City of
Fitchburg

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December 30, 2020

U. S. Environmental Protection Agency, Region 1
5 Post Office Square, Suite 100
Mail code OES04-04
Boston, Massachusetts 02109-3912
Attn: Neil Handler

Massachusetts D.E.P., CERO
8 New Bond Street
Worcester, MA 01606
Attn: David Boyer, P.E.

Subject: Transmittal Letter; Consent Decree, Remedial Measures
Part C. Wastewater Management Plan
Paragraph 56: December 31, 2020 Required WWMP Report Update

Dear Mr. Handler and Mr. Boyer,

Fitchburg DPW – Wastewater Division's consultant, Weston & Sampson Engineers (WSE), has made the complete, final, December 31st, 2020 required update submission of the City's Consent Decree required "Wastewater Management Plan" available by download from WSE's "Sharefile" portal:

https://sharefile.wseinc.com/message/7c47C50cdlCL0mapRrqbeH

As required by Paragraph 104 of the City's Consent Decree, on the following page, please find the required "***under penalty of law***" certification statement that corresponds to the subject "Wastewater Management Plan" report submission.

Printed, bound, hardcopies of the December 31st, 2020 required update submission of the "Wastewater Management Plan" will follow to you both.

Sincerely,

FITCHBURG DPW, WASTEWATER DIVISION

Jeffrey A. Murawski

Jeffrey A. Murawski, P.E.
Fitchburg DPW Deputy Commissioner of Wastewater

Electronic copy: (Transmittal letter only)
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"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Jeffrey A. Murawski

Jeffrey A. Murawski, P.E., DPW Deputy Commissioner Wastewater

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REPORT

December 2020

CITY OF
FITCHBURG
MASSACHUSETTS

Wastewater Management Plan
Phase II

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EXECUTIVE SUMMARY

In 2012, the City of Fitchburg entered into a Consent Decree (CD) with the United States Environmental Protection Agency (EPA) and the Massachusetts Department of Environmental Protection (MassDEP). As specified by the CD, the City is required to submit a Wastewater Management Plan (WMP) that addresses the following parameters (*United States, Commonwealth of Massachusetts v. City of Fitchburg,* 2012):

- An itemized schedule of construction of facilities needed to meet a seasonal phosphorus concentration limit of 0.2 mg/L and a seasonal total phosphorus mass-based limit of 20.7 lbs./day.
- An itemized schedule for investigation, rehabilitation, and construction work required for the collection system to meet the combined sewer overflow (CSO) conditions in the NPDES Permit by the end of 2030.

In addition to the initial submission, the City is required to submit two updated WMP reports in December 2020 and December 2023 that will include the following (*United States, Commonwealth of Massachusetts v. City of Fitchburg*, 2012):

- A description of all infrastructure improvements and programs that have been implemented during the previous period to comply with the conditions of the CD and meet the limits and conditions of the NPDES Permit.
- Cost of infrastructure improvements and programs implemented to date.
- Description of efforts planned for the next 3-year period.
- An assessment of the abatement anticipated to be achieved related to such efforts.

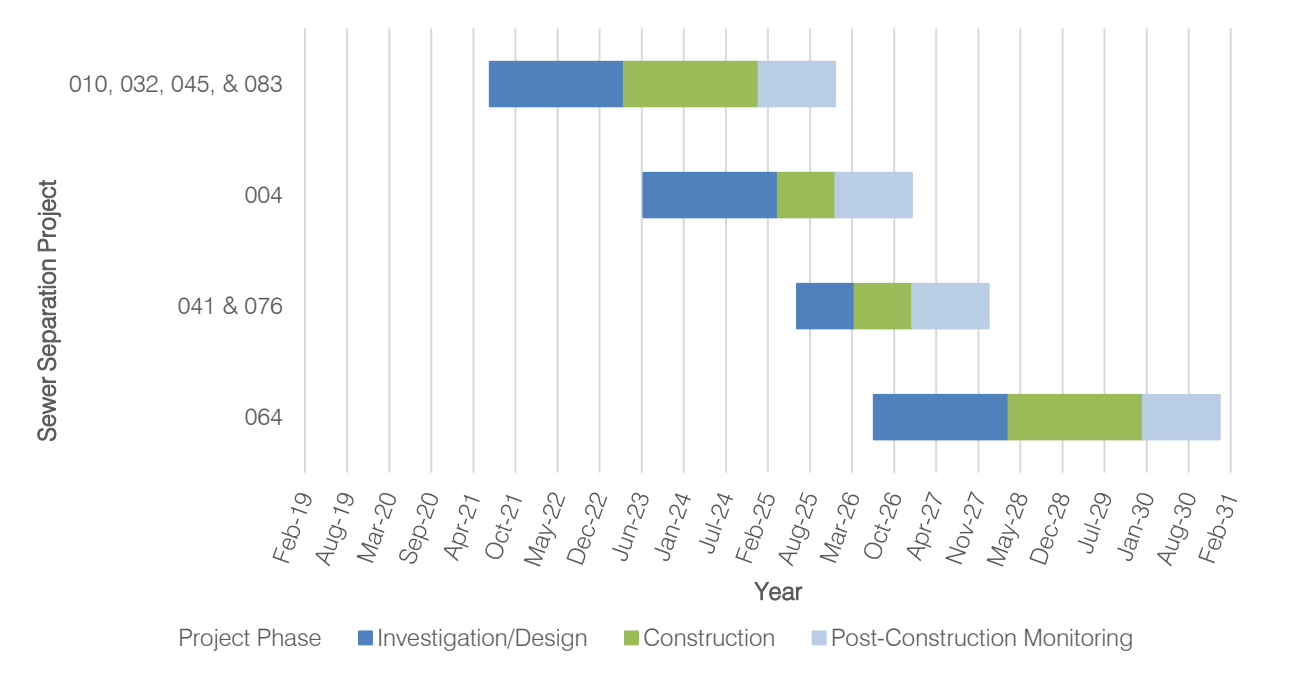
WASTEWATER MANAGEMENT PLAN PHASE I SUMMARY

Phase I of the WMP was submitted to EPA and MassDEP in May 2019. The Phase I report included the following items:

- Summary of major wastewater infrastructure studies and construction projects between 1999 and 2019.
- Summary of recent improvements to the Easterly Wastewater Treatment Facility (EWWTF) and an analysis of potential pollutants of concern.
- A CSO Long-Term Control Plan (LTCP).

After the analysis of the WMP and CSO LTCP, a schedule to meet the requirements of the CD was developed, including four sewer separation projects which will result in the closure of all remaining CSO regulators in the City. The schedule is as follows:

Proposed Sewer Separation Schedule			
CSO Separation Project	Investigation/Design	Construction	Post-Construction Monitoring
010, 032, 045, & 083	July 2021 – March 2023	April 2023 – December 2024	January 2025 – December 2025
004	July 2023 – March 2025	April 2025 – December 2025	January 2026 – December 2026
041 & 076	July 2025 – March 2026	April 2026 – December 2026	January 2027 – December 2027
064	July 2026 – March 2028	April 2028 – December 2029	January 2030 – December 2030



CITY WASTEWATER COLLECTION SYSTEM UPDATES

As required under the CD, the City was required to provide a description of all infrastructure improvements since the submittal of the WMP Phase I. In total, the City has spent $3,794,575 on infrastructure studies and improvements between 2019 and 2020. A table of the infrastructure improvements is provided on the following page:

Summary of Recent Wastewater Infrastructure Improvements		
Project	Date	Total Cost
Sewer System Evaluation Survey (SSES) Phase IV Interceptor Evaluation	January 2019 – February 2020	$484,000
Siphon/Various Sewer Heavy Cleaning and Inspection	July 2019 – December 2020	$452,925
Elm Street Sewer Repair	October 2020	$370,000
CSO 007, 011, 039, 048 Separation/Rehabilitation Investigation/Design	September 2018 – July 2020	$725,850
CSO 007, 011, 039, 048 Separation/Rehabilitation Construction*	November 2020 - Ongoing	$320,800
Combination Manhole Separation Program	May 2019 – December 2020	$650,000
Capacity, Management, Operation, and Maintenance Program (CMOM)	May 2019 – December 2020	$791,000
Total		**$3,794,575**

*Costs for construction include engineering oversight and construction billed through December 2020. The total estimated contract cost is $8,668,408 (including police details and engineering oversight).

The City has also been actively pursuing funding opportunities for upcoming infrastructure improvement projects through the MassDEP State Revolving Fund (SRF) and the Massachusetts Municipal Vulnerability Preparedness (MVP) Program. Moving forward, the City plans to continue pursuing various funding opportunities necessary to fund infrastructure improvement projects in order to meet the requirements of the CD.

PRELIMINARY PERFORMANCE RESULTS OF THE SECONDARY SYSTEM UPGRADES

In August 2020, the Secondary System Upgrades (SSU) were completed at the EWWTF. The improvements, when coupled with the chemically enhanced primary treatment (CEPT), were expected to greatly increase treatment capacity, as shown in the table below (Wright-Pierce, *POTW Optimization Evaluation of the Easterly Wastewater Treatment Facility*, 2012):

Projected Treatment Capacity Improvements from Secondary System Upgrades		
Seasonal Hourly Capacity	2012 Treatment Capacity	Projected Treatment Capacity with CEPT and SSU
Peak Hourly Capacity (June 1 – October 31)	15 MGD	32 MGD
Peak Hourly Capacity (November 1 – April 30)	15 MGD	40 MGD
Peak Hourly Capacity (May)	14 MGD	20 MGD

As part of the analysis of the SSU preliminary performance results, the following parameters were reviewed:

- Flow capacity without bypass
- Ammonia
- Total Suspended Solids (TSS)
- Biological Oxygen Demand (BOD)
- Escherichia Coli (E. coli)
- Total Phosphorus (interim discharge limits)
- Total Phosphorus (actual discharge limits)
- Total Recoverable Aluminum
- Total Recoverable Copper

It should be noted that between 2017 and 2020, the City performed construction work for the SSU that resulted in the system being taken partially offline. This resulted in increased effluent concentrations for ammonia, TSS, and BOD. Since the SSU was completed in August 2020, preliminary results indicate an improvement in treatment of ammonia, BOD, TSS, and flow capacity without the use of the secondary system bypass. A comparison of treatment capabilities for TSS and BOD during similar intensity storm events in 2016 and 2020 is shown in the table below:

Sample of TSS and BOD Treatment Capabilities						
Data	TSS			BOD		
	August 10, 2016	July 23, 2020	NPDES Permit Limit	August 10, 2016	July 23, 2020	NPDES Permit Limit
Rainfall (in)	1	0.9	-	1	0.9	-
Maximum Wastewater Flow (MGD)	26.58	25.3	-	26.58	25.3	-
Total Wastewater Flow (MGD)	7.26	6.75	-	7.26	6.75	-
Bypass Volume (MGD)	0.46	0.074	-	0.46	0.074	-
Influent Concentration (mg/L)	828	506	-	410	381	-
Influent Load (lbs./day)	50,134	28,485	-	24,825	21,448	-
Effluent Concentration (mg/L)	34.3	16.6	20	20.1	8.9	15
Effluent Load (lbs./day)	2,083	934	2,070	1,217	501	1,550
Removal Efficiency	95.85%	96.72%	85% (monthly average)	95.10%	97.66%	85% (monthly average)

Although preliminary performance results of the SSU indicate treatment capacity improvement, there has been only one month of data available between the completion of the SSU and the development of this WMP Report. The City plans to continue to monitor discharge parameters and will provide additional performance results in the WMP Phase III Report.

Following the conclusion of the SSU, the EWWTF did not initially meet the Interim Phosphorus Discharge Limit. However, it should be noted that the City was in the process of optimizing the new upgrades during this time. The City anticipates that further optimization will result in lower phosphorus discharge concentrations and will help the City consistently adhere to the Interim Phosphorus Discharge Limit. In Phase III of the WMP, the City should have substantial data to further evaluate the potential need for additional phosphorus treatment through either further system optimization or the construction of the Tertiary Phosphorus Removal Project.

Aluminum and copper effluent concentrations were also reviewed as part of the analysis, as both were identified as potential pollutants of concern in the WMP Phase I. After review of the preliminary performance results of the SSU, aluminum has not exceeded the current or future potential permit limits. However, copper effluent limits indicate the City may have issues meeting future copper discharge limits. Since the City has not received a new NPDES Permit, the City has not been able to recommend an increase to hardness levels when calculating the new limit.

CAPITAL IMPROVEMENT SCHEDULE UPDATE

As required in Paragraph 56 of the CD, Phase II of the WMP is required to provide a list of efforts planned for the next three-year period, and an assessment of the abatement anticipated to be achieved by such efforts (*United States, Commonwealth of Massachusetts v. City of Fitchburg*, 2012). In the next three (3) years, the City plans to commence the next two separation projects, complete construction for the CSO 007, 011, 039, 048 Separation/Rehabilitation Project, and continue combination manhole separations. A list of the upcoming projects is shown in the table on the following page:

Capital Improvement Schedule Update					
Project	Task	Budgeted Cost	Start Date	Projected End Date	Abatement
CSO 007, 011, 039, 048 Separation/Rehabilitation	Construction (including post-construction monitoring and engineering oversight)	$8,668,408*	November 2020	October 2023	CSO and I/I Mitigation
CSO 010, 032, 045, 083 Separation/Rehabilitation	Investigation	$1,048,700	July 2021	March 2023	-
	Design	$2,226,180	July 2021	March 2023	-
	Construction (including post-construction monitoring and engineering oversight)	$21,352,620	April 2023	December 2025	CSO and I/I Mitigation
CSO 004 Separation/Rehabilitation	Investigation	$694,900	July 2023	March 2025	-
	Design	$570,300	July 2023	March 2025	-
Combination Manhole Separation Program	Yearly Combination Manhole Separations (Construction)	$365,800	July 2021	June 2022	I/I Mitigation

*Cost is taken from the bid tabulation for the project.

The City also plans to integrate the combination manhole separation program with the upcoming combined sewer projects. This integration will help the City achieve an accelerated, cost-effective separation. In 2023, the City will provide further analysis on the success of the SSU and collection system improvements as part of the WMP Phase III Report.

1.0 INTRODUCTION

The City of Fitchburg, Massachusetts operates a 142-mile wastewater collection system that consists of 131 miles of sanitary sewers, 8.4 miles of combined sewers, 2.5 miles of force mains, and three (3) publicly owned pump stations. Wastewater in the City is treated at the Easterly Wastewater Treatment Facility (EWWTF), where effluent is discharged to the North Nashua River. The City currently has 11 combined sewer overflow (CSO) regulator manholes that discharge combined sewage (combined wastewater and stormwater) to the North Nashua River, Punch Brook, Birch Brook, and Falulah Canal. Discharges to waterbodies are regulated through the City's National Pollutant Discharge Elimination System (NPDES) Permit. A map of the sewer system is provided in Figure 1.

1.1 Consent Decree

In 2012, a Consent Decree (CD) was issued to the City of Fitchburg by the Environmental Protection Agency (EPA) and the Massachusetts Department of Environmental Protection (MassDEP) as a result of the City failing to meet the discharge requirements outlined in their 2010 NPDES Permit. The CD requires the City to perform remedial measures necessary to achieve compliance with the Clean Water Act (CWA) and state/federal regulations.

The CD required the following tasks to be completed (*United States*, *Commonwealth of Massachusetts v. City of Fitchburg*, 2012):

- Sewer System Operation and Maintenance Manual
- Long-Term Sewer System Preventative Maintenance Plan
- Assessment of Sewer System Maintenance Staff, Equipment, and Spare Parts Inventories
- Management, Operations, and Maintenance (MOM) Corrective Action Plan
- Priority Cleaning Plan Submittal
- Routine Cleaning Plan Submittal
- Annual GIS Mapping Updates
- Combination Manholes NPDES Permit Compliance
- Intermittent and Continuous Stream Connection Report
- Sanitary Sewer Evaluation Survey (SSES) Scope of Work and Investigation
- Annual Inspection Certification of CSO Outfalls
- Annual CSO Monitoring Reports
- Annual Itemized List of Weir Adjustments
- CSO Dry Weather Overflow Notifications
- Regulator 023 Closure Notification and CSO Separation Projects 2B, 3C, and 4D
- Post Construction Monitoring Plan and Report for CSO Separation Projects 2B, 3C, and 4D
- Emergency Response Plan Submittal
- Hydraulic Model and Capacity Assessment
- Wastewater Treatment Facility Phosphorus Upgrades
- *POTW Optimization Report for the Easterly Wastewater Treatment Facility* Upgrades
- Wastewater Management Plan (WMP)
- Illicit Discharge Detection and Elimination (IDDE) Report
- Falulah Brook Bank Stabilization Supplemental Environmental Project
- Sanitary Sewer Overflow (SSO)/Dry Weather Overflow Notifications and Reporting
- Semi-Annual Compliance Reports

1.2 Wastewater Management Plan

In May 2019, the City of Fitchburg submitted their WMP to EPA and MassDEP. The original submittal date for the WMP was July 1, 2018. However, due to delays in EPA's and MassDEP's approval of the City's Hydraulic Model, formal extension requests were requested to extend the deadline. The WMP was required to address the following items under the CD (*United States, Commonwealth of Massachusetts v. City of Fitchburg*, 2012):

- An itemized schedule of construction of facilities needed to meet a seasonal phosphorus concentration limit of 0.2 mg/L and a seasonal total phosphorus mass-based limit of 20.7 lbs./day.
- An itemized schedule for investigation, rehabilitation, and construction work required for the collection system to meet the CSO conditions in the NPDES Permit by the end of 2030.

In addition to the initial submission, the City is required to submit two updated WMP reports in December 2020 and December 2023 that will include the following (*United States, Commonwealth of Massachusetts v. City of Fitchburg*, 2012):

- A description of all infrastructure improvements and programs that have been implemented during the previous period to comply with the conditions of the CD and meet the limits and conditions of the NPDES Permit.
- Cost of infrastructure improvements and programs implemented to date.
- Description of efforts planned for the next three-year period.
- An assessment of the abatement anticipated to be achieved related to such efforts.

Since 2012, the City has made significant progress towards meeting the requirements of the CD. This WMP Phase II Report operates as a progress update for the original WMP. This report summarizes the improvements and programs the City of Fitchburg has completed between May 2019 and December 2020 and reviews preliminary performance results from the EWWTF's Secondary System Upgrades (SSU). In addition, this report identifies the City's anticipated schedule for tasks related to sewer separation projects for the next three (3) years, which were identified in the City's CSO LTCP in the first submittal of the WMP.

2.0 SUMMARY OF THE WASTEWATER MANAGEMENT PLAN PHASE I

The City of Fitchburg submitted Phase I of the WMP to EPA and MassDEP in May 2019. The WMP discussed historical improvements to the City's wastewater collection system and improvements to the EWWTF. In addition, the WMP included a CSO LTCP that developed a schedule to meet CSO conditions in the NPDES Permit and CWA by the end of 2030. Recommendations from the WMP Phase I Report are provided in Figure 2. Infrastructure improvements that have occurred between the submittal of the WMP Phase I Report and December 2020 are provided in Section 3 of this report. An updated schedule of infrastructure improvements planned between 2021 and 2023 is provided in Section 6 of this report.

2.1 Wastewater Collection System Summary and Analysis

The City of Fitchburg has been actively conducting investigation and construction projects as ongoing efforts to improve their wastewater collection system. A significant portion of the work has been conducted in the City's combined sewers, where the City has successfully separated over 10 miles of combined sewers and closed 47 CSO regulators through their combined sewer separation projects. The City has also implemented a SSES program, with the goal to evaluate and rehabilitate sanitary sewers in their wastewater collection system.

2.1.1 Sewer System Evaluation Survey and Investigation Projects

Between 1999 and 2018, the City of Fitchburg had successfully inspected 88% of the sanitary and combined sewers in the City and 43% of the City's sewer manholes through their capacity, management, operations, and maintenance (CMOM) program. A summary of the SSES and investigation projects are listed in Table 1. A more detailed description of each project is provided in the WMP Phase I Report.

Table 1: Historic SSES and Investigation Projects			
Year	Project	Type of System	Description of Work
1999	CSO Master Plan	Combined	Modeling of combined sewer system
2002	CSS 1, 2, and 3	Combined	17,143 LF of television inspections, 137 manhole inspections, and 26,282 LF of smoke testing
2011	City-Wide I/I Analysis	Sanitary/ Combined	City-wide flow metering
2012	John Fitch Highway Investigations	Sanitary	7,725 LF of television inspections, 30 manhole inspections, and 7,725 LF of smoke testing
2012	CSS 4D	Combined	24,000 LF of television inspections, 128 manhole inspections, and 40,000 LF of smoke testing
2015	Beech and Hazel Street Separation	Combined	4,880 LF of television inspection, 37 manhole inspections, and 8,000 LF of smoke testing
2016	SSES Scope of Work	Sanitary	City-wide flow metering
2018	Hydraulic Model	Sanitary/ Combined	City-wide modeling for pipes 12-inches in diameter and larger and 870 manhole inspections
2018	SSES Phase I	Sanitary	35,800 LF of television inspections, 566 manhole inspections, 130,000 LF of smoke testing, 31 dye tests, 184 building inspections, and flow isolation
2018	SSES Phase II	Sanitary	56,520 LF of television inspections, 399 manhole inspections, 28,150 LF of smoke testing, 6 dye tests, 94 building inspections, and flow isolation
2011-2018	CMOM Program	Sanitary/ Combined	Ongoing CMOM efforts resulted in 661,020 LF (88%) of sewers and 1,546 (43%) of manholes inspected (including above projects)

2.1.2 Sewer Separation and Rehabilitation Projects

The City has conducted four (4) major sewer separation projects, with the first concluding in 2009. In addition, the City has conducted multiple sewer rehabilitation projects to remove I/I in the wastewater collection system. A summary of the projects is proved in Table 2. A more detailed description of each project is provided in the WMP Phase I Report.

Table 2: Historic Sewer Separation and Rehabilitation Projects			
Year	Project	Type of System	Description of Work
2009	CSS-1, 2, and 3	Combined	Construction of new drains and catch basins to separate approximately 12,000 LF of combined sewers
2012	CSS 2B and 3C	Combined	Installation of 11,780 LF of storm drains and 115 catch basins/storm inlets to close 10 CSO regulators
2012	Jeffrey Street Extraneous Flow Removal	Sanitary	Removal of sump pumps and a perforated drain to remove 445,000 gpd of I/I
2014	Nashua River Manhole Rehabilitation	Sanitary	Repair of trunk sewer manholes in the North Nashua River that contributed a combined 17-22 MGD of inflow after being dislodged
2014	Drury Street Easement Rehabilitation	Sanitary	Rehabilitation of a 300 LF pipe that was contributing 25,000 gpd of infiltration
2015	John Fitch Highway Investigations	Sanitary	Sewer replacement on John Fitch Highway to mitigate 942,900 gpd of I/I
2015	CSS 4D	Combined	25,000 LF of sewer separation that resulted in the closure of CSO 072, 024, and 033
2017	Beech and Hazel Street Separation	Combined	4,000 LF of sewer separation

2.1.3 Hydraulic Model and Capacity Assessment

In 2016, a hydraulic model of the wastewater collection system was developed for the City using existing GIS data and manhole inspection data. The model outputs included dry weather flow; flow during the one-year, 24-hour design storm; flow during the five-year, 24-hour design storm; and outputs for the three flow conditions under a 20-year estimated build-out scenario.

In 2018, a draft Capacity Assessment was developed using the model to analyze various theoretical remediation projects. The improvements estimated a 70% reduction of CSO discharge volumes. However, water quality goals would still not be met through these improvements since CSO discharges would still occur. As a result, recommended CSO remediation projects were identified through a CSO LTCP, which was developed under the WMP Phase I Report.

2.2 Easterly Wastewater Treatment Facility Summary and Analysis

In 2012, the POTW Optimization Evaluation of the Easterly Wastewater Treatment Facility Report recommended upgrades to the City's EWWTF. Following the report recommendations, the City began construction of the chemically enhanced primary treatment (CEPT) upgrade and secondary system upgrades (SSU). In March 2019, the City completed the CEPT upgrade, and began construction for the SSU project in 2017. The SSU Project will discussed further in Sections 4 and 5 of this report.

2.2.1 Flow and Loads Analysis

As part of the WMP Phase I Report, a flow and loads analysis was conducted to identify potential future NPDES Permit limits that may result in the City's noncompliance with discharge requirements. Pollutants of concern were reviewed to determine Fitchburg's compliance using the City's NPDES and Toxicological Reports that are submitted under the City's NPDES Permit. For the analysis, the 2015-2018 reports were used. The following pollutants of concern were reviewed:

- Copper
- Nickel
- Zinc
- Aluminum
- Lead
- Cadmium
- Ammonia
- Total Phosphorus
- Total Residual Chlorine
- Escherichia coli (E. coli)
- Biochemical Oxygen Demand (BOD)
- Dissolved Oxygen (DO)

Potential pollutants of concern were identified following the conclusion of the analysis and are listed in Table 3. The table also identifies the regulatory approaches that are available for each pollutant in order to develop site specific limits that may be considered at the time of the issuance of a new NPDES Permit:

Table 3: Theoretical Regulatory Compliance Options

Pollutant of Concern	Hardness	CT	WER	BLM	MZ-DF	pH/Temp	Concern
Copper	X	X	X	X	X	X	Medium
Nickel	X	X	X		X		No Concern
Zinc	X	X	X		X		Low
Aluminum	X		X		X	X	Low
Lead	X	X	X		X		Low
Cadmium	X	X	X		X		Low
Ammonia					X	X	Low
Total Phosphorus					X		Medium
Total Residual Chlorine					X		Low

As shown in Table 3, the pollutants of most concern for the EWWTF are total phosphorus and copper. This table evaluates chemicals of concerns that have water quality based effluent limits (WQBELs). WQBELs are established for specific parameters based on an evaluation of a facility's discharge and the impact that it has on the receiving water. If there is reasonable potential that the discharge may cause an exceedance to water quality standards, a WQBEL is developed. The parameters with WQBELs upon which the theoretical regulatory compliance options may apply are included in Table 3.

Table 3 also summarizes potential regulatory compliance options the City may utilize to meet more stringent NPDES Permit conditions in the future, if necessary. These include a Mixing Zone – Dilution Factor (MZ-DF), Chemical Translator (CT), Water Effect Ratio (WER), and Biotic Ligand Model (BLM), along with hardness and pH/temperature adjustments. EPA recommends regulatory tools to develop site-specific criteria for chemicals of concern. As stated in the WMP Phase I Report, the site-specific regulatory tools applicable to Fitchburg include the CT, WER, and BLM.

Chemical Translator

Water quality standards for most metals are derived as dissolved metals. However, permit limits are issued as total metals. Unless a special study is done, agencies often will conservatively assume these concentrations are the same. The CT is a conversion factor used to adjust permit limits. The CT is calculated as a ratio between the total metal limit specified in a NPDES Permit and the presence of dissolved metals in an effluent. This ratio is then used to develop a site-specific discharge limit for metals.

Site Specific Criteria - Water Effect Ratio (WER)

U.S. EPA's WER procedure is designed to quantify the toxicity of dissolved metal concentrations. This is done by conducting laboratory toxicity tests where test organisms are exposed to reagent grade metal in site water and comparing the results to tests where the organisms are exposed to reagent grade metal in pure laboratory water. The ratio of those two toxicity test results (Receiving Water/Lab Water) is the Water Effect Ratio value, which is then used as a multiplier in total recoverable permit limit calculations.

Biotic Ligand Model (BLM) for Copper

This approach is a metal bioavailability model that uses receiving water characteristics to develop site-specific water quality criteria. Input data for the BLM include temperature, pH, dissolved organic carbon (DOC), major cations (calcium, magnesium, sodium, and potassium), major anions (sulfate and calcium), alkalinity, and sulfide. DOC is the most influential of these parameters.

In addition to pollutants, wastewater flow was determined to be a concern in the City since the combined sewers introduce significant inflow during wet-weather events. Significant wet-weather events have historically resulted in the City utilizing a permitted secondary system bypass. In pursuit of sewer separation, the City is expecting to significantly reduce wastewater flows in the wastewater collection system during wet-weather events.

Based on the results of the flow and loads analysis in Phase I of the WMP, the City intended to perform the following actions in advance of the next NPDES Permit cycle:

1. After completion of the SSU project, re-evaluate the need for additional process improvements for meeting phosphorus limits as required by the NPDES Permit.
2. Evaluate merits of hardness adjustment at the EWWTF to a value greater than the previously determined receiving water hardness concentration of 56 mg/L.
3. Explore criteria adjustments using one of EPA's procedures, where applicable: Biotic Ligand Model, Chemical Translator, or Water Effect Ratio to recalculate permit limits.

2.3 CSO Long-Term Control Plan

The CSO LTCP was submitted to MassDEP and EPA as an appendix of the WMP Phase I Report. The primary purpose of the CSO LTCP was to establish the City's plan to mitigate CSO discharges to the North Nashua River by 2030. The City's combined sewer system is approximately 8.4 miles in length and contains 11 CSO regulator manholes that discharge to the North Nashua River, Punch Brook, Birch Brook, and Falulah Canal during wet-weather events. Since 1995, the City has made significant progress towards mitigating CSO discharges through over 10 miles of combined sewer separation and the closure of 47 CSO regulators. As part of the CSO LTCP, the City evaluated state and federal requirements for CSO mitigation for the remaining 11 CSO regulators.

2.3.1 EPA's Nine Minimum Controls

EPA's Nine Minimum Controls (NMC) are CSO controls that are implemented to reduce the impacts of CSO discharges into a receiving waterbody. The controls are documented in EPA's *Combined Sewer Overflows Guidance for Nine Minimum Controls* and are listed below (EPA, *Combined Sewer Overflows Guidance for Nine Minimum Controls*, 1995).

1. Proper operation and regular maintenance programs for the sewer system and CSO outfalls.
2. Maximum use of the collection system for storage.
3. Review and modification of pretreatment requirements to ensure that CSO impacts are minimized.
4. Maximization of flow to the publicly owned treatment works (POTW) for treatment.
5. Elimination of CSO's during dry weather.
6. Control of solid and floatable materials in CSOs.
7. Pollution prevention programs to reduce contaminants in CSOs.
8. Public notification to ensure that the public received adequate notification of CSO occurrences and CSO impacts.
9. Monitoring to effectively characterize CSO impacts and the efficacy of CSO controls.

To date, the City has been actively working to fulfill the requirements of the NMC. As part of the CSO LTCP, the City reviewed its compliance with the NMC and developed additional tasks to assist meeting all nine (9) controls. As listed in Phase 1 of the WMP, the City intended to perform the following actions:

1. Optimize their wastewater collection system capacity by investigating the options available to adjust pump station discharges and water treatment plant backwash operations to mitigate discharges during wet weather events.
2. Implement a more aggressive catch basin cleaning program to achieve greater functionality during wet weather events.
3. Investigate developing a public notification system for CSO events.

2.3.2 Evaluation of Sewer Separation, Economic Impacts, and Schedule

MassDEP requires that municipalities must perform sewer separation as the primary CSO control method, unless proven to have "substantial and widespread social and economic impacts" (MassDEP *Guidance for Abatement of Pollution from CSO Discharges*, 1997). As a result, the City performed an economic analysis in accordance with EPA's *Economic Guidance for Water Quality Standards* to determine the economic impact of sewer separation. The results of the analysis are as follows:

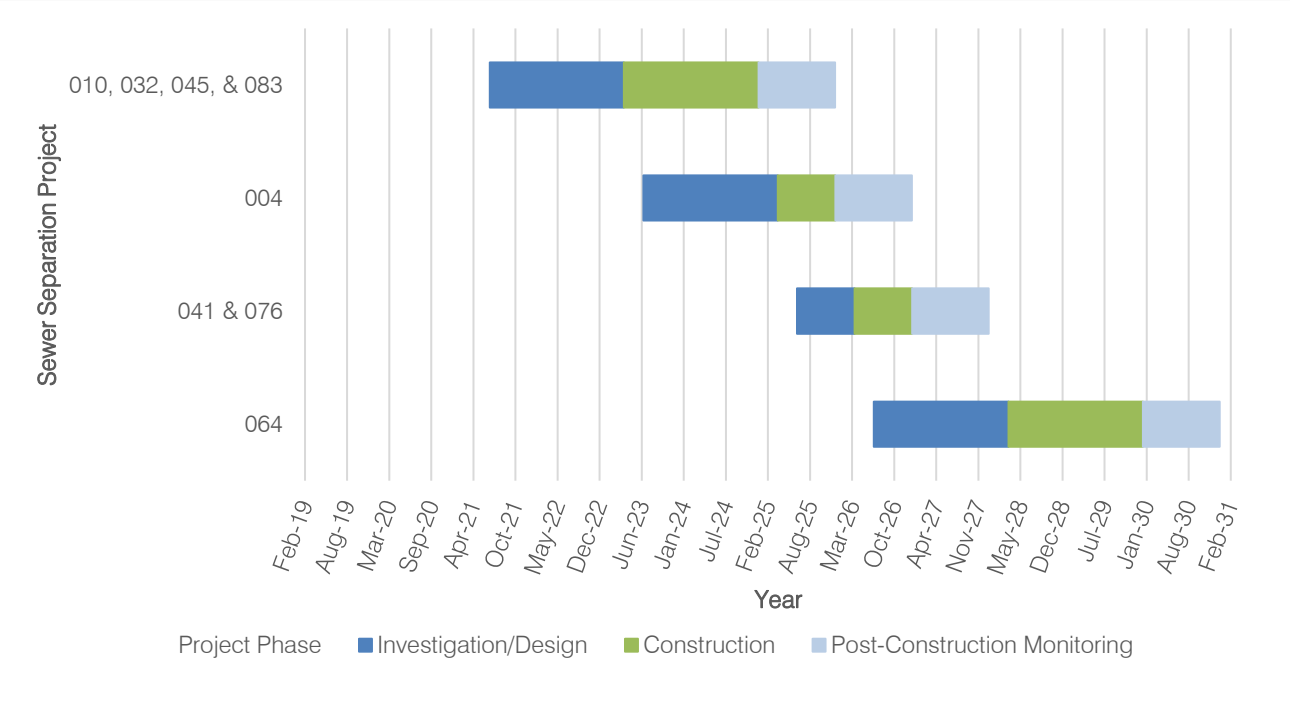
Table 4: Fitchburg Wastewater Financial Capabilities for Sewer Separation	
Fitchburg Wastewater Costs	Value
Total Cost of Sewer Separation	$37,895,400
Annualized Sewer Separation Cost (20 Years)	$2,319,200
Current Cost of Pollution Control (2019-2028 Average)	$15,353,180
Adjusted Cost of Pollution Control	$17,672,380
Household Percentage of Cost of Pollution Control (67%)	67%
Number of Households	14,336
Number of Connections	10,127
Cost Per Household	$826
Cost Per Connection	$1,169
Median Household Income (2019-2028 Average)	$57,040
Average Municipal Preliminary Screener Score (Household)	**1.4%**
Average Municipal Preliminary Screener Score (Connection)	**2.0%**

Based on the Municipal Preliminary Screener Score and the City's calculated Secondary Score of 2.67, sewer separation was determined to not have a significant economic impact on the City. To fully evaluate the economic impacts of sewer separation, the City conducted a more in-depth economic analysis using estimated water usage through their rate study. After completing the analysis, the estimated wastewater expenditures were found to exceed 2% in Fiscal Year 2022 and exceed 3% by Fiscal Year 2028. Fitchburg's 18.5% poverty rate is significantly higher than the 10.5% Massachusetts state-wide poverty rate, indicating that the current proposed schedule is not affordable for the City.

To adhere to the December 31, 2030 deadline to meet CSO discharge requirements specified in the CD and achieve the largest environmental benefit, the City adjusted their Capital Improvement Plan (CIP) to prioritize the proposed sewer separation projects. Under the adjustments, the City plans to conduct the Tertiary Phosphorus Removal Project at the EWWTF, if determined necessary, after the conclusion of the sewer separation projects. The City was currently meeting the interim phosphorus discharge limits required by the CD, and the SSU included improvements for phosphorus removal. As a result, the City determined sewer separation would result in the highest environmental benefit. This proposed schedule would still exceed a 2% screener score according to the City's in-depth rate analysis but was determined to be more affordable for economically sensitive populations in the City.

Following the completion of the economic analysis, the City developed an aggressive sewer separation project schedule to complete CSO mitigation prior to the end of 2030, as shown in Table 5.

Table 5: Proposed Sewer Separation Schedule			
CSO Separation Project	Investigation/Design	Construction	Post-Construction Monitoring
010, 032, 045, & 083	July 2021 – March 2023	April 2023 – December 2024	January 2025 – December 2025
004	July 2023 – March 2025	April 2025 – December 2025	January 2026 – December 2026
041 & 076	July 2025 – March 2026	April 2026 – December 2026	January 2027 – December 2027
064	July 2026 – March 2028	April 2028 – December 2029	January 2030 – December 2030



2.3.3 Post-Construction Monitoring Plan

Following the completion of each sewer separation project, the City plans to conduct post-construction monitoring in accordance with their EPA approved Post-Construction Monitoring Plan (PCMP) and EPA's 2012 *CSO Post Construction Compliance Monitoring Guidance*. As part of the PCMP, the City planned to conduct post-construction flow monitoring of the separated sewers, and outfall sampling on outfalls operating in the new stormwater collection system created as a result of sewer separation. The City identified the following parameters for sampling:

- pH
- Temperature
- Dissolved Oxygen
- Total Chlorine
- Salinity
- Conductivity
- Surfactants
- Ammonia
- E. coli
- Enterococcus

3.0 CITY WASTEWATER COLLECTION SYSTEM UPDATES

Following the submittal of Phase I of the WMP in May 2019, the City of Fitchburg has completed multiple sewer investigation and rehabilitation projects, and continued their Capacity, Management, Operation, and Maintenance Program (CMOM). In addition, the City has been actively pursuing funding opportunities for sewer separation and rehabilitation projects.

3.1 Recent Infrastructure Improvements

Although Phase I of the WMP and the CSO LTCP strategically target the combined sewer system in the City of Fitchburg, the City has conducted investigation and rehabilitation projects in the City's sanitary sewer system, including Phase IV of their SSES. In addition, the City completed the investigation and design for its next sewer separation project, the CSO 007, 011, 039, 048 Separation/Rehabilitation Project. Table 6 identifies the costs for recent projects incurred by the City. Recent infrastructure improvements are also shown in Figure 3.

Table 6: Summary of Recent Wastewater Infrastructure Improvements

Project	Date	Total Cost
Sewer System Evaluation Survey (SSES) Phase IV Interceptor Evaluation	January 2019 – February 2020	$484,000
Siphon/Various Sewer Heavy Cleaning and Inspection	July 2019 – December 2020	$452,925
Elm Street Sewer Repair	October 2020	$370,000
CSO 007, 011, 039, 048 Separation/Rehabilitation Investigation/Design	September 2018 – July 2020	$725,850
CSO 007, 011, 039, 048 Separation/Rehabilitation Construction*	November 2020 - Ongoing	$320,800
Combination Manhole Separation Program	May 2019 – December 2020	$650,000
Capacity, Management, Operation, and Maintenance Program (CMOM)	May 2019 – December 2020	$791,000
Total		**$3,794,575**

*Costs for construction include engineering oversight and construction billed through December 2020. The total estimated contract cost is $8,668,408 (including police details and engineering oversight).

3.1.1 Sewer System Evaluation Survey (SSES) Phase IV Interceptor Evaluation

In the Spring of 2019, the City conducted the fourth phase of their SSES. Under this project, the City performed multi-sensor inspections on approximately 31,144 LF of interceptor sewers ranging in diameter from 18-inch to 48-inch. The City prioritized Phase IV over Phase III due to the criticality of the wastewater interceptor. Included in the multi-sensor inspections were CCTV, laser, sonar, and hydrogen sulfide inspections. In addition, the City successfully conducted 138 manhole inspections, smoke testing of 17,500 LF of sewers, and 60 building inspections for a total cost of $484,000.

As a result of the inspections, the City identified five (5) sump pumps connected to the sewer system, and five (5) catch basins connected to the sewer system through smoke/dye testing. The City also prioritized rehabilitation based on critical defects identified during the inspections. In total, an estimated $14,700,000 of sewer pipe, manhole, and inflow rehabilitation was recommended as a result of the inspections.

3.1.2 Siphon/Various Sewers Heavy Cleaning and Inspection

In June 2020, the City advertised their Siphon/Various Sewers Heavy Cleaning and Inspection Project for public bid. The goal of the project was to clean and inspect the five (5) siphons in the City in addition to sewers upstream and downstream of each siphon and sewers previously identified with heavy debris on Airport Road. The heavy cleaning and inspections commenced in June 2020 and were completed in October 2020.

During the cleaning/inspection, an estimated 284 cubic yards of debris was removed from the wastewater collection system. In addition, a condition assessment was performed for each siphon barrel and sewer inspected. An estimated $881,000 of high priority sewer rehabilitation was recommended as a result of the condition assessment. In total, the City spent $452,925 for the Siphon/Various Sewers Heavy Cleaning and Inspection. The total cost of the project and the recommended rehabilitations do not include the emergency cost to replace the two sections of sewer on Elm Street sewer, which is discussed under Section 3.1.3.

3.1.3 Elm Street Sewer Repair

During the Siphon/Various Sewers Heavy Cleaning and Inspection Project, significant pipe degradation was observed in two 26-inch by 39-inch brick sewers on Elm Street. The pipes were missing significant brick work near the invert and were at risk of immediate collapse. As a result, the City utilized their on-call contractor to replace the sewers with 36-inch PVC pipe. The repairs were completed in September 2020. A total of $370,000 was spent on the construction of the repairs.

3.1.4 CSO 007, 011, 039, 048 Separation/Rehabilitation

In August 2018, the City of Fitchburg executed a contract with Weston & Sampson for the investigation and design of the CSO 007, 011, 039, 048 Separation/Rehabilitation Project, with the goal of closing CSO regulators 007, 039, and 048. The design of the project included the separation of approximately 4,800 LF of combined sewers through the installation of 4,850 LF of new PVC sewers and 2,700 LF of new HDPE drains. In addition, approximately 2,100 LF of existing sewers were recommended for replacement and 20,000 LF of sewers were recommended for rehabilitation to repair structural defects and reduce I/I in the project area. Drains in the project area were designed to function properly during the 2070 10-year, 24-hour storm event, which allowed the City to apply for funding through the Massachusetts Municipal Vulnerability Preparedness (MVP) Program. The project was advertised for public bid in July 2020, and construction commenced in November 2020. Construction is estimated to be completed prior to the end of 2022, with post construction monitoring and sampling concluding one year later. In total, the City spent $725,850 on the investigation and design, and the construction is expected to cost $8,668,408 (including police details and engineering oversight).

3.1.5 Combination Manhole Separation Program

The City currently has 178 known combination manholes that are part of the City's wastewater and stormwater collection systems. As stated in the City's NPDES Permit, combination manholes are required to be separated if there are signs of transference between the wastewater and stormwater collection systems. In 2019, the City executed a contract with Weston & Sampson to conduct manhole inspections and design the separation of 150 combination manholes with known signs of transference. Draft preliminary designs for the combination manhole separations were provided to the City and are currently under review. The City has allocated funding to perform separations each year and are actively separating combination manholes throughout the City. In 2020 alone, the City separated 22 combination manholes for an estimated cost of $300,000. In addition, the City will separate 17 combination manholes as part of the CSO 007, 011, 039, 048 Separation/Rehabilitation. Moving forward, the City plans to integrate the combination manhole separation program with the remaining combined sewer separation program to achieve an accelerated, cost-effective separation of combination manholes upstream of combined sewers.

3.1.6 Capacity, Management, Operation, and Maintenance Program (CMOM)

As of August 2020, the City's in-house staff, consultants, and subconsultants have successfully inspected approximately 93% of sewers and 57% manholes. This was an increase from an estimated 88% of the sewers and 43% of the manholes reported in the WMP Phase I Report. Since the remaining sewers requiring inspection are beyond in-house capabilities, the City has begun reinspecting sewers in the collection system. The remaining sewers will be inspected in future sewer inspection/rehabilitation projects. Many of the remaining uninspected sewers in the downtown area will be inspected during the City's next sewer separation project, the CSO 010, 032, 045, 083 Separation/Rehabilitation Project.

3.2 Pursuit of Funding Opportunities

To date, the City has invested over an estimated $68 million in the wastewater collection system and wastewater treatment facility improvements in order to comply with the conditions of the CD. The City is anticipating an additional $62 million of infrastructure improvements to close all remaining CSO regulators through the separation of all remaining combined sewers. The City has been actively searching for funding opportunities in order to help fund the required infrastructure improvements.

3.2.1 State Revolving Fund Loan Program for Sewer Separation

The City is anticipating that the majority of funding for the remaining infrastructure improvements will be through the MassDEP State Revolving Fund (SRF) Loan Program. Many of the previous infrastructure improvement projects required under the CD were also funded through this program. In addition, the City's ongoing sewer separation project, the CSO 007, 011, 039, 048 Separation/Rehabilitation Project, is funded through the SRF Loan Program.

In August 2020, the City submitted a SRF Project Evaluation Form for the investigation phase of the City's next sewer separation project – the CSO 010, 032, 045, 083 Separation/Rehabilitation Project. The investigation will include the television inspection/review of 60,600 LF of sewers, 425 manhole/catch basin inspections, 60,600 LF of smoke testing, dye testing/flooding, 910 building inspections, and the development of an SSES report in accordance with MassDEP's *Guidelines for Performing Infiltration/Inflow Analyses and Sewer System Evaluation Surveys (May 2017)*. The total estimated cost of the investigation phase of the project is $1,048,700. If the project is included on MassDEP's 2021 Intended Use Plan (IUP), the investigation is expected to begin in July 2021. Moving forward, the City plans to continue to utilize SRF funding in order to finance sewer separation projects.

3.2.2 Municipal Vulnerability Preparedness Program

MVP funding was targeted as a method of funding for stormwater improvements recommended in the CSO 007, 011, 039, 048 Separation/Rehabilitation Project. As part of the requirements for MVP funding, stormwater improvements were designed to function during the 2070 10-year, 24-hour storm event. Unfortunately, the City did not receive funding under the program for this project. However, the City received MVP funding for a separate stormwater project in the John Fitch Highway area of the City.

Moving forward, the City is planning to apply for MVP funding, if available and applicable, for future sewer separation projects. This will also coincide with City's goal to implement green infrastructure, if applicable and feasible, as identified in the CD.

4.0 SECONDARY SYSTEM UPGRADES

In January 2012, recommendations for improvements to the EWWTF were provided in the *POTW Optimization Evaluation of the Easterly Wastewater Treatment Facility* Report. Recommendations in the report were made enforceable by the EPA under Paragraph 53 of the CD. The report recommended three major upgrades to the EWWTF:

- Chemically Enhanced Primary Treatment (CEPT) Upgrade
- Secondary System Upgrades (SSU)
- Tertiary Phosphorus Removal Project

A map of the EWWTF is provided in Figure 4. A summary of each of the three (3) recommended projects in the *POTW Optimization Evaluation of the Easterly Wastewater Treatment Facility* Report was provided in the WMP Phase I Report. As of August 2020, both the CEPT Upgrade and the SSU Project have been completed.

The implementation of the Tertiary Phosphorus Removal Project is dependent on the success of the SSU at meeting the City's NPDES Permit. As a result, an evaluation of the SSU is a critical component of this report and Phase III of the Wastewater Management Plan. Components of the SSU are discussed below and the SSU preliminary performance results are discussed in Section 5 of this report.

4.1 Components of the SSU Project

The primary goals of the SSU were to increase the peak flow capacity of the secondary system and raise the hydraulic grade in the second stage system to allow gravity flow through the future tertiary solids removal process (Wright-Pierce, *POTW Optimization Evaluation of the Easterly Wastewater Treatment Facility*, 2012). The specific upgrades are listed below, provided in Figure 5, and are detailed in the 2012 *POTW Optimization Evaluation of the Easterly Wastewater Treatment Facility*.

- Main Distribution Structure
  - Addition of distribution baffles
- First Stage Aeration Basins
  - Replacement of two first stage aeration blowers
  - Replacement of adjustable weirs at the outlet with fixed weirs
  - Installation of selector zones
  - Replacement of flap style relief valves with duckbill valves
- First Stage Clarifier
  - Replacement of first-stage clarifier mechanism and rehabilitation of the concrete
  - Replacement of flap style relief valves with duckbill valves
- Second Stage Aeration Basins
  - Replacement of second stage aeration blowers
  - Installation of fixed weirs and raising of the launder walls at the outlets
  - Installation of selector zones
  - Replacement of flap style relief valves with duckbill valves
- Second Stage Clarifier
  - Replacement of two second-stage clarifier mechanisms and construction of new launders at the outside wall
  - Replacement of flap style relief valves with duckbill valves

- First Stage Pump Galleries
  - Replacement of waste activated sludge (WAS) pumps and variable frequency drive (VFD)
  - Replacement of skimmings pumps
  - Upgrade of motor control centers (MCCs)
  - Modifications to the heating and ventilations systems and roofing
  - Replacement of City Process water piping
- Second Stage Pump Galleries
  - Replacement of WAS pumps and VFD
  - Replacement of skimmings pumps
  - Replacement of effluent flow meter
  - Modification of piping
  - Upgrade of MCCs
  - Modification to the heating and ventilations systems and roofing
- Blower Building
  - Upgrade of MCCs
- Boiler Room
  - Replacement of city water meters
- Air Pollution Control Building
  - Replacement of city water meters
- Underdrain Wetwells
  - Replacement of all submersible pumps and controls
- Return Activated Sludge (RAS) Pumping
  - Replacement of the first and second stage RAS pumps, VFDs, and flow meters
- Secondary Bypass
  - Replacement of hypochlorite feed pumps for the secondary bypass
- Basin Drain Pump Station/Wetwell
  - Upgrade of controls for the basin drain pump station
  - Replacement of RAS pump
- Generator and Switchboard Room
  - Upgrade emergency power system to handle secondary system
- Chlorination Building
  - Upgrade of the control system for bi-sulfate addition
- Control Systems
  - Upgrade of the SCADA and controls for the SSU

The total cost of the SSU was $24,075,000. Substantial completion of the SSU was achieved in Spring 2020, with final warranty repairs completed in August 2020. Following the conclusion of the SSU Project, the full treatment capacity of the EWWTF was restored.

4.2 Performance of the SSU Project

Initial performance results of the SSU Project, while only fully online for one month prior to the development of this WMP Report, indicate improvements in both capacity and treatment. Following the completion of the SSU Project in August 2020, the City was able to commence gathering performance data in order to evaluate the success of the SSU Project and identify future projects to help achieve compliance with the City's NPDES Permit. Preliminary performance results of the SSU Project are discussed in Section 5 of this report.

5.0 SSU PRELIMINARY PERFORMANCE RESULTS

The SSU Project was completed in August 2020, with the upgrades expected to increase the flow capacity of the secondary system. In addition, SSU performance results may determine the need for future improvements to meet discharge requirements of the City's NPDES Permit. Preliminary performance results of the SSU will be primarily based on the City's current NPDES Permit, and the EWWTF's ability to meet the NPDES Permit discharge limits. The primary limits that the SSU addressed include the following:

- Flow capacity without bypass
- Ammonia
- Total Suspended Solids (TSS)
- Biological Oxygen Demand (BOD)
- Escherichia Coli (E. coli)
- Phosphorus (interim discharge limits)
- Phosphorus (actual discharge limits)

In addition, the preliminary performance results also review potential pollutants of concern from the WMP Phase I Report that may appear in a future NDPES Permit, including:

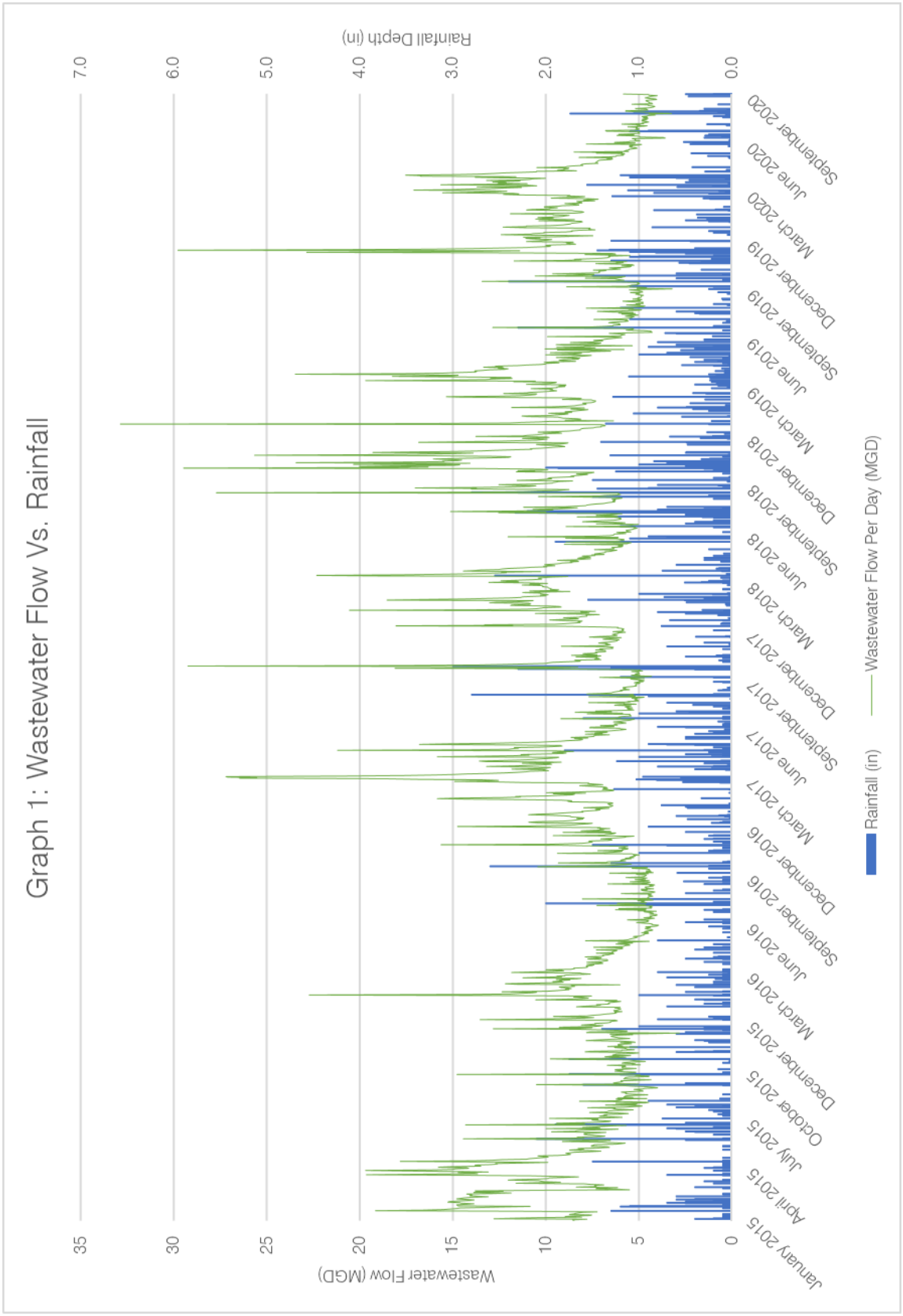
- Total Recoverable Aluminum
- Total Recoverable Copper

Each permit limit and pollutant of concern are analyzed based on the actual permit limit, average monthly and daily discharge values before the SSU Project, and actual discharge values following the completion of the SSU Project. It should be noted that the results of the SSU Project are preliminary.

The City will be optimizing their system to maximize the effectiveness of wastewater treatment at the EWWTF in the next few months. The permit parameters will continue to be analyzed after the system is optimized and more data is collected. A more comprehensive dataset will further characterize the performance of the SSU in regard to the NPDES Permit parameters.

5.1 Flow Capacity

Fitchburg's combined collection system upstream of the EWWTF contributes significant wastewater flow during rain events. Since 2015, the total daily flow rate at the EWWTF has reached 29 MGD in October 2017 and November 2018. During these total daily flow rates, peak flow rates were observed exceeding 36 MGD. Significant rain events exceeding 2.0 inches of rainfall occurred during these days of elevated flow rates. A graph of daily wastewater flow rates at the EWWTF between 2015 and 2020 is shown on the following page.

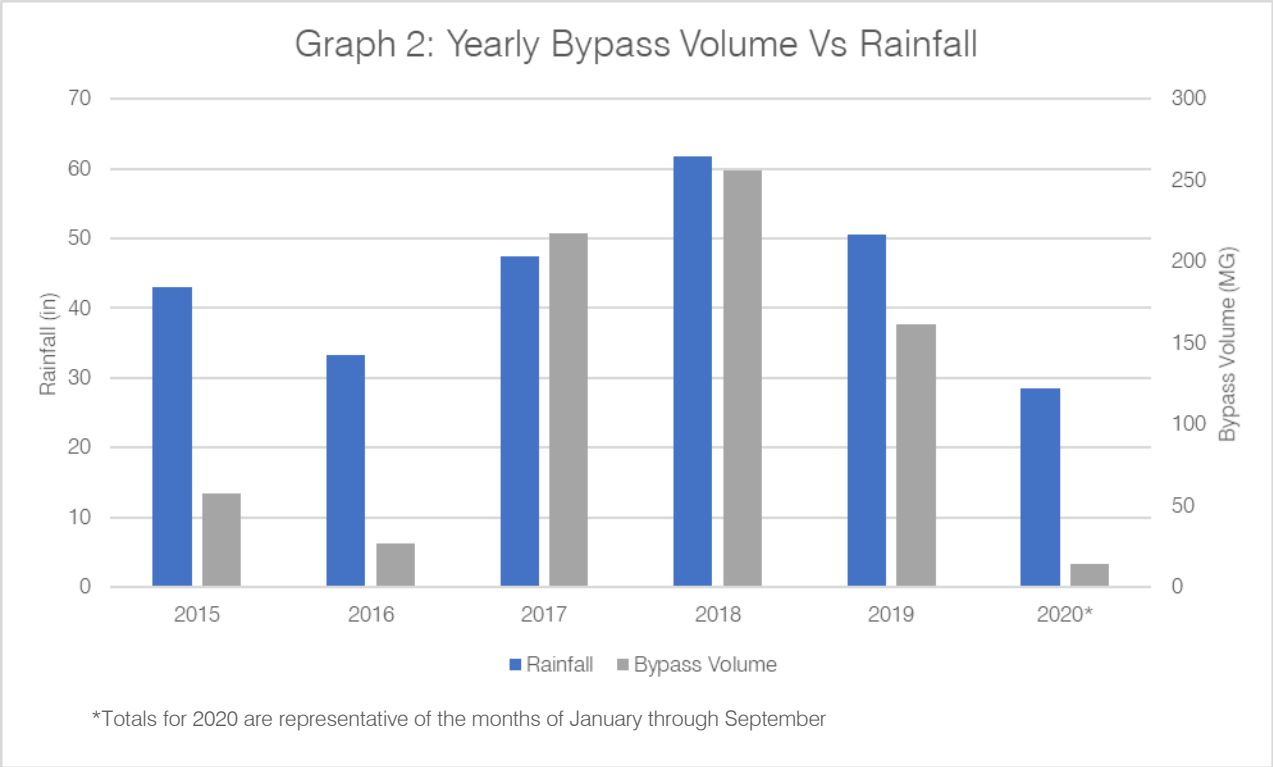

Graph 1: Wastewater Flow Vs. Rainfall
Rainfall Depth (in)
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
Wastewater Flow (MGD)
35
30
25
20
15
10
5
0
January 2015
April 2015
July 2015
October 2015
December 2015
March 2016
June 2016
September 2016
December 2016
March 2017
June 2017
September 2017
December 2017
March 2018
June 2018
September 2018
December 2018
March 2019
June 2019
September 2019
December 2019
March 2020
June 2020
September 2020
Rainfall (in)
Wastewater Flow Per Day (MGD)

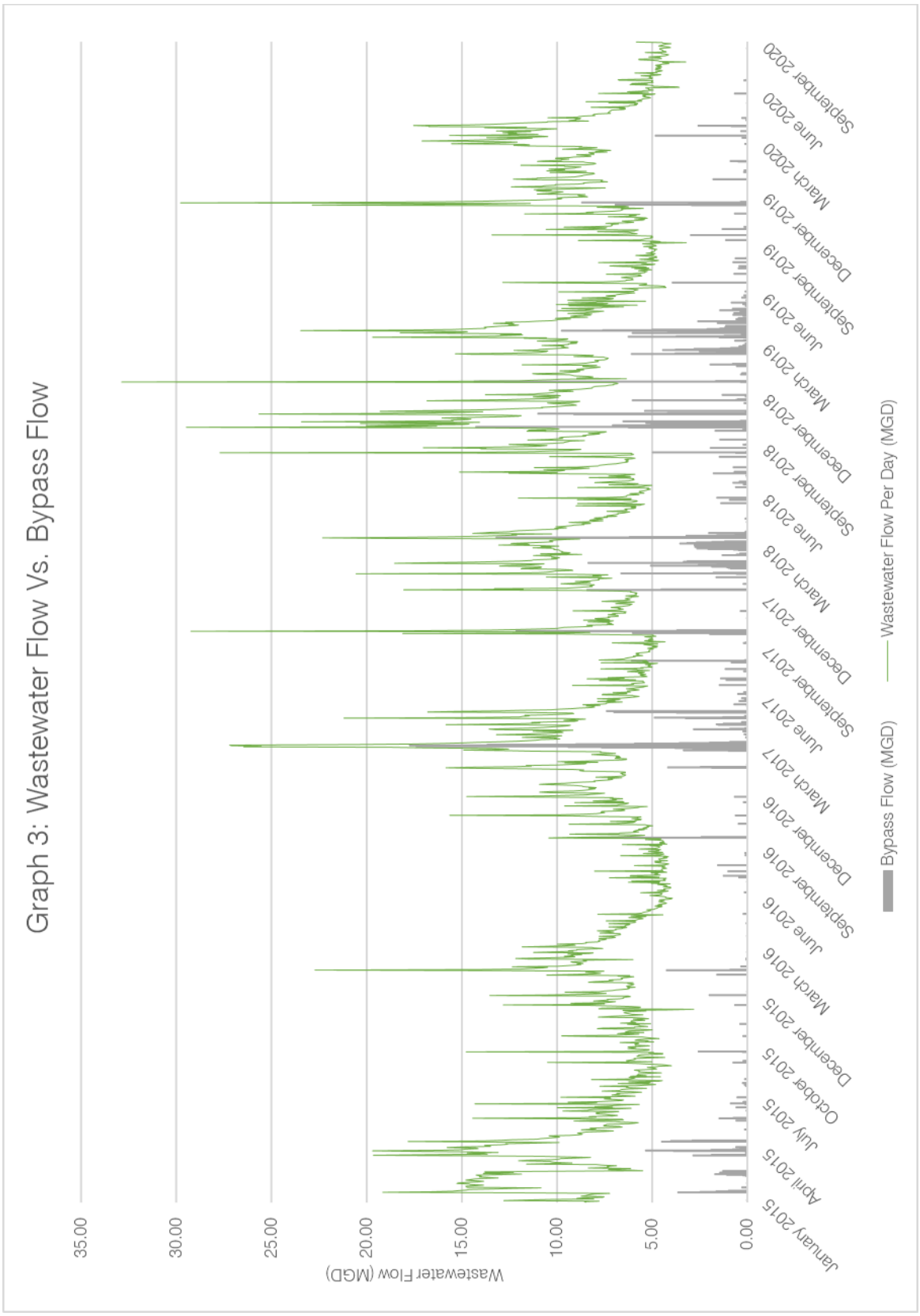
When combined with the chemically enhanced primary treatment (CEPT) project, the SSU was expected to significantly increase the EWWTF's treatment capacity, as shown in Table 7 (Wright-Pierce, *POTW Optimization Evaluation of the Easterly Wastewater Treatment Facility*, 2012).

Table 7: Projected Treatment Capacity Improvements from Secondary System Upgrades

Seasonal Hourly Capacity	2012 Treatment Capacity	Projected Treatment Capacity with CEPT and SSU
Peak Hourly Capacity (June 1 – October 31)	15 MGD	32 MGD
Peak Hourly Capacity (November 1 – April 30)	15 MGD	40 MGD
Peak Hourly Capacity (May)	14 MGD	20 MGD

Historically, flows exceeding 15 MGD resulted in a permitted secondary system bypass to the North Nashua River. Many of the bypass events coincided with rain events. Bypass events are shown in the graph on the following page and are represented in the graph below.




Graph 3: Wastewater Flow Vs. Bypass Flow
Wastewater Flow (MGD)
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
January 2015
April 2015
July 2015
October 2015
December 2015
March 2016
June 2016
September 2016
December 2016
March 2017
June 2017
September 2017
December 2017
March 2018
June 2018
September 2018
December 2018
March 2019
June 2019
September 2019
December 2019
March 2020
June 2020
September 2020
Bypass Flow (MGD)
Wastewater Flow Per Day (MGD)

Bypass events increased between 2017 and 2018 during the construction of the SSU. Following the completion of the SSU, the bypass was only activated once during the month of September. When compared to historic flows in September 2016, which had a similar monthly rainfall depth and total monthly wastewater flow volume, the use of the bypass significantly decreased. It should be noted that September 2016 had storm events causing wet-weather flows to exceed 30 MGD, while storm events in September 2020 never resulted in the wastewater flow exceeding 20 MGD. The comparison of flows during the month of September between 2015 and 2020 are shown in Table 8 below:

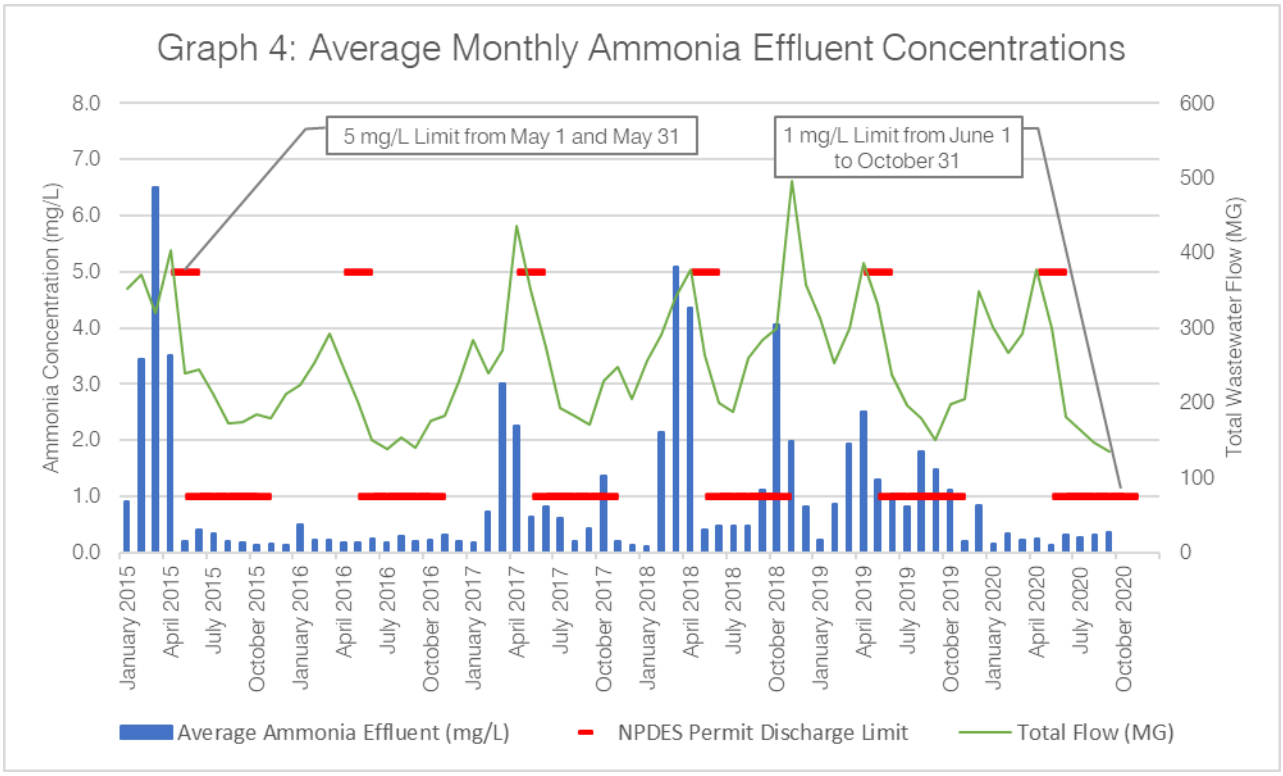
Table 8: September Wastewater Flow Summary (2015-2020)

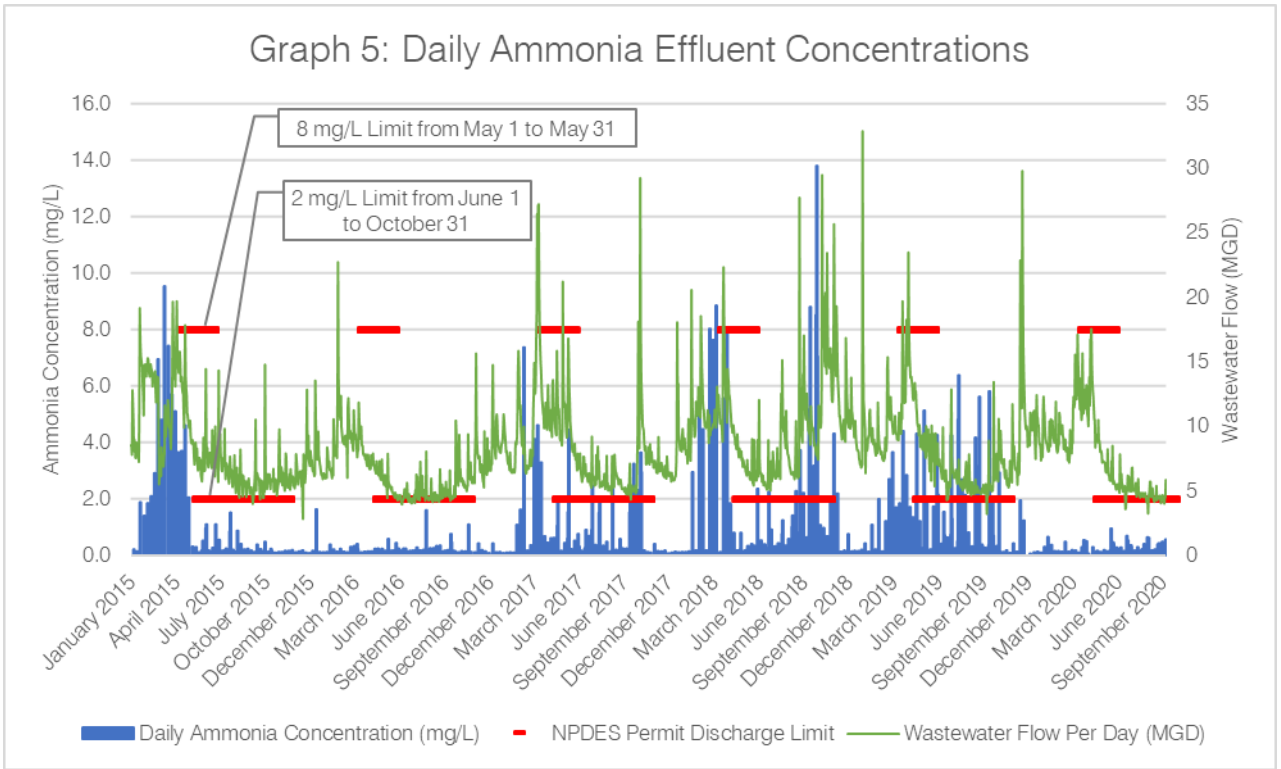
Year	Total Flow (MG)	Total Rainfall (in.)	Total Bypass (MG)
September 2015	174	5.3	3.87
September 2016	141	2.1	1.86
September 2017	171	4.5	7.11
September 2018	284	8.4	9.4
September 2019	151	0.67	0.74
September 2020	135	1.68	0.05

In addition to the increased capacity at the EWWTF, the City anticipates significant reductions in wet weather peak hourly flows after the completion of the remaining sewer separation projects outlined in the CSO LTCP, which will likely reduce or eliminate the secondary bypass occurrences during wet weather events. Further reductions in the use of the secondary bypass may also assist the City's ability to meet NDPES Permit Discharge Limits. The City plans to continue to monitor bypass volumes and intends to provide an update in the Phase III of the WMP.

5.2 Ammonia Concentrations

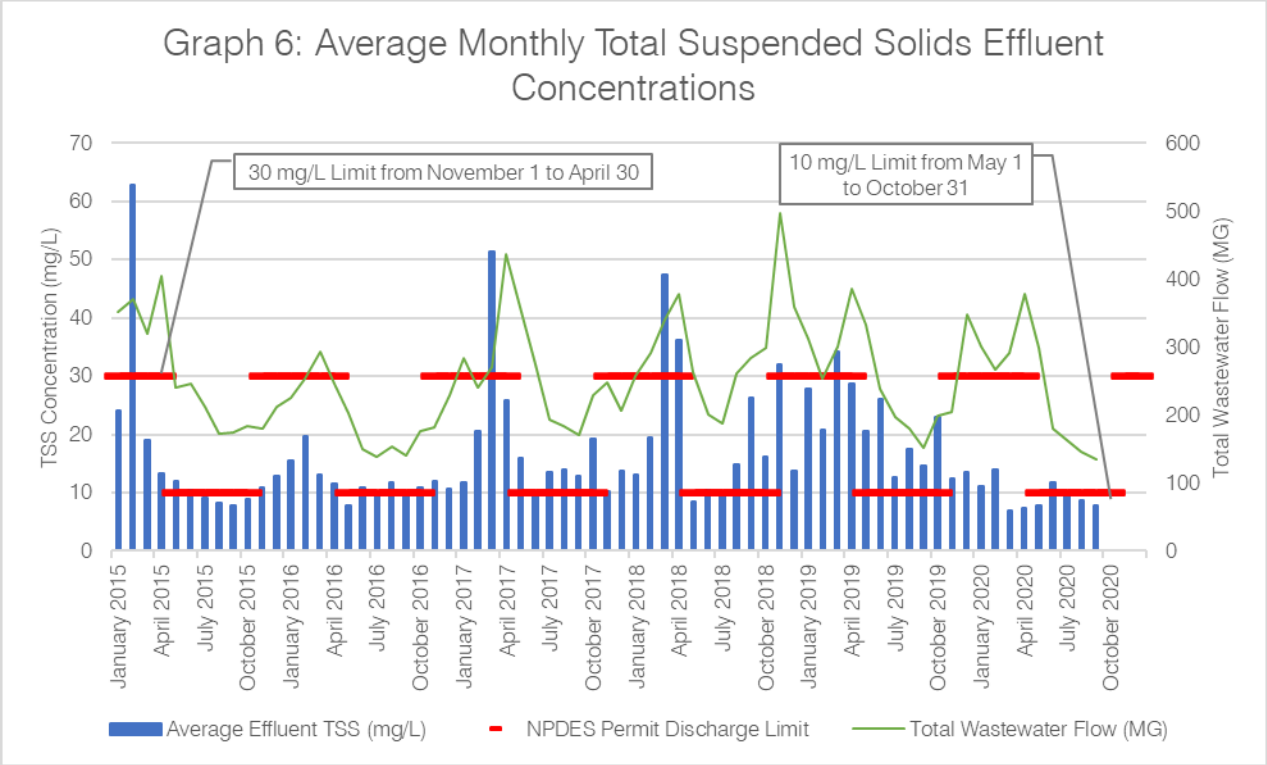
According to the 2012 *POTW Optimization Evaluation of the Easterly Wastewater Treatment Facility*, the EWWTF is expected to meet the ammonia NPDES Discharge limits for up to 35 MGD when both the CEPT and SSU Projects are complete. Since 2015, the EWWTF met discharge requirements for ammonia concentrations apart from the months of August, September, and October between 2017 and 2019. During these time periods, the SSU was under construction and the EWWTF was operating at a limited capacity. Since the completion of the SSU, the City of Fitchburg has successfully met the NPDES Permit discharge requirements for ammonia for both the daily and monthly effluent concentrations. The City will continue to monitor ammonia effluent concentrations as required by their NPDES Permit and will provide an update in the WMP Phase III Report. A summary of the average and daily ammonia effluent concentrations is provided in the following graphs.


Graph 4: Average Monthly Ammonia Effluent Concentrations
5 mg/L Limit from May 1 and May 31
1 mg/L Limit from June 1 to October 31
Ammonia Concentration (mg/L)
Total Wastewater Flow (MG)
Average Ammonia Effluent (mg/L)
NPDES Permit Discharge Limit
Total Flow (MG)

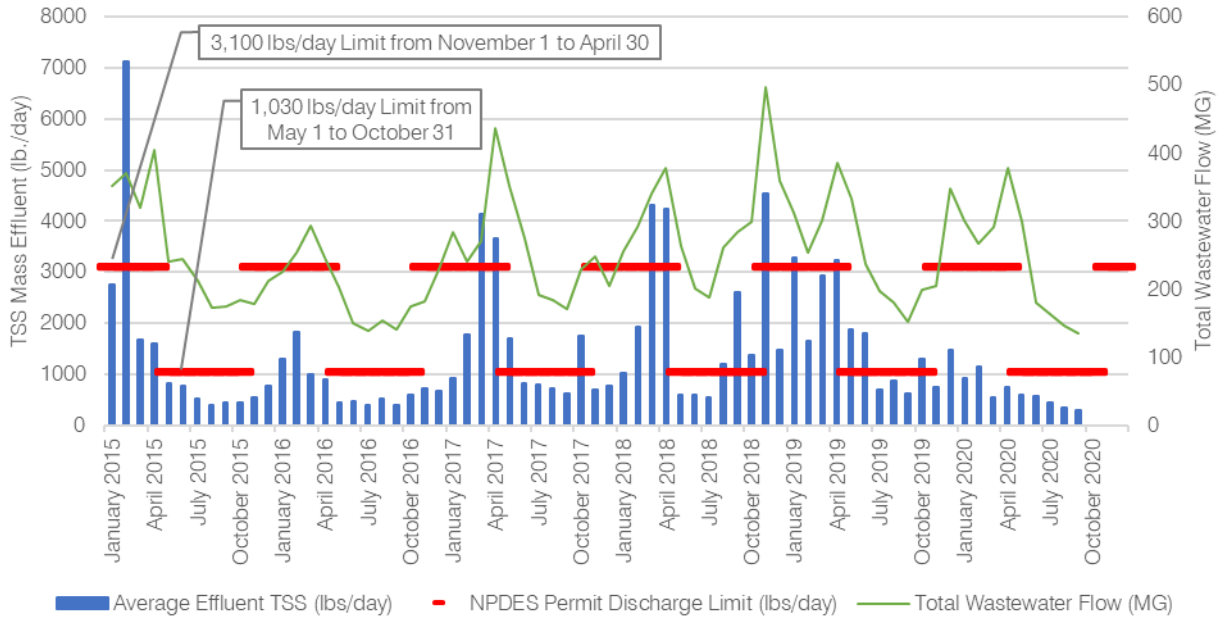

Graph 5: Daily Ammonia Effluent Concentrations
8 mg/L Limit from May 1 to May 31
2 mg/L Limit from June 1 to October 31
Ammonia Concentration (mg/L)
Wastewater Flow (MGD)
Daily Ammonia Concentration (mg/L)
NPDES Permit Discharge Limit
Wastewater Flow Per Day (MGD)

5.3 Total Suspended Solids Concentrations

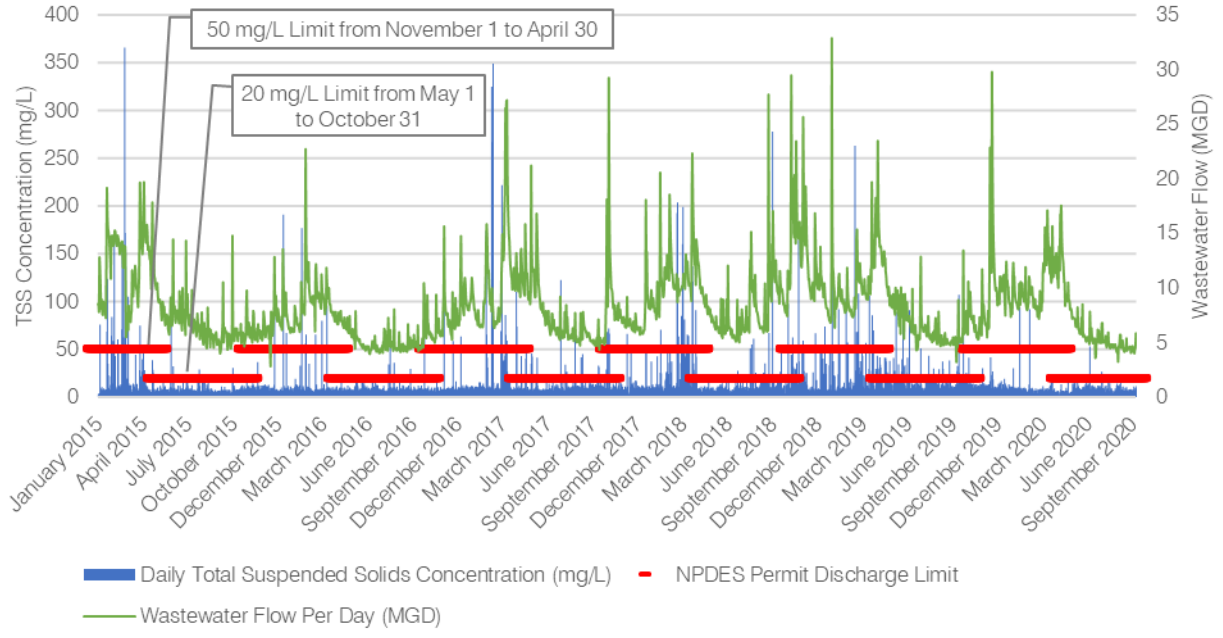
The 2012 *POTW Optimization Evaluation of the Easterly Wastewater Treatment Facility* Report indicated that following the completion of the CEPT upgrade, the EWWTF would meet effluent requirements under the NPDES Permit during the historic peak hourly flow rate of 40 MGD. However, average monthly TSS effluent discharges between 2017 and 2019 have not consistently met the discharge limits, particularly during the Spring and Summer months where the monthly discharge limit is lower (10 mg/L). It should be noted that the majority of the months where the TSS effluent concentrations were elevated occurred during the construction of the SSU.

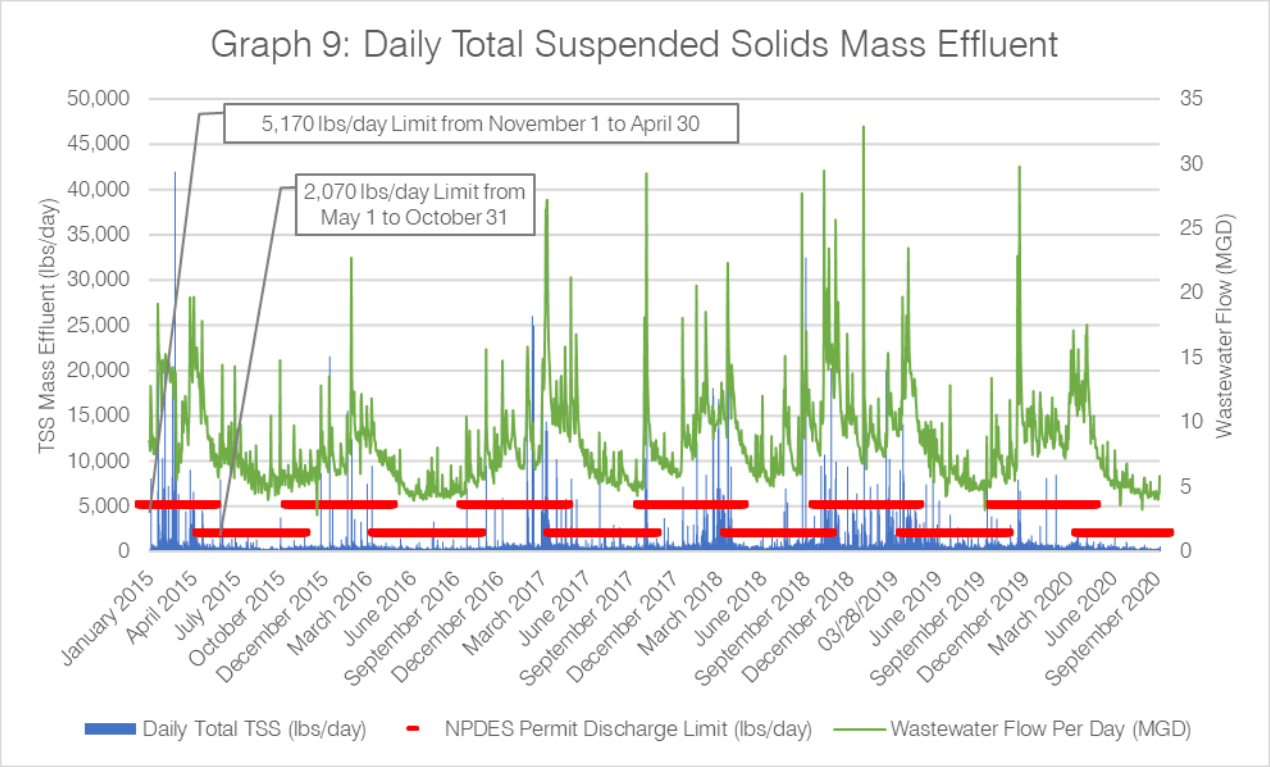


Graph 7: Average Monthly Total Suspended Solids Mass Effluent



Graph 8: Daily Total Suspended Solids Effluent Concentrations





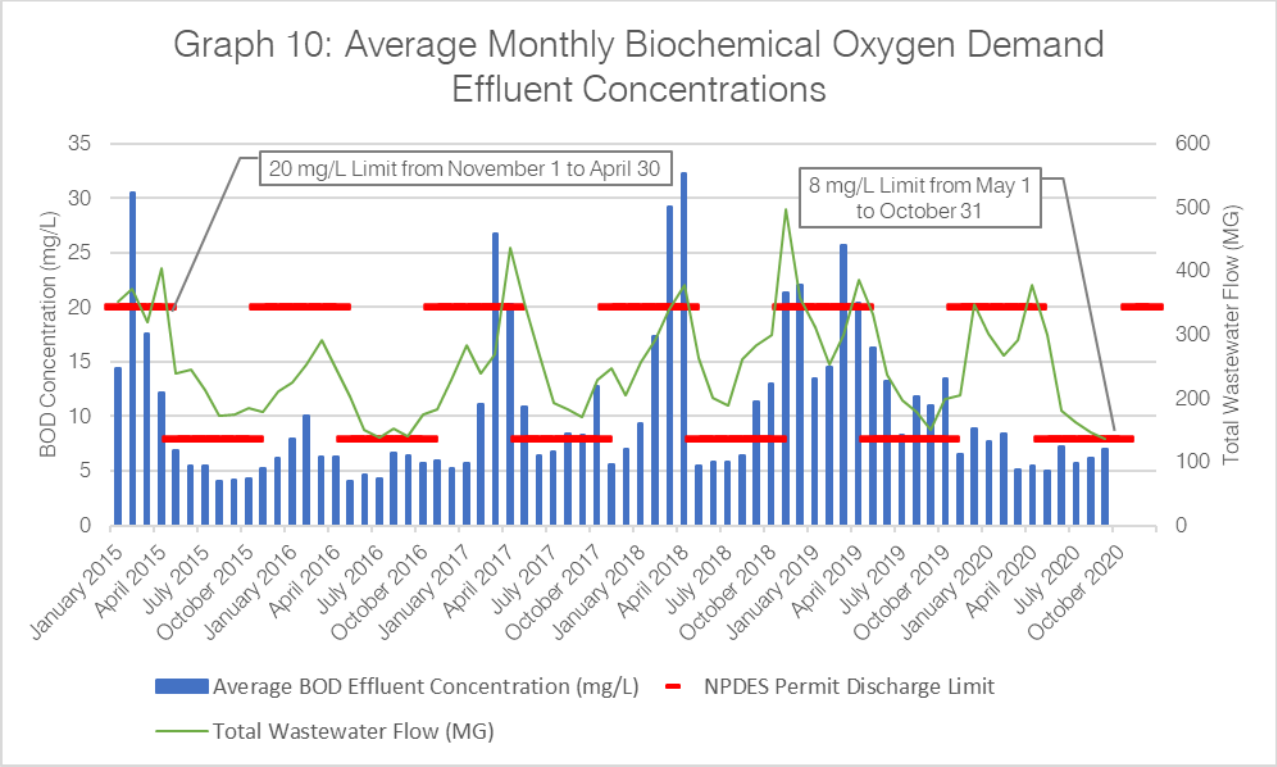
Following the completion of the SSU, the City has met both the average and monthly effluent concentrations and the average and monthly loads for TSS. It should be noted the City of Fitchburg has not encountered a significant rain event that resulted in significant wastewater flow that would fully test the treatment capabilities of the EWWTF. However, storm events occurred on August 10, 2016 and July 23, 2020 resulted in similar rainfall depths, maximum wastewater flow rates, and total daily wastewater flow rates. A comparison between the TSS concentrations during these storm events can provide an indication on the improvement of TSS treatment capability for the EWWTF. It should be noted that the storm event on July 23, 2020 occurred when the SSU was not fully completed and was operating at a limited capacity. The comparison of the storm events is provided in Table 9.

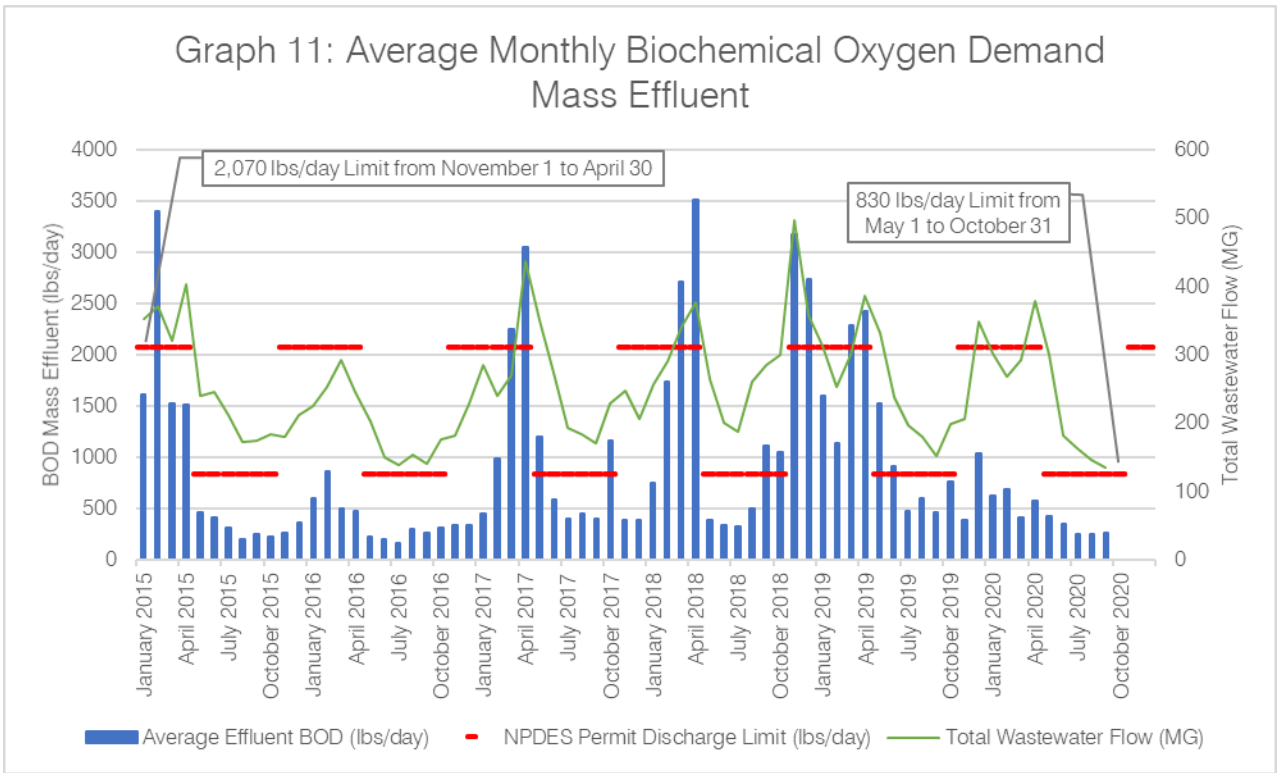
Table 9: Sample of TSS Treatment Capabilities			
Data	August 10, 2016	July 23, 2020	NPDES Permit Limit
Rainfall (in)	1	0.9	-
Maximum Wastewater Flow (MGD)	26.58	25.3	-
Total Wastewater Flow (MGD)	7.26	6.75	-
Bypass Volume (MGD)	0.46	0.074	-
TSS Influent Concentration (mg/L)	828	506	-
TSS Influent Load (lbs./day)	50,134	28,485	-
TSS Effluent Concentration (mg/L)	34.3	16.6	20
TSS Effluent Load (lbs./day)	2,083	934	2,070
TSS Removal Efficiency	95.85%	96.72%	85% (monthly average)

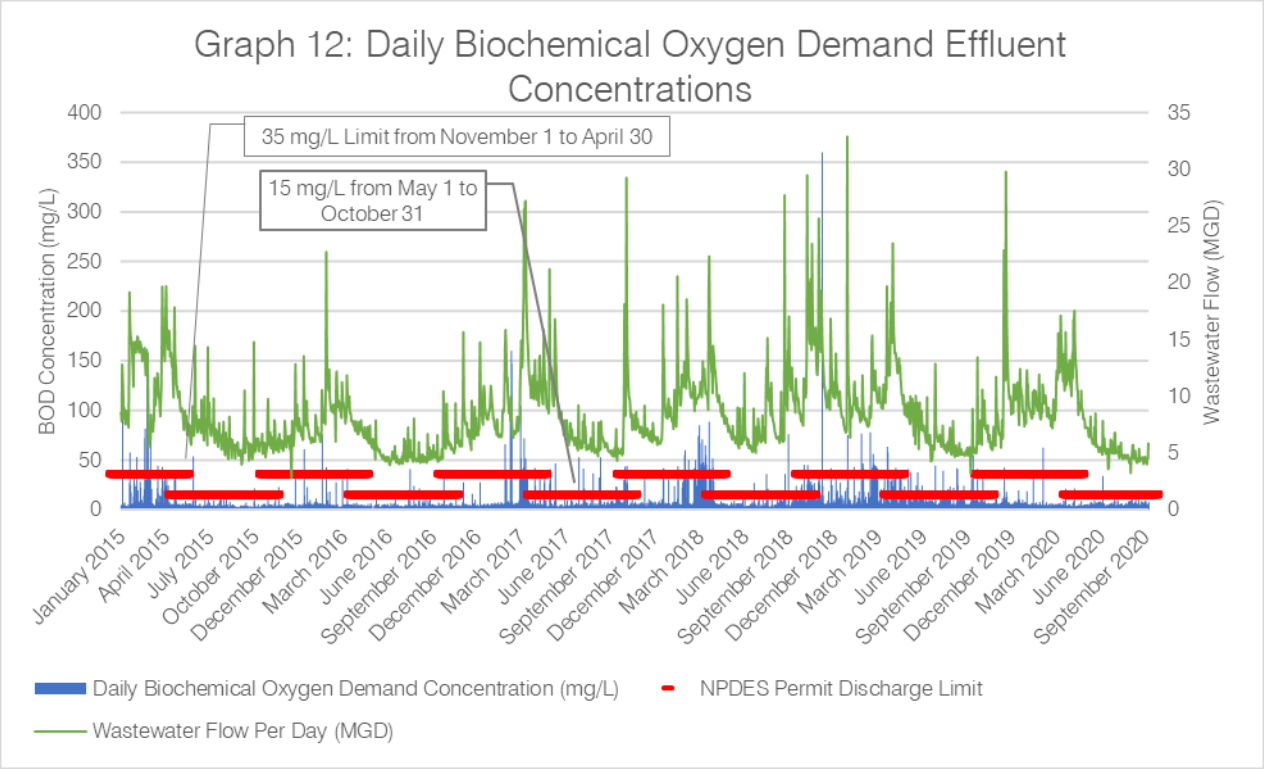
It is anticipated that with the completion of the SSU, the City will continue to meet NPDES Permit Discharge Limits for TSS during storm events that result in significant peak wastewater flow rates. The City will continue to report TSS effluent concentrations as required by the NPDES Permit and will provide updated information in the next phase of the WMP.

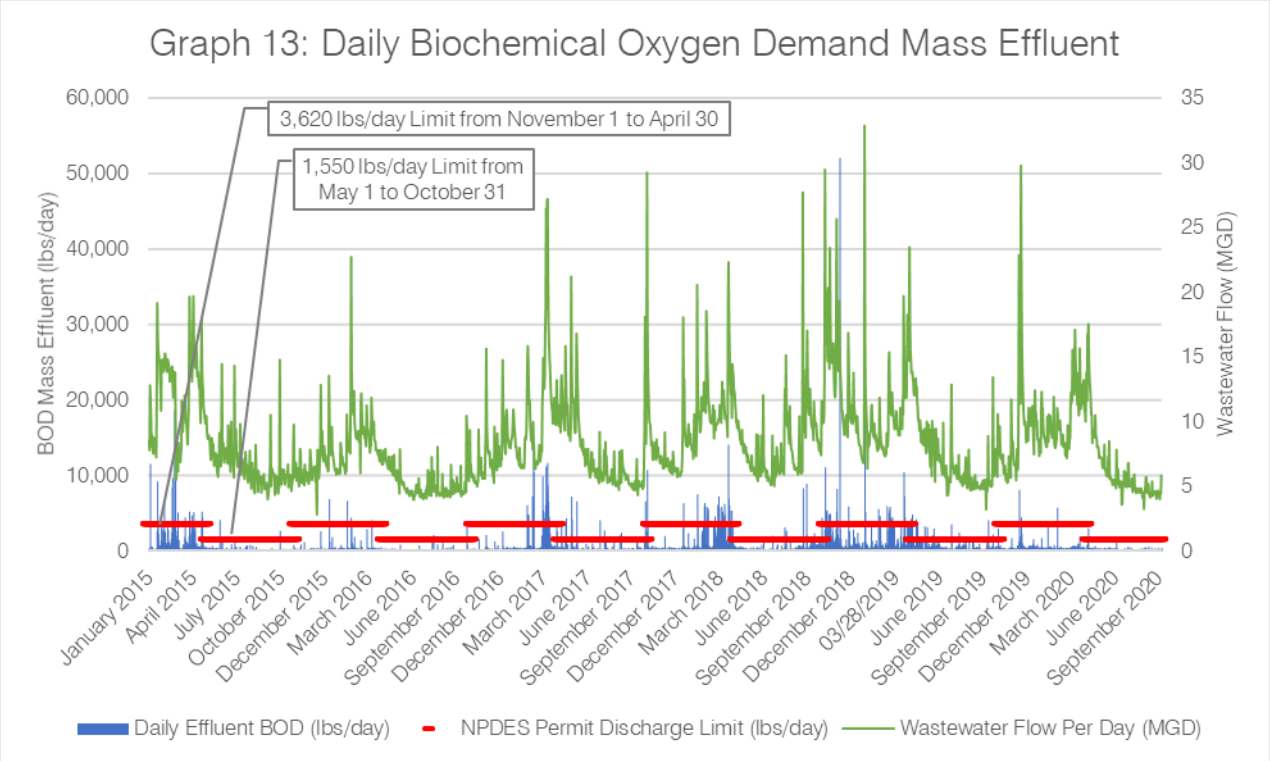
5.4 Biochemical Oxygen Demand

Following the completion of the CEPT, the EWWTF was expected to meet BOD NPDES Discharge Permit Limits for flows up to 22 MGD and flows up to 35 MGD after the completion of the SSU (Wright Pierce, *POTW Optimization of the Easterly Wastewater Treatment Facility*, 2012). The City has been able to successfully meet the BOD discharge requirements for both the daily maximum limit and average monthly limit, except periods in 2017, 2018, and 2019 when the SSU upgrades were under construction and the treatment facility was operating at a reduced capacity.


Graph 10: Average Monthly Biochemical Oxygen Demand Effluent Concentrations
20 mg/L Limit from November 1 to April 30
8 mg/L Limit from May 1 to October 31
BOD Concentration (mg/L)
Total Wastewater Flow (MG)
0
5
10
15
20
25
30
35
0
100
200
300
400
500
600
January 2015
April 2015
July 2015
October 2015
January 2016
April 2016
July 2016
October 2016
January 2017
April 2017
July 2017
October 2017
January 2018
April 2018
July 2018
October 2018
January 2019
April 2019
July 2019
October 2019
January 2020
April 2020
July 2020
October 2020
Average BOD Effluent Concentration (mg/L)
NPDES Permit Discharge Limit
Total Wastewater Flow (MG)


Graph 11: Average Monthly Biochemical Oxygen Demand Mass Effluent
2,070 lbs/day Limit from November 1 to April 30
830 lbs/day Limit from May 1 to October 31
BOD Mass Effluent (lbs/day)
Total Wastewater Flow (MG)
0
500
1000
1500
2000
2500
3000
3500
4000
0
100
200
300
400
500
600
January 2015
April 2015
July 2015
October 2015
January 2016
April 2016
July 2016
October 2016
January 2017
April 2017
July 2017
October 2017
January 2018
April 2018
July 2018
October 2018
January 2019
April 2019
July 2019
October 2019
January 2020
April 2020
July 2020
October 2020
Average Effluent BOD (lbs/day)
NPDES Permit Discharge Limit (lbs/day)
Total Wastewater Flow (MG)


Graph 12: Daily Biochemical Oxygen Demand Effluent Concentrations
35 mg/L Limit from November 1 to April 30
15 mg/L from May 1 to October 31
BOD Concentration (mg/L)
Wastewater Flow (MGD)
Daily Biochemical Oxygen Demand Concentration (mg/L)
NPDES Permit Discharge Limit
Wastewater Flow Per Day (MGD)


Graph 13: Daily Biochemical Oxygen Demand Mass Effluent
3,620 lbs/day Limit from November 1 to April 30
1,550 lbs/day Limit from May 1 to October 31
BOD Mass Effluent (lbs/day)
Wastewater Flow (MGD)
Daily Effluent BOD (lbs/day)
NPDES Permit Discharge Limit (lbs/day)
Wastewater Flow Per Day (MGD)

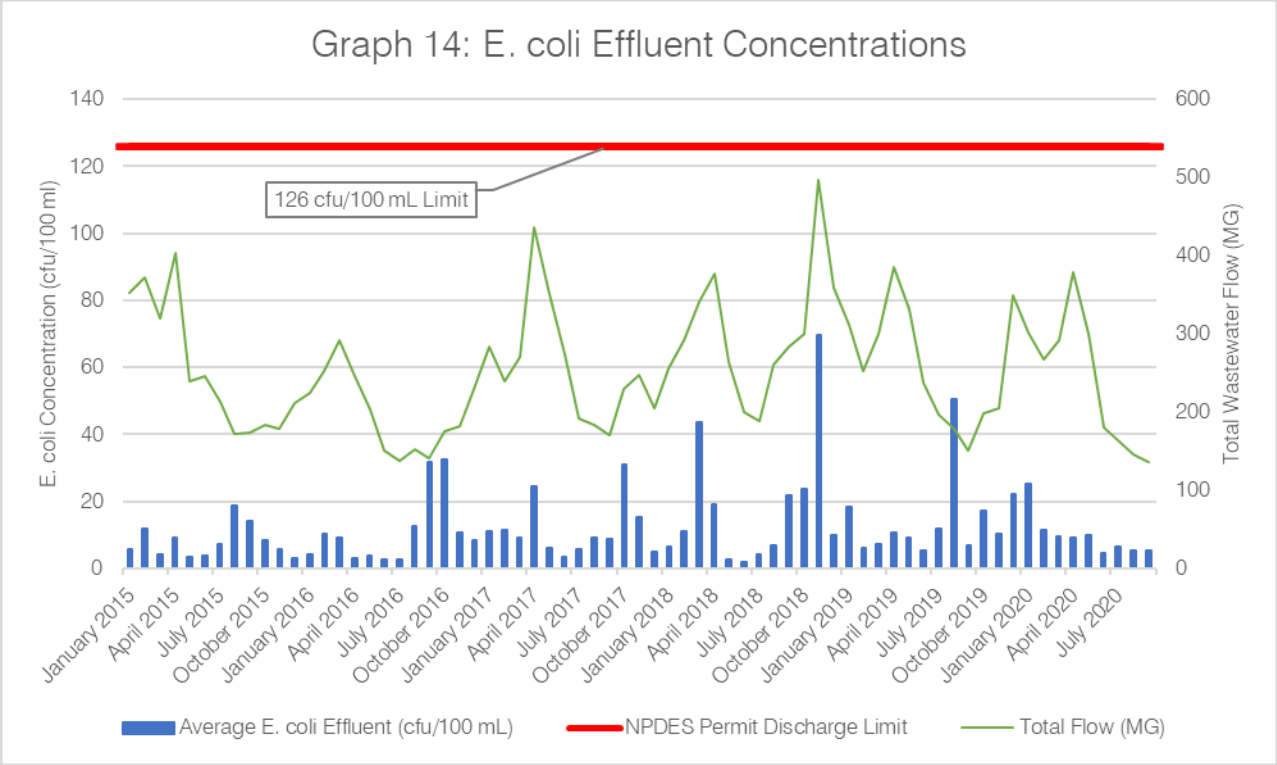
Since the full implementation of the SSU in August 2020, the City has seen improvements in BOD treatment, and has met the NPDES Permit Discharge Limits. The improved treatment capacity can be observed through the storm events on August 10, 2016 and July 23, 2020.

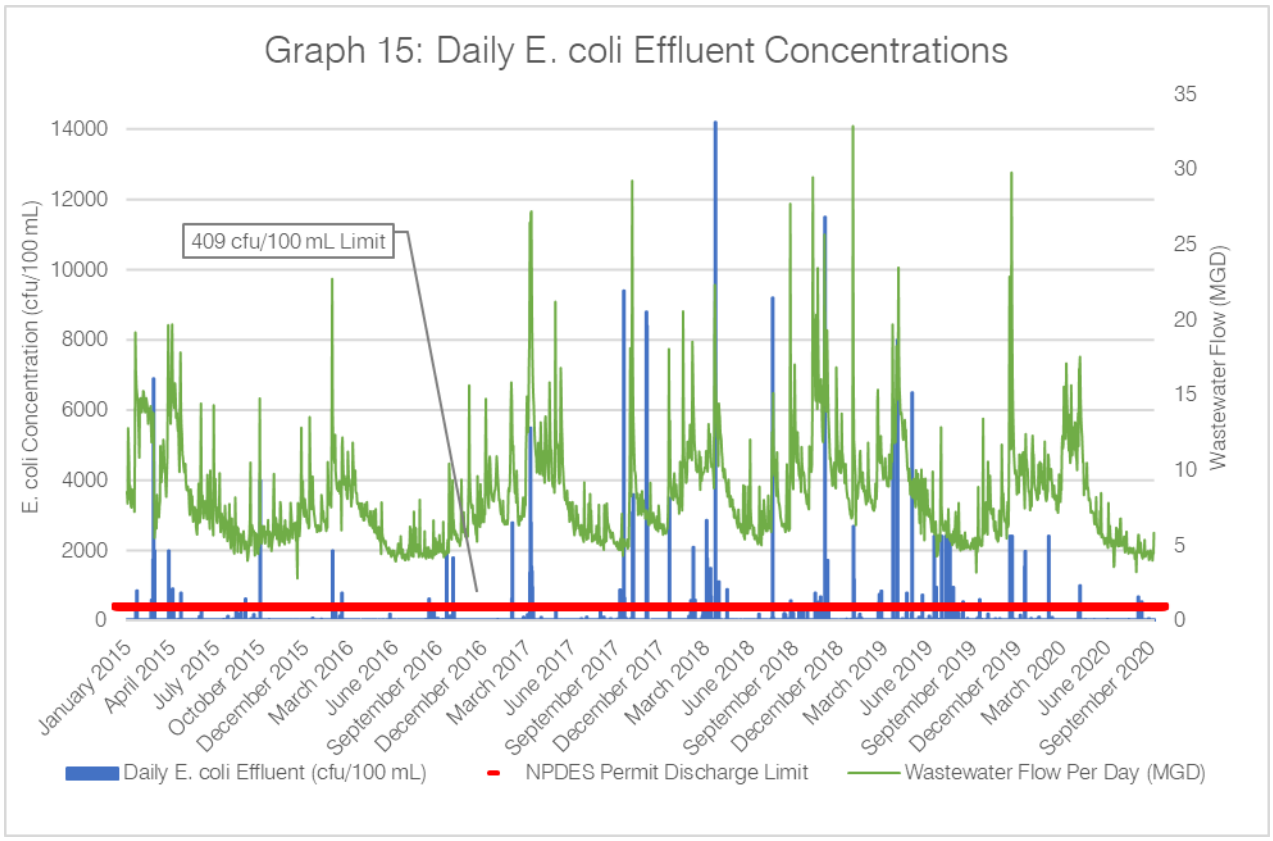
Table 10: Sample of BOD Treatment Capabilities			
Data	August 10, 2016	July 23, 2020	NPDES Permit Limit
Rainfall (in)	1	0.9	-
Maximum Wastewater Flow (MGD)	26.58	25.3	-
Total Wastewater Flow (MGD)	7.26	6.75	-
Bypass Volume (MGD)	0.46	0.074	-
BOD Influent Concentration (mg/L)	410	381	-
BOD Influent Load (lbs./day)	24,825	21,448	-
BOD Effluent Concentration (mg/L)	20.1	8.9	15
BOD Effluent Load (lbs./day)	1,217	501	1,550
TSS Removal Efficiency	95.10%	97.66%	85% (monthly average)

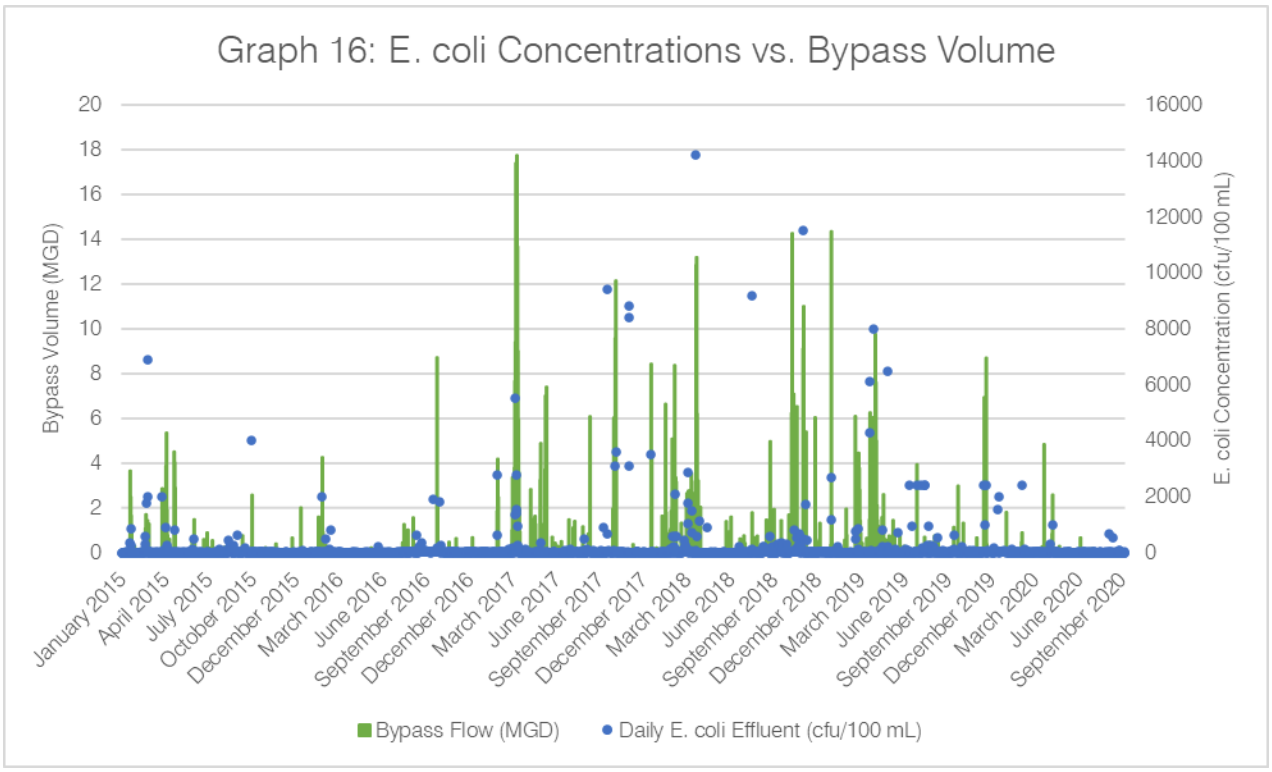
Based on the analysis of available data, it is anticipated that with the completion of the SSU, the City will continue to meet BOD NPDES Permit Discharge Limits during storm events that result in significant peak wastewater flow rates. The City will continue to report BOD effluent concentrations as required by the NPDES Permit and will provide updated information in the next phase of the WMP.

5.5 Escherichia Coli

Since 2015, the City has consistently adhered to their NPDES Permit Discharge Limit for E. coli. The City has had historic E. coli concentrations that exceeded their NPDES Permit Daily Limit, particularly between 2017 and 2019 when the SSU was under construction and the EWWTF was operating at a limited capacity. Recorded effluent E. coli concentrations are shown in the following graphs.


Graph 14: E. coli Effluent Concentrations
E. coli Concentration (cfu/100 ml)
Total Wastewater Flow (MG)
126 cfu/100 mL Limit
0
20
40
60
80
100
120
140
0
100
200
300
400
500
600
January 2015
April 2015
July 2015
October 2015
January 2016
April 2016
July 2016
October 2016
January 2017
April 2017
July 2017
October 2017
January 2018
April 2018
July 2018
October 2018
January 2019
April 2019
July 2019
October 2019
January 2020
April 2020
July 2020
Average E. coli Effluent (cfu/100 mL)
NPDES Permit Discharge Limit
Total Flow (MG)

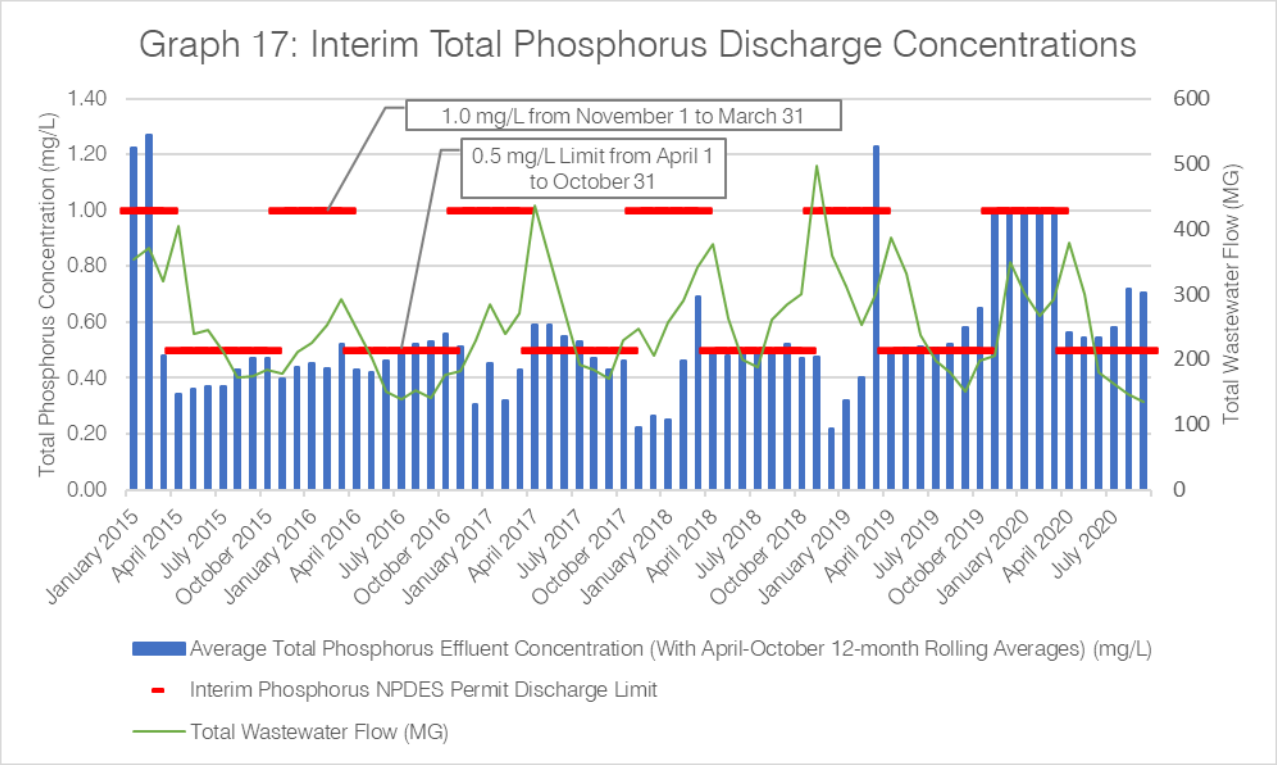

Graph 15: Daily E. coli Effluent Concentrations
E. coli Concentration (cfu/100 mL)
Wastewater Flow (MGD)
409 cfu/100 mL Limit
0
2000
4000
6000
8000
10000
12000
14000
0
5
10
15
20
25
30
35
January 2015
April 2015
July 2015
October 2015
December 2015
March 2016
June 2016
September 2016
December 2016
March 2017
June 2017
September 2017
December 2017
March 2018
June 2018
September 2018
December 2018
March 2019
June 2019
September 2019
December 2019
March 2020
June 2020
September 2020
Daily E. coli Effluent (cfu/100 mL)
NPDES Permit Discharge Limit
Wastewater Flow Per Day (MGD)



Following the completion of the SSU, the City anticipates an increase in treatment capacity and a reduction in the number of secondary system bypasses. Since many NPDES Permit Limit exceedances for E. coli occurred when the secondary system bypass was activated, the City anticipates a reduction in permit exceedances for daily E. coli effluent concentrations with reductions in the use of the secondary system bypass.

5.6 Interim Phosphorus Concentrations

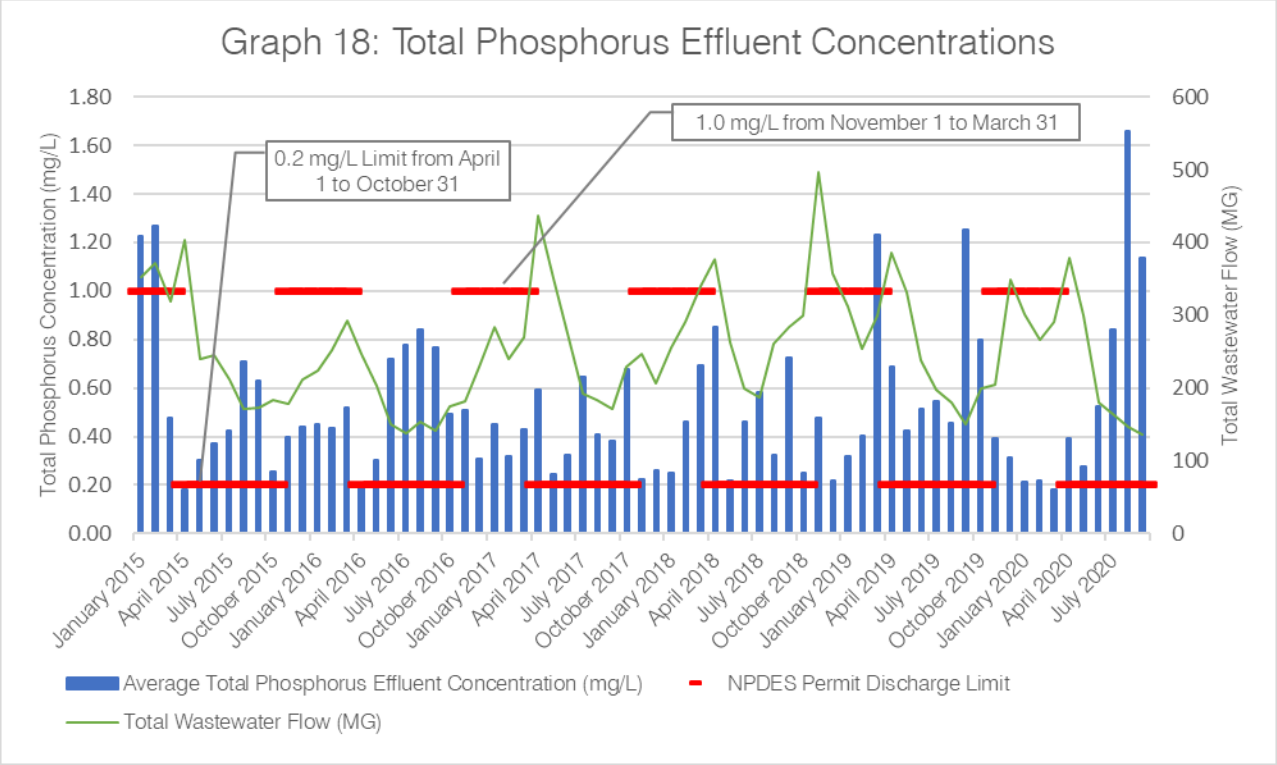
As required under the CD, the City is required to meet an interim seasonal phosphorus discharge limit of 0.5 mg/L between April 1 and October 31, calculated as a 12-month rolling average (*United States, Commonwealth of Massachusetts v. City of Fitchburg,* 2012). Since 2012, the City has been actively working to comply with the interim seasonal Phosphorus discharge limit and has largely been able to meet the limit, even throughout the construction of the SSU. A graph of the average monthly discharge limit, using the interim 12-month rolling average for phosphorus, is shown in the following graph.

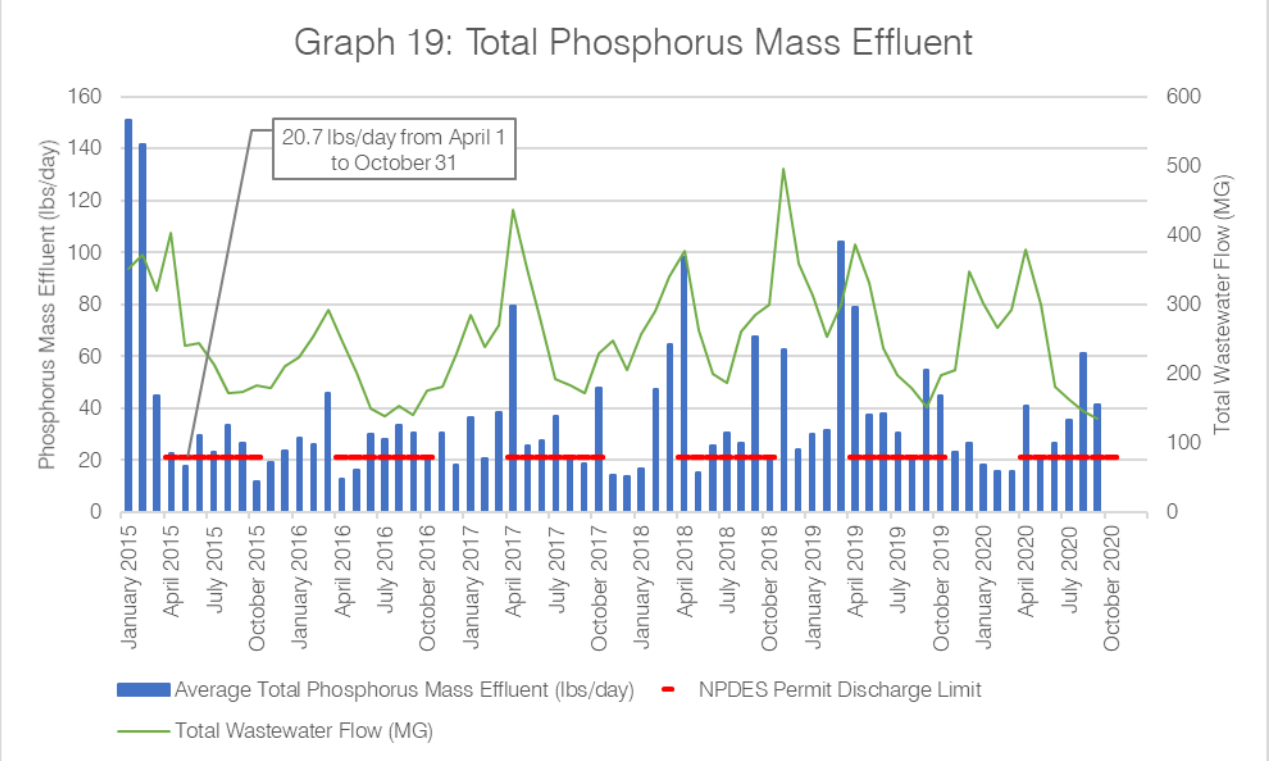


At the conclusion of the SSU, the secondary system was taken partially offline to accommodate warranty construction work and optimized the system for maximum treatment efficiency. During this time, the City saw an increase in the phosphorus discharge concentration. Although the EWWTF with the completed SSU upgrades did not initially meet the Interim Phosphorus Discharge Limit, the City is anticipating that further optimization will result in the City consistently adhering to the Interim Phosphorus Discharge Limit. The City will reassess the EWWTF performance on total phosphorus removal in the next phase of the WMP as a more comprehensive dataset of post-construction SSU performance is developed. The City also plans to further discuss optimization efforts and their impact on total phosphorus effluent concentrations in the next phase of the WMP.

5.7 Total Phosphorus Discharge

In order to satisfy the CD requirements for the WMP, the City is required to create an itemized list of construction of facilities necessary to meet the seasonal phosphorus discharge limit of 0.2 mg/L and 20.7 lbs./day (*United States, Commonwealth of Massachusetts v. City of Fitchburg,* 2012). The City's average monthly phosphorus discharges are provided in the graphs on the following page.

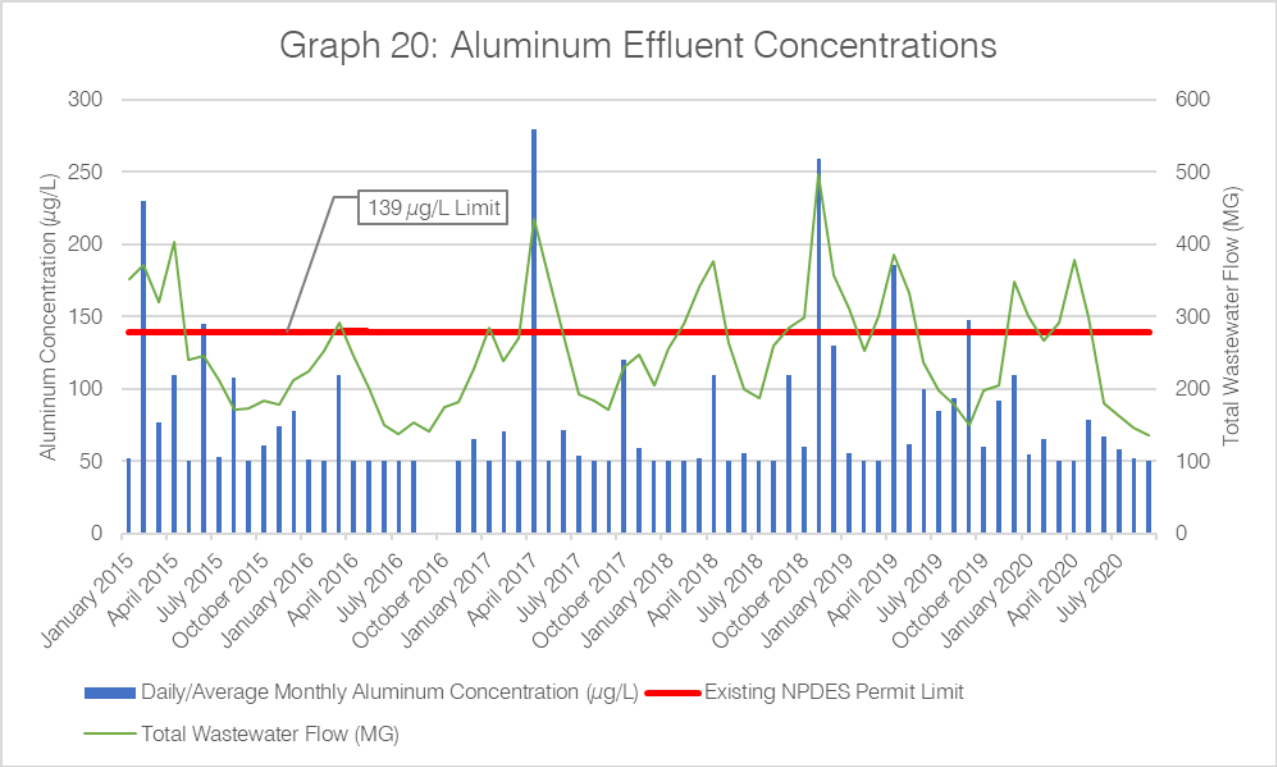

Graph 18: Total Phosphorus Effluent Concentrations
Total Phosphorus Concentration (mg/L)
Total Wastewater Flow (MG)
0.2 mg/L Limit from April 1 to October 31
1.0 mg/L from November 1 to March 31
Average Total Phosphorus Effluent Concentration (mg/L)
NPDES Permit Discharge Limit
Total Wastewater Flow (MG)


Graph 19: Total Phosphorus Mass Effluent
Phosphorus Mass Effluent (lbs/day)
Total Wastewater Flow (MG)
20.7 lbs/day from April 1 to October 31
Average Total Phosphorus Mass Effluent (lbs/day)
NPDES Permit Discharge Limit
Total Wastewater Flow (MG)

As previously discussed, the City performed warranty construction work for the SSU that resulted in the system being taken partially offline. This resulted in increased phosphorus discharge concentrations/loads. During the month of May 2020, prior to the warranty construction commencing, the City was able to achieve an average monthly phosphorus discharge concentration of 0.27 mg/L, and a mass load of 21.4 lbs./day. The City anticipates that further optimization will result in lower phosphorus discharge concentrations and will help the City consistently adhere to the Interim Phosphorus Discharge Limit. In the WMP Phase III Report, the City plans to provide a detailed analysis of the success of the system optimization and the potential need to conduct additional construction/optimization measures to meet the Total Phosphorus Discharge Requirements.

5.8 Total Recoverable Aluminum

As part of the WMP Phase I Report, aluminum was listed as a potential pollutant of concern due to the potential for a future daily maximum limit in the City's next NPDES Permit. Based on the 2018 EPA Freshwater Quality Criteria Approach, the WMP Phase I identified a potential aluminum average monthly limit of 647 µg/L and a potential aluminum daily limit of 1,601 µg/L. These calculated potential limits were evaluated based on a statistical analysis of dissolved organic carbon (DOC) concentrations from Table 19 of the *Draft Technical Support Document: Recommended Estimates for Missing Water Quality Parameters for Application in EPA's Biotic Ligand Model.* The City does not have site-specific data collected for DOC to confirm the potential limits. However, it should be noted that the City's current NPDES Permit Limit is 139 µg/L. In addition, the proposed Massachusetts Water Quality Standards for the Nashua River Basin in the 2018 Final Aquatic Life Ambient Water Quality Criteria for Aluminum in Freshwater are 350 µg/L for a daily maximum limit and 200 µg/L for an average monthly limit. It should be noted that the 2018 EPA Freshwater Quality Criteria Approach has not been adopted into MassDEP standards, although it is anticipated that MassDEP intends to do so. The following graph identifies the historic aluminum concentrations at the EWWTF when compared to the monthly NPDES Permit Discharge Limit.



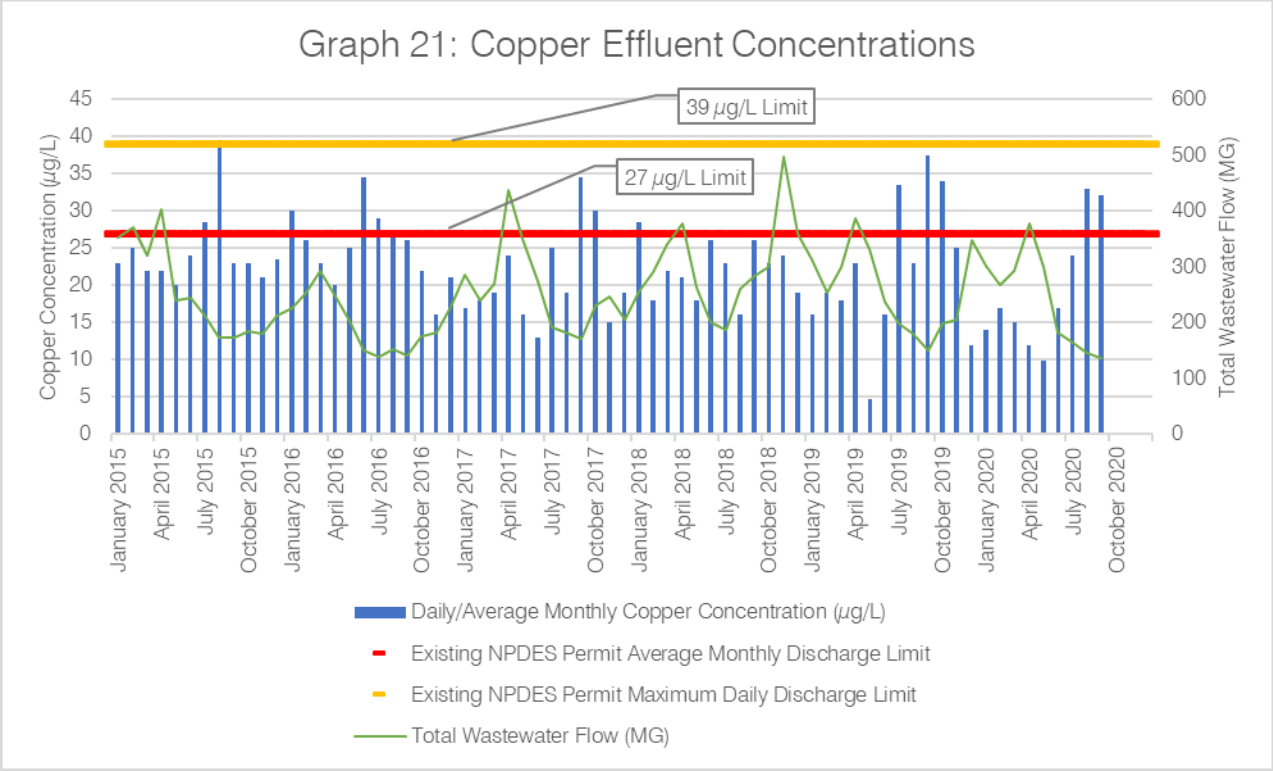
Based on the historic effluent concentrations of aluminum, the City does not anticipate exceeding the effluent limits. As shown in the above graph, aluminum discharge concentrations have regularly been below the existing NPDES Permit Discharge Limit throughout 2020. The City will continue to monitor and sample for aluminum concentrations as required by the current NPDES Permit and in anticipation of future limits in the next NPDES Permit to further assess improvements of aluminum levels following the completion of the SSU.

In the Phase I WMP Report, options were suggested that may optimize the EWWTF system performance and develop site specific limits for aluminum. One of the considerations suggested to review the stages and adoption of new MassDEP Water Quality Standards. Aluminum concentrations based on the revised EPA 2018 Aluminum Criteria were calculated utilizing data available which yielded potential effluent limits that are less stringent than 139 µg/L. Regulatory mechanisms under the CWA, such as anti-backsliding and anti-degradation, need to be fully analyzed for applicability. These specific policies can often prevent a permittee from being granted a permit effluent limit of a greater concentration than an existing permit. Any less stringent permit limit concentration would need to remain consistent with anti-backsliding requirements or comply with one of the exceptions. This may include negotiations and correspondence with EPA permit writers at the time of issuance of the new NPDES Permit. Additional options suggested in the Phase I WMP Report included evaluating the use of a WER to develop site-specific criteria for aluminum, investigating the potential for new handling or O&M procedures for residuals at the Regional Water Filtration Facility (RWFF), and to consider the use of metal salts, other than polyaluminum chloride, and evaluate the benefit for multi-point chemical addition.

To date, the City has not received its new NPDES Permit from MassDEP and EPA. As a result, the City is still waiting to review new NPDES Permit limits to determine the need for enacting the recommendations mentioned in the previous paragraph.

5.9 Total Recoverable Copper

Copper was also identified as a pollutant of medium potential concern in the WMP Phase I Report. As discussed in the WMP Phase I Report, MassDEP will be proposing to adopt the EPA recommended BLM approach for copper limits in future NPDES Permits, as well as retaining the existing hardness-dependent approach. The BLM approach may result in a more stringent discharge limit for the City. Currently, the EWWTF is required to meet NPDES Permit discharge limits for copper through an average monthly limit of 27 µg/L and a daily maximum limit of 39 µg/L. The graph below identifies the historic copper discharge concentrations at the EWWTF. It should be noted that the City is currently only required to sample for copper once per month, therefore the daily maximum value and average monthly value are identical.



As shown in the graph above, copper has not consistently met the permitted average monthly effluent limit throughout the data evaluation period. Therefore, copper should be identified as a pollutant of high potential concern. The WMP Phase I Report recommended the City to consider the BLM site-specific approach to adjust copper limits and evaluate the benefits of an increase in hardness levels to greater than 56 mg/L for the calculation. The BLM approach utilizes ten water quality input parameters, and therefore sampling for additional water quality parameters may be necessary. Since the City has not received an updated NPDES Permit to date, the City has been unable to engage in discussions related to adjustments in permit limits. The City plans to engage in these recommendations following the issuance of the new NPDES Permit.

5.10 SSU Conclusions and Recommendations

The combination of the SSU and CEPT Upgrades were projected to greatly increase the treatment capacity of the EWWTF and were expected to meet NPDES Permit Discharge Limits for Ammonia, TSS,

and BOD. Following the completion of the SSU, the City is successfully meeting the NPDES Permit Limits for these pollutants of concern. In addition, the City consistently adhered to NPDES Permit Discharge Limits while the SSU was taken partially offline for warranty construction during Summer 2020. As significant wastewater flows during storm events are further mitigated through the City's combined sewer separation program, the City expects to consistently meet NPDES Permit Discharge Limits for Ammonia, TSS, and BOD.

Although the preliminary performance results of the SSU are promising for Ammonia, TSS, and BOD, further analysis of the SSU improvements will be required to fully determine the success of the upgrades. The City plans to continue reporting concentration and mass loads for ammonia, TSS, and BOD to MassDEP and EPA as required under their NPDES Permit. As part of the WMP Phase III Report (December 2023), the City plans to provide additional data and analysis to review the success of the SSU over the longer three-year period. To date, the City has not received a new NPDES Permit for the EWWTF. As a result, the City has been unable to engage in discussions related to adjustments in permit limits for aluminum and copper. Once received, the City will further analyze copper and aluminum discharge concentrations under the new Permit Limits.

5.10.1 Phosphorus Discharge

As previously discussed in this report, the City has been actively working to comply with the interim seasonal phosphorus discharge limit of 0.5 mg/L (12-month rolling average). After full implementation of the SSU upgrades in May 2020, the City experienced promising results in the monthly phosphorus discharge concentrations (0.27 mg/L discharge concentration and 21.4 lbs./day). However, the City experienced heightened discharge limits due to the system undergoing warranty construction work. Following final completion of the SSU in August 2020, the City began optimizing the system to enhance treatment capabilities. As a result, the EWWTF experienced spikes in phosphorus discharges. The City anticipates that further optimization will result in lower phosphorus discharge concentrations and will help the City consistently adhere to the Interim Phosphorus Discharge Limit.

In the next few months, the City plans to continue system optimization in order to reduce phosphorus discharges. In the WMP Phase III Report, the City will have gathered substantial data to further evaluate the need for additional phosphorus treatment through either further system optimization or construction projects.

6.0 CAPITAL IMPROVEMENT SCHEDULE UPDATE

As required in Paragraph 56 of the CD, Phase II of the WMP is required to provide a list of efforts planned for the next 3-year period, and an assessment of the abatement anticipated to be achieved related to such efforts (*United States, Commonwealth of Massachusetts v. City of Fitchburg*, 2012). Currently, the City is following the combined sewer separation program schedule outlined in the WMP Phase I Report. Future improvements to the EWWTF are dependent on the continued results of the SSU, which will be reported in December 2023 for Phase III of the WMP. As a result, the list of upcoming projects is related to the collection system, primarily focused on reducing wastewater flow during storm events and mitigating CSO discharges.

6.1 Capital Improvement Schedule

In the next three years, the City will have three major combined sewer separation projects underway, each in a different stage of development. The ongoing CSO 007, 011, 039, 048 Separation/Rehabilitation Project construction and post construction monitoring phases are anticipated to be completed within the three-year period. In addition, the investigation and design phases for the next two separation projects are anticipated to commence within the next three (3) years, with the construction of the CSO 010, 032, 045, 083 Separation/Rehabilitation Project anticipated to commence in April 2023. The City also plans to conduct combination manhole separations as funding is made available. The anticipated schedule and costs of these projects is provided in Table 11.

Table 11: Capital Improvement Schedule Update

Project	Task	Budgeted Cost	Start Date	Projected End Date
CSO 007, 011, 039, 048 Separation/Rehabilitation	Construction (including post construction monitoring and engineering oversight)	$8,668,408*	November 2020	October 2023
CSO 010, 032, 045, 083 Separation/Rehabilitation	Investigation	$1,048,700	July 2021	March 2023
	Design	$2,226,180	July 2021	March 2023
	Construction (including post construction monitoring and engineering oversight)	$21,352,620	April 2023	December 2025
CSO 004 Separation/Rehabilitation	Investigation	$694,900	July 2023	March 2025
	Design	$570,300	July 2023	March 2025
Combination Manhole Separation Program	Yearly Combination Manhole Separations (Construction)	$365,800	July 2021	June 2022

*Cost is taken from the bid tabulation for the project.

6.2 Assessment of Capital Improvement Schedule Abatements

The City is expected to achieve CSO and I/I abatement as part of the upcoming capital improvement projects listed in Table 11 through both I/I removal and CSO mitigation. Each project is explained in more detail below.

6.2.1 CSO 007, 011, 039, 048 Separation/Rehabilitation

Following the conclusion of the construction phase of the CSO 007, 011, 039, 048 Separation/Rehabilitation Project, the City will successfully close three CSO regulators (CSO 007, 039, and 048) that have contributed an estimated 14.1 million gallons of CSO overflows to the North Nashua River between 2012 and 2019. The construction will also result in the separation of 17 combination manholes, of which 15 have had a history of transferences between the sewer and drain. It should be noted that CSO 011 was previously separated, although combined sewers remained upstream. Significant inflow is expected to be removed through the separation work, as 33 catch basins will be removed from the wastewater collection system.

6.2.2 CSO 010, 032, 045, 083 Separation/Rehabilitation

In July 2021, the City is planning to commence the next separation project, the CSO 010, 032, 045, 083 Separation/Rehabilitation Project. Although no abatement will be completed in the next three years, the investigation and design will be completed, with the construction anticipated to start in April 2023. The project will close four CSO regulators (CSO 010, 032, 045, and 083), which have contributed an estimated 32.2 million gallons of CSO overflows to the North Nashua River between 2015 and 2019. The project is expected to separate 27,600 LF of combined sewers and investigate/rehabilitate 33,000 LF of sanitary sewers. In addition, 11 combination manholes upstream of CSO regulators 010, 032, 045, and 83 are expected to be separated as part of the project. A map of the project area is provided in Figure 6.

As previously discussed in this report, the investigation portion of the project will include approximately 60,600 LF of CCTV inspection review, 425 manhole/catch basin inspections, 60,600 LF of smoke testing, dye testing/flooding as required, and 910 building inspections to identify private inflow sources in the project area. Under the design phase, construction contract documents will be prepared, along with an instrument survey and subsurface soil investigations. A map of the project area is provided in Figure 6. The City submitted for SRF funding for the investigation phase of the project and will commence work in 2021 if the funding is received. In addition, the City plans to submit for SRF funding for the construction phase of the project in August 2021.

6.2.3 CSO 004 Separation/Rehabilitation Project

In July 2023, the City plans to begin the investigation and design of the CSO 004 Separation/Rehabilitation Project. Since construction is not expected to commence until April 2025, CSO and I/I mitigation will not be achieved in the next three years. However, after the completion of the construction phase, the City will be able to close CSO 004, which has contributed 425,000 gallons of CSO overflows to the North Nashua River between 2013 and 2019. In addition, I/I mitigation is expected in the area through sewer rehabilitation. Through the investigation phase, 42,750 LF of sewers and 202 manholes/catch basins will be investigated. In addition, approximately 42,750 LF of sewers will be smoke tested with accompanied dye testing/flooding, and as many as 700 buildings will be inspected. The construction phase is expected to begin in Spring 2025.

6.2.4 Combination Manhole Separation Program

To date, the City has actively separated combination manholes when funding is available. In 2020, preliminary design plans for 150 combination manhole separations were provided to the City and are currently under review. The City has separated 98 combination manholes between 2016 and 2020, including 22 in 2020. Moving forward, the City plans to integrate the combination manhole separation program with the scheduled combined sewer separation projects, which will help achieve an accelerated, cost-effective method for combination manhole separation. Under this method, the City is expecting to conduct as many as 11 combination manhole separations during the construction phase of the CSO 010, 032, 045, 083 Separation/Rehabilitation Project and 39 combination manhole separations upstream of CSO 004 during the CSO 004 Separation/Rehabilitation (expected to commence in Spring 2025). The remaining combination manholes that are not upstream of combined sewers that have shown signs of transference will be separated when funding is available and in advance of the completion of the remaining combined sewer separation projects.

6.3 Conclusion

The City continues to actively work towards meeting the requirements of the CD. In the next three-year period, the majority of capital improvement projects will be focused on CSO mitigation through sewer separation, and additional I/I mitigation through combination manhole separations and sewer rehabilitation. As CSO and I/I mitigations are conducted, the City anticipates seeing decreases in total and peak wastewater flows during storm events.

Although the preliminary performance results of the SSU indicate improvements to wastewater flow capacity and treatment, the City will continue to monitor the performance results in order to fully assess the success of the SSU. In the WMP Phase III Report, which has a CD submittal deadline of December 31, 2023, the City plans to reassess the success of the SSU. As part of the assessment, the City will review phosphorus discharges to comprehensively evaluate the City's ability to meet Phosphorus NPDES Permit Discharges following the completion of the SSU and future CSO and I//I mitigation projects.

7.0 REFERENCES

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FIGURES

ASHBURNHAM
ASHBY
TOWNSEND
WESTMINSTER
LUNENBURG
LEOMINSTER
N
Stewart Road
Billings Road
Arm-how Farm Road
Caswell Road
Ashby West Road
Ridge Road
Stoneybrook Road
High Rock Road
Pearl Hill Road
Ashby State Road
Richardson Road
16
Scott Road
Ashburnham Hill Road
Sheldon Road
Williams Road
McIntire Road
Stickney Road
Alpine Road
Fisher Road
Wilkinson Way
15
John Fitch Highway
Blossom Street
Flat Rock Road
Prospect Street
Nichols Road
Mechanic Street
Marshall Street
View Street
Mount Vernon Street
Ridge Road
Marshall Road
5
4
14
Townsend Street
Pearl Street
Klondike Avenue
13
North Street
12
East Street
Lincoln Street
Ashburnham Street
7
6
Bishop Road
Wallace Road
River Street
Leighton Street
Main Street
Kimball Street
Boulder Drive
19
Laurel Street
Harrington Avenue
John Fitch Highway
11
Westminster Hill Road
8
Sanborn Street
Fairmount Street
Daniels Street
Pratt Road
Hazel Street
Charles Street
Bowyer Passway
2
3
Boutelle Street
Summer Street
Bemis Road
Depot Street
Franklin Road
Central Avenue
9
22
Hurd Street
Chester Street
Madison Street
Beech Street
Rollstone Street
Wallom Street
Milk Street
Ellis Street
Alden Mills Way
Water Street
Industrial Road
Westminster Street
23
21
Oak Hill Road
Theresa Street
Electric Avenue
18
Heywood Street
Belmont Street
Laurel Avenue
Eastern Avenue
Abbot Street
Canon Street
South Street
Meadowbrook Lane
Airport Road
Fadulati Street
Benson Street
Crawford Street
WESTERLY WASTEWATER TREATMENT FACILITY
Princeton Road
Newark Way
Fifth Massachusetts Turnpike
Authority Drive
10
Old Princeton Road
Princeton Road
24
Shea Street
Keefe Street
Hollywood Street
Rollstone Road
20
Tibbett Circle
Mount Elam Road
Saddleback Road
Bridle Cross Road
Route 2
17
Warrenoroc Road
Congress Street
Abbott Avenue
Olin Avenue
1
EASTERLY WASTEWATER TREATMENT FACILITY
2A
2
12

1,500 0 1,500
Scale In Feet

Legend

- Sewer Pump Stations
- **Sewer System**
- Standard MH
- Combination MH
- Regulator MH
- Siphon
- Sewer
- Combined
- Force
- Asset Areas
- Wastewater Treatment Facility
- Building
- Right of way
- Hydrologic Connection
- Marsh/Bog
- Wooded marsh
- Open Water
- Town Border

FIGURE 1

CITY OF FITCHBURG, MASSACHUSETTS
WASTEWATER MANAGEMENT PLAN PHASE II

SEWER SYSTEM

DECEMBER 2020 SCALE: NOTED

Weston & Sampson

Path: \\wse01-local\WSE\Departments\Sewer\Fitchburg MA\Project\EN20-246\Sewer System Fig 1.mxd User: houghton Saved: 10/6/2020 1:14:13 PM Opened: 12/28/2020 3:20:56 PM

Legend

- Regulator Manhole
- Sewer Main
- Building
- Right of way
- Hydrologic Connection
- Marsh/Bog
- Wooded marsh
- Open Water
- SSES Phase III

Recommended Investigation/Separation Area

- CSO-004
- CSO-010
- CSO-032
- CSO-045
- CSO-076
- CSO-083
- CSO-064 (Remaining To Be Investigated)

LUNENBURG

WESTMINSTER

LEOMINSTER

SSES Phase III

CSO-004

CSO-010

CSO-032

CSO-045

CSO-076

CSO-083

004 010 032 045 083 076 064 041

N

1,250 0 1,250
Scale In Feet

FIGURE 2

CITY OF FITCHBURG, MASSACHUSETTS
WASTEWATER MANAGEMENT PLAN PHASE II

WASTEWATER MANAGEMENT PLAN
PHASE I RECOMMENDATIONS

DECEMBER 2020 SCALE: NOTED

Weston & Sampson

Legend

- Elm Street Sewer Repair
- Combination Manhole Separation Program
- CSO 007, 011, 039, 048 Separation/Rehabilitation Project *Construction is underway and will be completed in 2022*
- Sewer System Evaluation Survey Phase IV Interceptor Evaluation
- Siphons/Various Sewers Heavy Cleaning and Inspection
- Manhole
- Sewer
- Combined Sewer
- Force Main
- Building
- Hydrologic Connection
- Marsh/Bog
- Wooded marsh
- Open Water

LUNENBURG

LEOMINSTER

WESTMINSTER

WESTMINSTER

N

1,250 0 1,250

Scale In Feet

FIGURE 3

CITY OF FITCHBURG, MASSACHUSETTS
WASTEWATER MANAGEMENT PLAN PHASE II

RECENT
INFRASTRUCTURE IMPROVEMENTS

DECEMBER 2020 SCALE: NOTED

Weston & Sampson℠

FIGURE 4

CITY OF FITCHBURG, MASSACHUSETTS
WASTEWATER MANAGEMENT PLAN PHASE II

EASTERLY WASTEWATER TREATMENT FACILITY OVERVIEW

DECEMBER 2020 SCALE: NOTED

Weston & Sampson SM

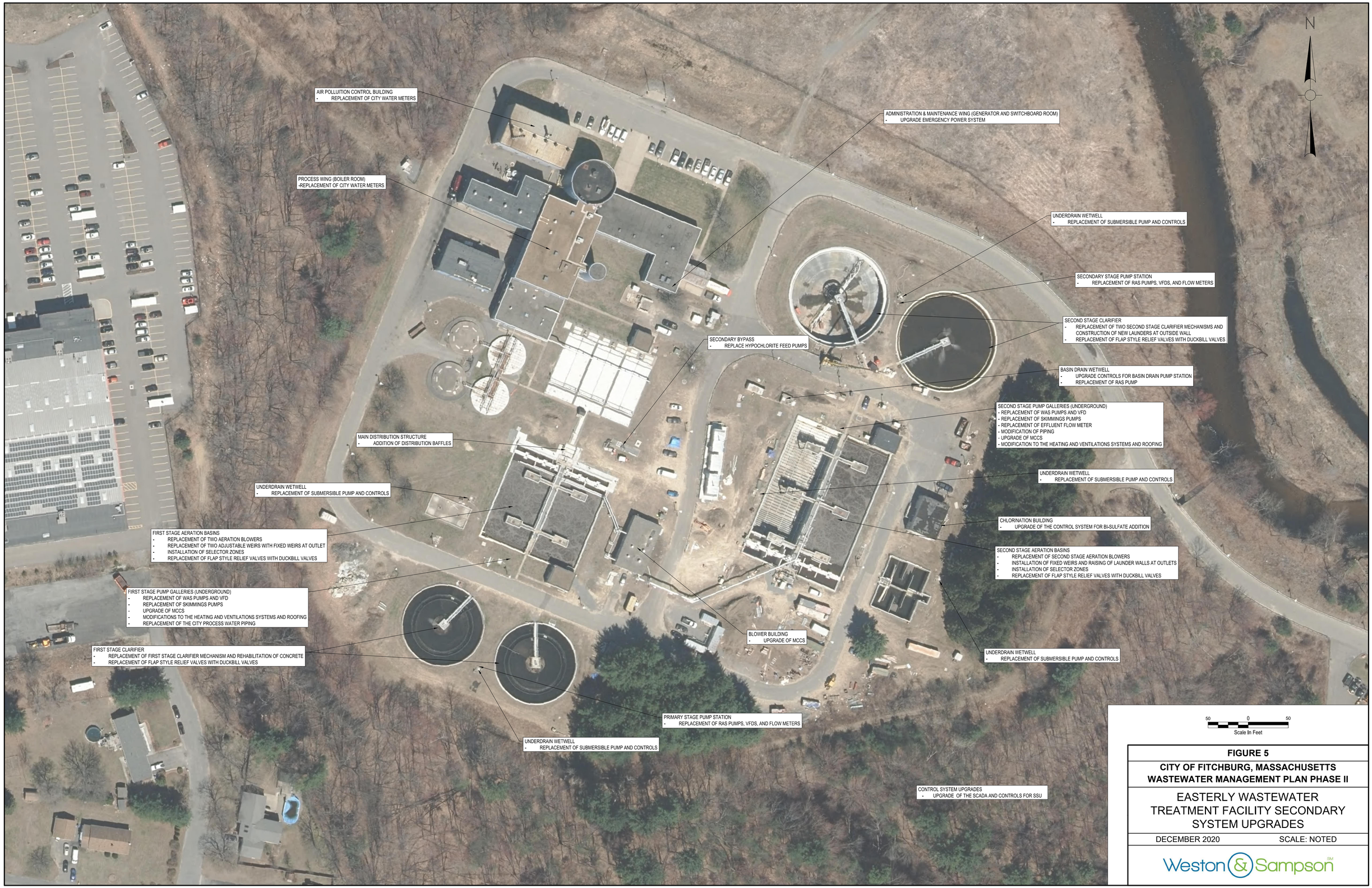

FIGURE 5

CITY OF FITCHBURG, MASSACHUSETTS
WASTEWATER MANAGEMENT PLAN PHASE II

EASTERLY WASTEWATER TREATMENT FACILITY SECONDARY SYSTEM UPGRADES

DECEMBER 2020 SCALE: NOTED

Weston & Sampson℠

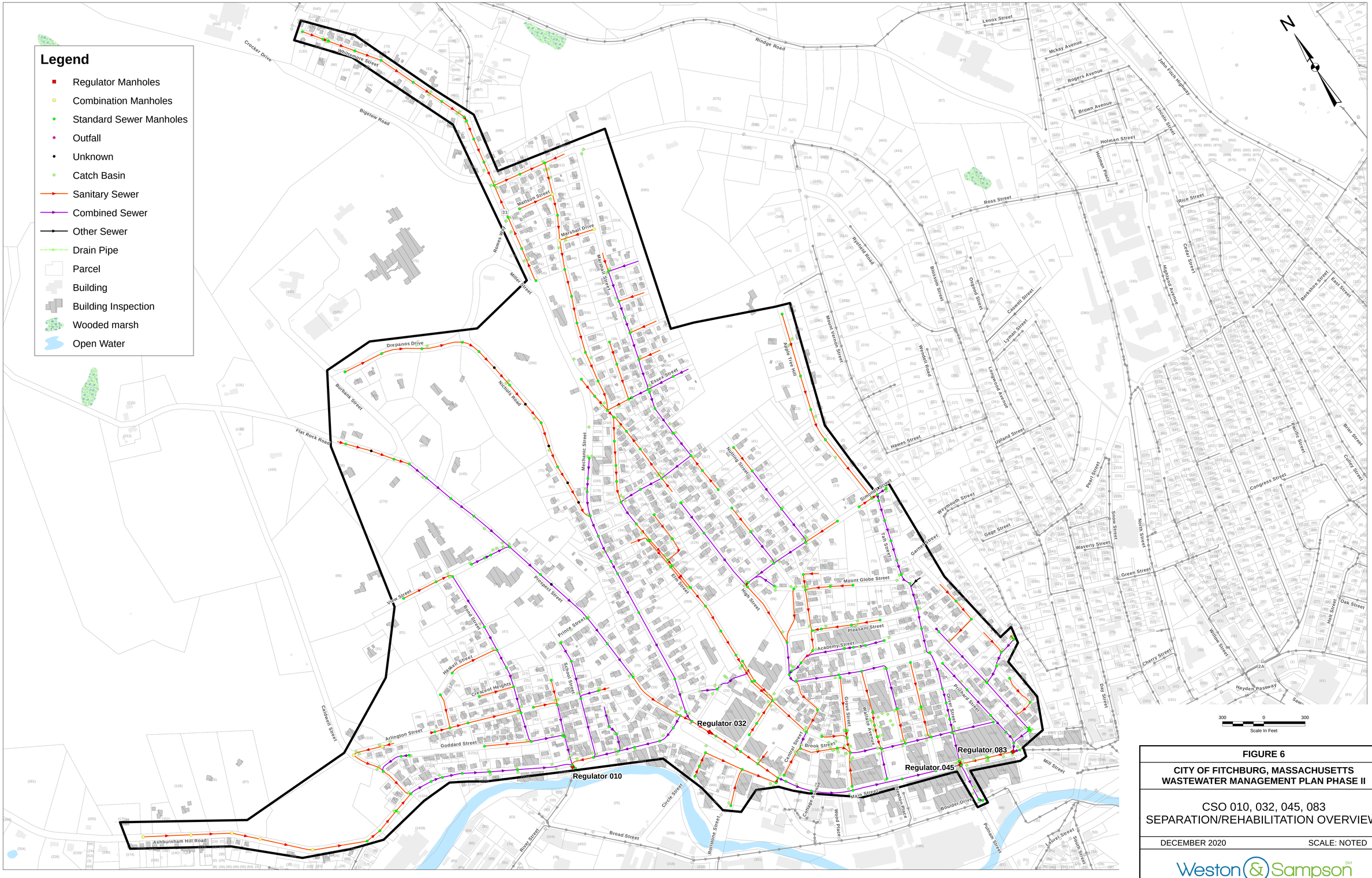

FIGURE 6

CITY OF FITCHBURG, MASSACHUSETTS
WASTEWATER MANAGEMENT PLAN PHASE II

CSO 010, 032, 045, 083
SEPARATION/REHABILITATION OVERVIEW

DECEMBER 2020 SCALE: NOTED

Weston & Sampson℠

APPENDIX A

NPDES Permit

AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Federal Clean Water Act as amended, (33 U.S.C. §§1251 et seq.; the "CWA"), and the Massachusetts Clean Waters Act, as amended, (M.G.L. Chap. 21, §§26-53),

City of Fitchburg
Wastewater Treatment Facilities Commission

is authorized to discharge from the facility located at:

Fitchburg East Wastewater Treatment Facility
24 Landies Lane
Fitchburg, MA 01420
and Combined Sewer Overflows listed in Attachment A

to receiving waters named:

North Nashua River (Outfall 063 and 18 CSOs), **Sand Brook** (1 CSO), **Birch Brook** (3 CSOs), **Baker Brook** (2 CSOs), **Punch Brook** (5 CSOs), **and unnamed tributaries** (4 CSOs) **in the Nashua River Watershed - MA81-03**

in accordance with effluent limitations, monitoring requirements and other conditions set forth herein.

This permit shall become effective on **September 1, 2010**

This permit and the authorization to discharge expire at midnight, five (5) years from the last day of the month preceding the effective date.

This permit supersedes the permit issued on September 13, 2002.

This permit consists of 20 pages in Part I including effluent limitations, monitoring requirements, Attachments A, B, C, & D, and 25 pages in Part II (Standard Conditions).

Signed this 22nd day of July, 2010

Director
Office of Ecosystem Protection
Environmental Protection Agency
Boston, MA

Director
Division of Watershed Management
Department of Environmental Protection
Commonwealth of Massachusetts
Boston, MA

PART I

A.1.During the period beginning the effective date and lasting through expiration, the permittee is authorized to discharge from outfall serial number **063,** treated effluent to the North Nashua River. Such discharge shall be limited and monitored by the permittee as specified below.

EFFLUENT CHARACTERISTIC	EFFLUENT LIMITS						MONITORING REQUIREMENTS	
	Mass Limits			Concentration Limits				
PARAMETER	**AVERAGE MONTHLY**	**AVERAGE WEEKLY**	**MAXIMUM DAILY**	**AVERAGE MONTHLY**	**AVERAGE WEEKLY**	**MAXIMUM DAILY**	**MEASUREMENT FREQUENCY**	**SAMPLE TYPE[3]**
FLOW[1]	***	***	***	Report MGD	***	Report MGD	CONTINUOUS	RECORDER
FLOW[2]	***	***	***	12.4 MGD	***	***	CONTINUOUS	RECORDER
BOD_5[4] (November 1 to April 30)	2070 lbs/Day	3100 lbs/Day	3620 lbs/Day	20 mg/l	30 mg/l	35 mg/l	1/DAY	24-HOUR COMPOSITE[5]
BOD_5[4] (May 1 to October 31)	830 lbs/Day	1240 lbs/Day	1550 lbs/Day	8 mg/l	12 mg/l	15 mg/l	1/DAY	24-HOUR COMPOSITE[5]
TSS[4] (November 1 to April 30)	3100 lbs/Day	4650 lbs/Day	5170 lbs/Day	30 mg/l	45 mg/l	50 mg/l	1/DAY	24-HOUR COMPOSITE[5]
TSS[4] (May 1 to October 31)	1030 lbs/Day	1550 lbs/Day	2070 lbs/Day	10 mg/l	15 mg/l	20 mg/l	1/DAY	24-HOUR COMPOSITE[5]
pH RANGE[6]	6.5 - 8.3 SU SEE PERMIT PAGE 7 PARAGRAPH I.A.2.b.						1/DAY	GRAB
DISSOLVED OXYGEN (May 1 to October 31)	***	***	***	5.0 mg/l minimum			1/DAY	GRAB
FECAL COLIFORM [6,7] (See Schedule)	***	***	***	200 cfu/100 ml	***	400 cfu/100 ml	1/DAY	GRAB
ESCHERICHIA COLI [6,7] (See Schedule)	***	***	***	126 cfu/100 ml	***	409 cfu/100ml	1/DAY	GRAB

Part I.A.1. continued

EFFLUENT CHARACTERISTIC	EFFLUENT LIMITS						MONITORING REQUIREMENTS	
	Mass Limits			Concentration Limits				
PARAMETER	AVERAGE MONTHLY	AVERAGE WEEKLY	MAXIMUM DAILY	AVERAGE MONTHLY	AVERAGE WEEKLY	MAXIMUM DAILY	MEASUREMENT FREQUENCY	SAMPLE TYPE[3]
TOTAL RESIDUAL CHLORINE [7, 8, 9, 10]	***	***	***	18 ug/l	***	30 ug/l	3/DAY	GRAB
TOTAL RESIDUAL CHLORINE [7, 8, 9, 10]	***	***	***	Report mg/l	***	Report mg/l	CONTINUOUS	Recorder
TOTAL PHOSPHORUS (November 1- March 31)	***	***	***	1.0 mg/l	***	Report mg/l	1/WEEK	24-HOUR COMPOSITE[5]
TOTAL PHOSPHORUS (April 1- October 31) [11]	20.7 lbs/day	***	Report mg/l	0.2 mg/l	***	Report mg/l	3/WEEK	24-HOUR COMPOSITE[5]
ORTHO PHOSPHORUS, DISSOLVED [11] (November 1- March 31)	***	***	***	Report mg/l	***	Report mg/l	1/WEEK	24-HOUR COMPOSITE[5]
TOTAL AMMONIA, as N (November 1 – April 30)	Report lbs/Day	***	Report lbs/Day	Report mg/l	***	Report mg/l	1/WEEK	24-HOUR COMPOSITE[5]
TOTAL AMMONIA, as N (May 1- May 31)	Report lbs/Day	***	Report lbs/Day	5.0 mg/l	5.0 mg/l	8.0 mg/l	2/WEEK	24-HOUR COMPOSITE[5]
TOTAL AMMONIA, as N (June 1- October 31)	Report lbs/Day	***	Report lbs/Day	1.0 mg/l	1.0 mg/l	2.0 mg/l	3/WEEK	24-HOUR COMPOSITE[5]

Part I.A.1. continued

EFFLUENT CHARACTERISTIC	EFFLUENT LIMITS						MONITORING REQUIREMENTS	
	Mass Limits			Concentration Limits				
PARAMETER	AVERAGE MONTHLY	AVERAGE WEEKLY	MAXIMUM DAILY	AVERAGE MONTHLY	AVERAGE WEEKLY	MAXIMUM DAILY	MEASUREMENT FREQUENCY	SAMPLE TYPE[3]
TOTAL ALUMINUM	***	***	***	139 ug/l	***	Report ug/l	1/MONTH	24-HOUR COMPOSITE[5]
TOTAL CADMIUM [12]	***	***	***	0.3 ug/l	***	2 ug/l	1/MONTH	24-HOUR COMPOSITE[5]
TOTAL COPPER	***	***	***	27 ug/l	***	39 ug/l	1/MONTH	24-HOUR COMPOSITE[5]
TOTAL LEAD [12]	***	***	***	3 ug/l	***	62 ug/l	1/MONTH	24-HOUR COMPOSITE[5]
TOTAL ZINC	***	***	***	117 ug/l	***	117 ug/l	1/MONTH	24-HOUR COMPOSITE[5]
WHOLE EFFLUENT TOXICITY [13, 14, 16, 17]	Acute $LC_{50} \geq 100\%$						4/YEAR	24-HOUR COMPOSITE[5]
WHOLE EFFLUENT TOXICITY [13, 15, 16, 17]	Chronic NOEC ≥ 62%						4/YEAR	24-HOUR COMPOSITE[5]

Sampling Location: Effluent samples shall be taken below the point that bypassed flows combine with the main flow and prior to discharge from Outfall 063.

Footnotes:

1. The monthly average and maximum daily flows for each month shall be reported. An attachment to the monthly DMRs containing the date, time of initiation, duration, and estimated total daily volume for all bypasses, as well as the total and maximum WWTF flow for each day that there was a bypass, shall be submitted each month. The permittee shall not accept septage during any calendar day in which a bypass of secondary treatment is anticipated.

2. This is an annual average limit, which shall be reported as a rolling average. The rolling average will be calculated as the arithmetic mean of the monthly average flow for the reporting month and the monthly average flows for the previous 11 months.

3. All required effluent samples shall be taken at the point specified on Page 4. All sampling shall be representative of the effluent that is discharged through Outfall 063 to the North Nashua River. A routine sampling program shall be developed in which samples are taken at the same location, same time and same day(s) of every month. Any deviations from the routine sampling program shall be documented in correspondence appended to the applicable discharge monitoring report that is submitted to EPA. In addition, all samples shall be analyzed using the analytical methods found in 40 CFR §136, or alternative methods approved by EPA in accordance with the procedures in 40 CFR §136.

4. Sampling required for influent and effluent. Influent samples shall be taken prior to the introduction of all recycle flows.

5. 24-hour composite samples will consist of at least twenty four (24) grab samples taken during one consecutive 24 hour period (e.g. 0700 Monday - 0700 Tuesday), either collected at equal intervals and combined proportional to flow or continuously collected proportionally to flow.

6. Required for State Certification.

7. Fecal coliform, *Escherichia coli* bacteria, and total residual chlorine limits and monitoring requirements are in effect year round. The average monthly limits for fecal coliform and *E.coli* are expressed as geometric means. Samples for fecal coliform bacteria and *E. coli* shall be taken at the same time as a total residual chlorine sample. An attachment to the monthly DMRs containing all individual sampling results for fecal coliform, *Escherichia coli* bacteria, and total residual chlorine, including the date and time of the sample and whether or not the facility was bypassing at the time of the sample, shall be submitted each month.

   The fecal coliform limits and monitoring requirements are in effect for one year after the effective date of this permit. One year from the effective date of this permit, the fecal coliform limits and monitoring requirements will end.

   The *E. coli* effluent limitations go into effect one year from the effective date of the permit. The monitoring and report requirements for *E. coli* go into effect on the effective date of this permit. The monitoring frequency for *E. coli* is 1/month during the first year after the effective date of the permit and 1/day thereafter.

8. The minimum level (ML) for total residual chlorine is defined as 20 ug/l. This value is the minimum level for chlorine using EPA approved methods found in the most currently approved edition of Standard Methods for the Examination of Water and Wastewater, Method 4500 CL-E and G.. One of these methods must be used to determine total residual chlorine. For effluent limitations less than 20

ug/l, compliance will be determined based on the ML. Sample results of less than 20 ug/l shall be reported as zero on the DMR.

9. The permittee shall collect and analyze a minimum of three grab samples per day from outfall 063 for determination of compliance with the monthly average and maximum daily limits. The permittee shall also report the monthly average and daily maximum discharge of TRC from outfall 063 using data collected by the continuous TRC analyzer. Four continuous recording charts (1/week), showing weekly data shall be submitted with the monthly DMRs. An attachment to the monthly DMRs containing the following information shall also be submitted each month:

   a. The average monthly, maximum daily and maximum instantaneous concentrations as measured by the continuous analyzer;

   b. A comparison between the results of the grab samples and the continuous analyzer reading, including the time of the grab samples;

   c. The total duration of time during the month that the continuous analyzer measurements were greater than the monthly average effluent limitation: and

   d. The total duration of time during the month that the continuous analyzer measurements were greater than the maximum daily effluent limitation.

10. Chlorination and dechlorination systems shall include an alarm system for indicating system interruptions or malfunctions. Any interruption or malfunction of the chlorine dosing system that may have resulted in levels of chlorine that were inadequate for achieving effective disinfection or interruptions or malfunctions of the dechlorination system that may have resulted in excessive levels of chlorine in the final effluent shall be reported with the monthly DMRs. The report shall include the date and time of the interruption or malfunction, the nature of the problem, and the estimated amount of time that the reduced levels of chlorine or dechlorination chemicals occurred.

11. The maximum daily concentration of orthophosphorus shall be the value from the same day the maximum daily total phosphorus value was measured.

12. The minimum level (ML) for total cadmium and total lead is defined as 0.5 ug/l. This value is the minimum reporting level for cadmium and lead using EPA approved methods found in the most currently approved edition of Standard Methods for the Examination of Water and Wastewater or USEPA Manual of Methods of Chemical Analysis of Water and Wastes. For effluent limitations less than 0.5 ug/l, compliance will be determined based on the ML. Sample results of less than 0.5 ug/l shall be reported as zero on the DMR.

13. The permittee shall conduct chronic (and modified acute) toxicity tests four (4) times per year using two species, the daphnid, Ceriodaphnia dubia and fathead minnow, Pimephales promelas. The chronic test may be used to calculate the acute LC_{50} at the 48 hour exposure interval. Toxicity test samples shall be collected during the second week of the months of March, June, September and December. The test results shall be submitted by the last day of the month following the completion of the test. The results are due by April 30, July 31, October 31 and January 31, respectively. The tests must be performed in accordance with test procedures and protocols specified in **Attachment B** of this permit.

14. The LC_{50} is the concentration of effluent which causes mortality to 50% of the test organisms. Therefore, a 100% limit means that a sample of 100% effluent (no dilution) shall cause no more than a

50% mortality rate.

15. C-NOEC (chronic-no observed effect concentration) is defined as the highest concentration of toxicant or effluent to which organisms are exposed in a life cycle or partial life cycle test which causes no adverse effect on growth, survival, or reproduction at a specific time of observation. The "62% or greater" limit is defined as a sample which is composed of 62% (or greater) effluent, the remainder being dilution water.

16. Synthetic, soft reconstituted water prepared in accordance with Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Water to Freshwater Organisms (EPA/600/4-91/002) is authorized for use as dilution water in P. promelas tests. The permittee must continue to run the required sets of controls including chemistry (e.g. site water controls and lab water controls) when utilizing alternative dilution water.

17. If Ceriodaphnia dubia toxicity test(s) using receiving water as diluent show the receiving water to be toxic or unreliable, the permittee shall follow procedures outlined in **Attachment B** Toxicity Test Procedure and Protocol, Section IV, Dilution Water, in order to obtain permission to use an alternate dilution water or the permittee shall follow the Self-Implementing Alternative Dilution Water Guidance document which may be used to obtain automatic approval of an alternate dilution water, including the appropriate species for use with that water. This guidance is found in Attachment G of the NPDES Permit Program Instructions for the Discharge Monitoring Forms (DMRs) available on the EPA Region I website at http://www.epa.gov/region1/enforcementandassistance/dmr.html. If this Guidance document is revoked, the permittee shall revert to obtaining approval as outlined in **Attachment B**. Any modification or revocation to this guidance will be transmitted to the permittees as part of the annual DMR instruction package. However, at any time, the permittee may choose to contact EPA-New England directly using the approach outlined in **Attachment B**. The permittee must continue to run the required sets of controls including chemistry (e.g. site water controls and lab water controls) when utilizing alternative dilution water.

Part I.A.2.

a. The discharges shall not cause a violation of the water quality standards of the receiving waters.

b. The pH of the effluent shall not be less than 6.5 or greater than 8.3.

c. The discharges shall not cause objectionable discoloration of the receiving waters.

d. The effluent shall contain neither a visible oil sheen, foam, nor floating solids at any time.

e. The permittee's treatment facility shall maintain a minimum of 85 percent removal of both total suspended solids and biochemical oxygen demand. The percent removal shall be based on monthly average values.

f. If the annual average flow in any calendar year exceeds 80 percent of the facility's design flow, the permittee shall submit a report to MassDEP by March 31 of the following year describing its plans for further flow increases and describing how it will maintain compliance with the flow limit and all other effluent limitations and conditions.

g. The permittee shall minimize the use of chlorine while maintaining adequate bacterial control.

h. The results of sampling for any parameter in accordance with EPA approved methods above its required frequency must also be reported.

3. All POTWs must provide adequate notice to the Director of the following:

a. Any new introduction of pollutants into that POTW from an indirect discharger in a primary industry category discharging process water; and

b. Any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit.

c. For purposes of this paragraph, adequate notice shall include information on:

(1) the quantity and quality of effluent introduced into the POTW; and

(2) any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.

4. Prohibitions Concerning Interference and Pass Through:

a. Pollutants introduced into POTWs by a non-domestic source (user) shall not pass through the POTW or interfere with the operation or performance of the works.

5. Toxics Control

a. The permittee shall not discharge any pollutant or combination of pollutants in toxic amounts.

b. Any toxic components of the effluent shall not result in any demonstrable harm to aquatic life or violate any state or federal water quality standard which has been or may be promulgated. Upon promulgation of any such standard, this permit may be revised or amended in accordance with such standards.

6. Numerical Effluent Limitations for Toxicants

EPA or MassDEP may use the results of the toxicity tests and chemical analyses conducted pursuant to this permit, as well as national water quality criteria developed pursuant to Section 304(a)(1) of the Clean Water Act (CWA), state water quality criteria, and any other appropriate information or data, to develop numerical effluent limitations for any pollutants, including but not limited to those pollutants listed in Appendix D of 40 CFR Part 122.

B. UNAUTHORIZED DISCHARGES

The permittee is authorized to discharge only in accordance with the terms and conditions of this permit and only from the outfalls listed in Part I.A.1. and Attachment A of this permit. Discharges of wastewater from any other point sources, including sanitary sewer overflows (SSOs) are not authorized by this permit and shall be reported in accordance with Section II. D.1.e. (1) of the General Requirements of this permit (Twenty-four hour reporting).

C. OPERATION AND MAINTENANCE OF THE SEWER SYSTEM

Operation and maintenance of the sewer system shall be in compliance with the General Requirements of Part II and the following terms and conditions:

1. Maintenance Staff

The permittee shall provide an adequate staff to carry out the operation, maintenance, repair, and testing functions required to ensure compliance with the terms and conditions of this permit.

2. Preventative Maintenance Program

The permittee shall maintain an ongoing preventative maintenance program to prevent overflows and bypasses caused by malfunctions or failures of the sewer system infrastructure. The program shall include an inspection program designed to identify all potential and actual unauthorized discharges.

3. Infiltration/Inflow Control Plan:

The permittee shall develop and implement a plan to control infiltration and inflow (I/I) to the separate sewer system. The plans shall be submitted to EPA and MassDEP **within twelve (12) months of the effective date of this permit** (see page 1 of this permit for the effective date) and shall describe the permittee's program for preventing infiltration/inflow related effluent limit violations, and all unauthorized discharges of wastewater, including overflows and by-passes due to excessive infiltration/inflow. The I/I plan requirements constitute an update of the previously required plan.

The plan shall include:

a. An ongoing program to identify and remove sources of infiltration and inflow. The program shall include the necessary funding level and the source(s) of funding;

b. An inflow identification and control program that focuses on the disconnection and redirection of illegal sump pumps and roof down spouts. Priority should be given to removal of public and private inflow sources that are upstream from, and potentially contribute to, known areas of sewer system backups and/or overflows;

c. Identification and prioritization of areas that will provide increased aquifer recharge as a result of reduction/elimination of infiltration and inflow to the system; and

d. An educational public outreach program for all aspects of I/I control, particularly private inflow.

4. Reporting Requirements:

A summary report of all actions taken to minimize I/I during the previous calendar year shall be submitted to EPA and the MassDEP annually, **by March 31**. The summary report shall, at a minimum, include:

a. A map and a description of inspection and maintenance activities conducted and corrective actions taken during the previous year.

b. Expenditures for any infiltration/inflow related maintenance activities and corrective

actions taken during the previous year.

c. A map with areas identified for I/I-related investigation/action in the coming year.

d. A calculation of the annual average I/I, the maximum month I/I for the reporting year.

e. A report of any infiltration/inflow related corrective actions taken as a result of unauthorized discharges reported pursuant to 314 CMR 3.19(20) and reported pursuant to the Unauthorized Discharges section of this permit.

5. Alternate Power Source

In order to maintain compliance with the terms and conditions of this permit, the permittee shall provide an alternative power source with which to sufficiently operate its treatment works (as defined at 40 CFR §122.2).

D. COMBINED SEWER OVERFLOWS (CSOs)

1. Effluent Limitations

During wet weather, the permittee is authorized to discharge storm water/wastewater from combined sewer outfalls listed in **Attachment A**, subject to the following effluent limitations:

a. The discharges shall receive treatment at a level providing Best Practicable Control Technology Currently Available (BPT), Best Conventional Pollutant Control Technology (BCT) to control and abate conventional pollutants and Best Available Technology Economically Achievable (BAT) to control and abate non-conventional and toxic pollutants. The EPA has made a Best Professional Judgment (BPJ) determination that BPT, BCT, and BAT for combined sewer overflow (CSO) control includes the implementation of Nine Minimum Controls (NMC) specified below and detailed further in Part I.D.2, "Nine Minimum Controls Minimum Implementation Levels" of this permit:

(1) Proper operation and regular maintenance programs for the sewer system and the combined sewer overflows;

(2) Maximum use of the collections system for storage;

(3) Review and modification of the pretreatment program to assure CSO impacts are minimized;

(4) Maximization of flow to the POTW for treatment;

(5) Prohibition of dry weather overflows from CSOs;

(6) Control of solid and floatable materials in CSOs;

(7) Pollution prevention programs that focus on contaminant reduction activities;

(8) Public notification to ensure that the public receives adequate notification of CSO occurrences and impacts;

(9) Monitoring to effectively characterize CSO impacts and the efficacy of CSO controls.

b. **Within 6 months of the effective date of this permit**, the permittee shall submit to EPA updated documentation on its implementation of the Nine Minimum Controls. Implementation of the Nine Minimum Controls is required by the effective date of the permit. EPA and MassDEP consider that approvable documentation must include the minimum requirements set forth in Part I.D.2 of this permit and additional activities the permittee can reasonably undertake.

c. The discharges shall not cause or contribute to violations of federal or state Water Quality Standards.

2. Nine Minimum Controls Minimum Implementation Levels

a. The permittee must implement the nine minimum controls in accordance with the documentation provided to EPA and MassDEP or as subsequently modified to enhance the effectiveness of the controls. This implementation must include the following controls plus other controls the permittee can reasonably undertake as set forth in the documentation.

b. Each CSO structure/regulator, pumping station and/or tidegate shall be routinely inspected, at a minimum of once per month, to insure that they are in good working condition and adjusted to minimize combined sewer discharges and tidal surcharging (NMC # 1, 2 and 4). The following inspection results shall be recorded: the date and time of inspection, the general condition of the facility, and whether the facility is operating satisfactorily. If maintenance is necessary, the permittee shall record: the description of the necessary maintenance, the date the necessary maintenance was performed, and whether the observed problem was corrected. The permittee shall maintain all records of inspections for at least three years.

Annually, no later than January 15th, the permittee shall submit a certification to MassDEP and EPA which states that the previous calendar year's monthly inspections were conducted, results recorded, and records maintained.

MassDEP and EPA have the right to inspect any CSO related structure or outfall at any time without prior notification to the permittee.

c. Discharges to the combined system of septage, holding tank wastes, or other material which may cause a visible oil sheen or containing floatable material are prohibited during wet weather when CSO discharges may be active (NMC # 3, 6, and 7).

d. Dry weather overflows (DWOs) are prohibited (NMC # 5). All dry weather sanitary and/or industrial discharges from CSOs must be reported to EPA and MassDEP orally within 24 hours of the time the permittee becomes aware of the circumstances and a written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances (Paragraph D.1.e of Part II of this permit).

e. The permittee shall quantify and record all discharges from combined sewer outfalls (NMC # 9). Quantification may be through direct measurement or estimation. When estimating, the permittee shall make reasonable efforts, i.e. gauging or measurements, to verify the validity of the estimation technique. The following information must be recorded for each combined sewer outfall for each discharge event:

- Estimated duration (hours) of discharge;
- Estimated volume (gallons) of discharge;
- National Weather Service precipitation data from the nearest gage where precipitation is available at daily (24-hour) intervals and the nearest gage where precipitation is available at one-hour intervals. Cumulative precipitation per discharge event shall be calculated.

The permittee shall maintain all records of discharges for at least six years after the effective date of this permit.

Annually, no later than January 15th, the permittee shall submit a report containing the required discharge monitoring information for all combined sewer discharges during the previous calendar year.

f. The permittee shall install and maintain identification signs for all combined sewer outfall structures (NMC # 8). The signs must be located at or near the combined sewer outfall structures and easily readable by the public. These signs shall be a minimum of 12 x 18 inches in size, with white lettering against a green background, and shall contain the following information:

CITY OF FITCHBURG
WET WEATHER
SEWAGE DISCHARGE
OUTFALL (discharge serial number)

3. Nine Minimum Controls Reporting Requirement

Annually, no later than January 15th, the permittee shall submit a report summarizing activities during the previous calendar year relating to compliance with the nine minimum controls including the required information on the frequency, duration, and volume of discharges from each CSO.

E. COMBINATION MANHOLES

1. All discharges of separate sanitary sewage to storm water drains that discharge to waters of the United Sates are unauthorized discharges pursuant to Part I.B of this permit and are subject to the requirements of that Part.

2. For all combination manholes indicating evidence of the transference of sewage to a storm drain or transference of storm water to the sanitary sewer, based on monitoring results including, but not limited to, the results reported in Attachment C of the City of Fitchburg's comment letter dated September 21, 2009, the manhole shall be completely separated or otherwise modified within two years of the monitoring date in order to control the transfer of sewage and/or storm water.

3. For years three through five of the permit, the permittee shall monitor all combination manholes, except those that have been completely separated, once per year for storm events that equal or exceed two inches in a 24-hour period. The required inspections shall be conducted within 96 hours of the end of two separate and distinct storm events that exceed one inch in a 24-hour period.

The monitoring plan shall include the installation of secured tell-tale blocks on the weir wall, to

determine if sanitary wastewater transfers from the sanitary sewer to the storm drain or if storm water transfers from the storm drain to the sanitary sewer, in conjunction with a surcharge detection device suitable for determining the extent of surcharging conditions in the manhole.

For all combination manholes indicating evidence of the transference of sewage to a storm drain or transference of storm water to the sanitary sewer, the manhole shall be completely separated or otherwise modified within two years of the monitoring date in order to control the transfer of sewage and/or storm water.

4. The City shall create a log for recording information from all combination manhole inspections. The log shall include the following information at a minimum:

   a. combination manhole identification number;
   b. date and time of the inspection;
   c. date and time that the monitoring mechanism was set or reset; and
   d. the duration and intensity of the storm event that immediately preceded the inspection.
   e. a description of evidence indicating whether there has been a surcharge event resulting in transference of sewage to the storm drain or transference of storm water to the sanitary sewer. If surcharge conditions occurred it shall be assumed that transference of sewage to the storm drain **and** transference of storm water to the sanitary sewer has occurred.

5. Within twelve (12) months of the effective date of the permit, the permittee shall identify and assess all combination manholes in the Collection System, and shall submit a report providing the location and a description of each manhole (the "Combination Manhole Report") to EPA and MassDEP. For each combination manhole, the report shall include:

   a. the street address;
   b. a distinct identification number;
   c. a description or schematic of the control system within the manhole, including relative elevations of sewer and storm drain inverts, diameter of sewer and storm drain pipes, control structures separating pipes (weir walls, covers, etc);
   d. a determination of whether the storm sewer served by the combination manhole discharges to a surface water;
   e. a description and schematic of the sewer and storm drain entering and leaving the manhole, including proximity of the sewers and storm drains (i.e. over and under in a common trench vs. separate trench construction); and
   f. a large scale map or maps including a GIS layer of both the Collection System and the storm water drainage system indicating the location of each combination manhole with the identification number, any other sanitary and storm water connections (e.g. connections other than combination manholes installed to relieve surcharging in either system), water resource areas (i.e. rivers, lakes, wetlands, etc) in the vicinity of the combination manhole, and the location of the outfall of the storm drain served by the combination manhole. The map shall clearly depict the size and direction of flow of all sewers in the Collection System and storm water drainage system and shall distinguish between combined and separate sanitary sewers.

7. Within twenty-four (24) months of the effective date of this permit, and annually thereafter, the permittee shall submit to EPA and MassDEP a report presenting the results of the monitoring, including but not limited to the information in the log book and a description of remediation measures taken.

F. DEVELOPMENT OF LIMITATIONS FOR INDUSTRIAL USERS

1. Pollutants introduced into POTWs by a non-domestic source (user) shall not pass through the POTW or interfere with the operation or performance of the works.

2. The permittee shall develop and enforce specific effluent limits (local limits) for Industrial User(s), and all other users, as appropriate, which together with appropriate changes in the POTW facilities or operation, are necessary to ensure continued compliance with the POTW's NPDES permit or sludge use or disposal practices. Specific local limits shall not be developed and enforced without individual notice to persons or groups who have requested such notice and an opportunity to respond. Within **120 days of the effective date of this permit**, the permittee shall prepare and submit a written technical evaluation to the EPA analyzing the need to revise local limits. As part of this evaluation, the permittee shall assess how the POTW performs with respect to influent and effluent pollutants, water quality concerns, sludge quality, sludge processing concerns/inhibition, biomonitoring results, activated sludge inhibition, worker health and safety and collection system concerns. In preparing this evaluation, the permittee shall complete and submit the attached form **Attachment C** with technical evaluation to assist in determining whether existing local limits need to be revised. Justifications and conclusions should be based on actual plant data if available and should be included in the report. Should the evaluation reveal the need to revise local limits, the permittee shall complete the revisions within 120 days of notification by EPA and submit the revisions to EPA for approval. The permittee shall carry out the local limits revisions in accordance with EPA's Local Limits Development Guidance (EPA 833-R-04-002A, July 2004).

G. INDUSTRIAL PRETREATMENT PROGRAM

1. The permittee shall implement the Industrial Pretreatment Program in accordance with the legal authorities, policies, procedures, and financial provisions described in the permittee's approved Pretreatment Program, and the General Pretreatment Regulations, 40 CFR 403. At a minimum, the permittee must perform the following duties to properly implement the Industrial Pretreatment Program (IPP):

   a. Carry out inspection, surveillance, and monitoring procedures which will determine, independent of information supplied by the industrial user, whether the industrial user is in compliance with the Pretreatment Standards. At a minimum, all significant industrial users shall be sampled and inspected at the frequency established in the approved IPP but in no case less than once per year and maintain adequate records.

   b. Issue or renew necessary industrial user control mechanisms within 90 days of their expiration date or within 180 days after the industry has been determined to be a significant industrial user.

   c. Obtain appropriate remedies for noncompliance by any industrial user with any pretreatment standard and/or requirement.

   d. Maintain an adequate revenue structure for continued implementation of the Pretreatment Program.

2. In accordance with 40 CFR Part 403.12(i), the permittee shall provide the EPA and MassDEP with an annual report describing the permittee's pretreatment program activities for the twelve month period ending December 31. The annual report shall be consistent with the format described in **Attachment D** of this permit and shall be submitted no later than **March 1st** of each year.

3. The permittee must obtain approval from EPA prior to making any significant changes to the industrial pretreatment program in accordance with 40 CFR 403.18(c).

4. The permittee must assure that applicable National Categorical Pretreatment Standards are met by all categorical industrial users of the POTW. These standards are published in the Federal Regulations at 40 CFR 405 et. seq.

5. The permittee must modify its pretreatment program to conform to all changes in the Federal Regulations that pertain to the implementation and enforcement of the industrial pretreatment program. The permittee must provide EPA, in writing, within 180 days of this permit's effective date, proposed changes to the permittee's pretreatment program deemed necessary to assure conformity with current federal regulations. At a minimum, the permittee must address in its written submission, if applicable, the following areas: (1) Enforcement response plan; (2) revised sewer use ordinances; and (3) slug control evaluations. The permittee will implement these proposed changes pending EPA Region I's approval under 40 CFR 403.18. This submission is separate and distinct from any local limits analysis submission described above.

H. SLUDGE CONDITIONS

1. Standard Conditions

   a. The permittee shall comply with all existing federal and state laws and regulations that apply to sewage sludge use and disposal practices and the Clean Water Act section 405(d) technical standards.

   b. The permittee shall comply with the more stringent of either the state or federal requirements.

   c. No person shall fire sewage sludge in a sewage sludge incinerator except in compliance with the requirements of 40 CFR part 503 subpart E.

2. Pollutant Limitations

   a. Firing of sewage sludge shall not violate the requirements of the National Emission Standard for beryllium in 40 CFR part 61, subpart C - 10 grams per 24-hour period.

   b. Firing of sewage sludge shall not violate the requirements in the National Emission Standard for mercury in 40 CFR part 61, subpart E - 3200 grams per 24-hour period.

   c. The daily concentration of the metals in the sewage sludge fed to the incinerator shall not exceed the limits specified below (dry weight basis):

Metal	Maximum Daily
Arsenic	169 mg/kg
Cadmium	119 mg/kg
Chromium	1.0×10^4 mg/kg
Lead	4747 mg/kg

3. Operational Standards

   a. The exit gas from the sewage sludge incinerator stack shall be monitored continuously for

carbon monoxide.

b. The monthly average concentration of carbon monoxide in the exit gas from the sewage sludge incinerator, corrected for zero percent moisture and to seven percent oxygen, shall not exceed **100 ppm on a volumetric basis.**

c. The CO concentration shall be corrected to zero percent moisture using the correction factor below:

$$\text{Correction factor} = \frac{1}{(1-X)}$$

Where : X = decimal fraction of the percent moisture in the sewage sludge incinerator exit gas in hundredths.

d. The measured CO concentration shall be corrected to seven percent oxygen using the correction factor below:

$$\text{Correction factor} = \frac{14}{(21-Y)}$$

Where: Y = percent oxygen concentration in the sewage sludge incinerator stack exit gas (dry volume/dry volume).

e. The measured CO value shall be multiplied by the correction factors in items c and d. The corrected CO value shall be used to determine compliance with paragraph b.

4. Management Practices

a. An instrument that continuously measures and records the carbon monoxide concentration in the sewage sludge incinerator stack exit gas shall be installed, calibrated, operated and maintained for each incinerator.

b. An instrument that continuously measures and records the oxygen concentration in the sewage sludge incinerator stack exit gas shall be installed, calibrated, operated and maintained for each incinerator.

c. An instrument that continuously measures and records combustion temperatures shall be installed, calibrated operated and maintained for each incinerator.

d. Operation of the incinerator shall not cause the operating combustion temperature for the incinerator to exceed the performance test combustion temperature by more than 20 percent.

e. Any air pollution control devices shall be appropriate for the type of incinerator and operating parameters for the air pollution control device shall be adequate to indicate proper performance of the air pollution control device. For incinerators subject to the requirements of 40 CFR subpart O, operation of the air pollution control device shall not violate the air pollution control device requirements of that part.

f. Sewage sludge shall not be fired in an incinerator if it is likely to adversely affect a

threatened or endangered species listed under section 4 of the Endangered Species Act or its designated critical habitat.

g. The permittee shall notify the EPA and MassDEP if any continuous emission monitoring equipment is shut down or broken down for more that 72 hours while the incinerator continues to operate.

h. Notification shall include the following:

(1) The reason for the shut down or break down;
(2) Steps taken to restore the system;
(3) Expected length of the down time; and
(4) The expected length of the incinerator operation during the down time of the monitoring system.

i. Break downs or shut downs of less than 72 hours shall be recorded in the operations log along with an explanation of the event.

j. Copies of all manufacturer's instructions shall be kept on file and be available during inspections.

5. Monitoring Frequency

a. The frequency of monitoring for beryllium shall be as required in 40 CFR Part 61, Subpart C.

b. The frequency of monitoring for mercury shall be as required in 40 CFR Part 61, Subpart E.

c. The pollutants in paragraph 2c shall be monitored at the following frequency – **once per 60 days (6 times per year)**.

d. After the sewage sludge has been monitored for the pollutants in paragraph 2c for two years at the frequency specified above, the permittee may request a reduction in the monitoring frequency.

e. The operating parameters for the air pollution control devices shall be monitored at the following frequency - **1/day**.

f. The CO concentration in the exit gas, the oxygen concentration in the exit gas, information from the instrument used to determine moisture content, and combustion temperatures shall be monitored at the following frequency - **continuously**.

6. Sampling and Analysis

a. The sewage sludge shall be sampled at a location which is prior to entering the incinerator and provides a representative sample of the sewage sludge being incinerated.

b. The sewage sludge shall be analyzed using "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", EPA publication SW-846, Second Edition (1982) with Updates I (April 1984) and II (April 1985) and Third Edition (November 1986) with

Revision I (December 1987).

c. If emission testing is done for demonstration of NESHAPS, testing shall be in accordance with Method 101A in 40 CFR part 60, Appendix B, "Determination of Particulate and Gaseous Mercury Emissions from Sewage Sludge Incinerators".

d. Sewage sludge samples for mercury shall be sampled and analyzed using Method 105 in 40 CFR part 61, Appendix B, "Determination of Mercury in Wastewater Treatment Plant Sewage Sludge".

7. Record Keeping Requirements

a. The concentrations of the pollutants in paragraph 2c. Report the maximum value of each pollutant.

b. The CO concentration in the exit gas from the incinerator stack. Report the average monthly concentration.

c. Information that demonstrates compliance with the National Emission Standard for beryllium.

d. Information that demonstrates compliance with the National Emission Standard for mercury. If sludge sampling is used, include calculation for compliance demonstration.

e. The operating combustion temperature for the sewage sludge incinerator.

f. Values for the air pollution control devices operating parameters. Report the average monthly operating values.

g. The oxygen concentration and the information used to measure moisture content in the exit gas from the sewage sludge incinerator. Report the oxygen concentration and percent moisture results which were used to determine the CO values reported in paragraph 7b.

h. The sewage sludge feed rate to the incinerator. Record the average daily and average monthly feed rate.

i. The stack height of the incinerator.

j. The dispersion factor for the site where the incinerator is located.

k. The control efficiency for arsenic, lead, chromium, cadmium and nickel.

l. A calibration and maintenance log for the instruments used to measure the CO concentration and the oxygen concentration in the exit gas; the information need to determine moisture content in the exit gas, and the combustion temperatures.

8. Reporting

The permittee shall report the information in paragraphs 7 (a-g) **annually on February 19**.

I. MONITORING AND REPORTING

Reporting

Monitoring results obtained during each calendar month shall be summarized and reported on Discharge Monitoring Report Form(s) postmarked no later than the **15th day of the following month.**

Signed and dated originals of these, and all other reports required herein, shall be submitted to the Director and the State (with the exception of whole effluent toxicity test reports which should not be sent to the MassDEP Central Regional Office) at the following addresses:

Water Enforcement
OES4-SM
U.S. Environmental Protection Agency
5 Post Office Square, Suite 100
Boston, Massachusetts 02109-3912

Massachusetts Department of Environmental Protection
Central Regional Office
Bureau of Resource Protection
627 Main Street,
Worcester, Massachusetts 01608

Industrial Pretreatment Program Reports should be sent to:

Massachusetts Department of Environmental Protection
Bureau of Waste Prevention
Industrial Wastewater Program
1 Winter Street
Boston, MA 02108

Massachusetts Department of Environmental Protection
Bureau of Waste Prevention
627 Main Street
Worcester, MA 01608

Signed and dated Discharge Monitoring Report Forms and toxicity test reports required by this permit shall also be submitted to the State at:

Massachusetts Department of Environmental Protection
Division of Watershed Management
Surface Water Discharge Permit Program
627 Main Street, 2nd Floor
Worcester, Massachusetts 01608

J. STATE PERMIT CONDITIONS

This Discharge Permit is issued jointly by the U. S. Environmental Protection Agency (EPA) and the Massachusetts Department of Environmental Protection (MassDEP) under Federal and State law, respectively. As such, all the terms and conditions of this permit are hereby incorporated into and constitute a discharge permit issued by the Commissioner of the MassDEP pursuant to M.G.L. Chap.

21, §43.

Each Agency shall have the independent right to enforce the terms and conditions of this permit. Any modification, suspension or revocation of this permit shall be effective only with respect to the Agency taking such action, and shall not affect the validity or status of this permit as issued by the other Agency, unless and until each Agency has concurred in writing with such modification, suspension or revocation. In the event any portion of this permit is declared, invalid, illegal or otherwise issued in violation of State law such permit shall remain in full force and effect under Federal law as an NPDES permit issued by the U.S. Environmental Protection Agency. In the event this permit is declared invalid, illegal or otherwise issued in violation of Federal law, this permit shall remain in full force and effect under State law as a permit issued by the Commonwealth of Massachusetts.

ATTACHMENT A

NPDES MA0100986

Combined Sewer Overflow Outfalls
City of Fitchburg

CSO Outfall #	Regulator Location	Receiving Water	Internal Regulator #	Base Flow to	CSO to
038	Daniels St. @ Fairmont St.	Nashua River @ Daniels St.			
	Pratt Rd. @ Madison St.		006	011	038
011	Clarendon St.@ Plymouth St.	Shares Outfall with 038			
	Clarendon St.@ St. Andrews St.		065	011	038
	377 Beech St.	Sand Brook @ Pratt Rd.	074	038	038
036	Laurel St. @ Putnum St.	Nashua River near Laurel St. Bridge			
	Pearl St. @ Milk St.		009	036	036
051	Water St. @ Centrino Memorial Bridge	Birch Brook			
076	Birch St. @ Heywood St.	Birch Brook @ Heywood St.			
	38 Birch Street		077	076	076
	Salem St. @ Birch St.		078	077	077
	50 Fairbanks St.		075	077	077
080	Ellis St. @ Kingsbury St.	Open ditch @ Kingsbury St. & Colburn St.			
017	Water Street @ Burnett St.	Birch Brook			
	55 Albee St. @ Burnett St.		018	017	017
	Hassett St. @ Burnett St.		081	017	017
016	509 Water St.	Nashua River near Birch Brook			
	Water St. near 016		016c	016b	017
	Water St. near 016		016a	016	016c
	Water St. near 016		016b	016	016
	Newton St. @ Water St.		15	016b	016a
064	Chamber behind 672 Water St.	Nashua River			
071	Leyte Rd. @ Normandy St.	Culverted brook ditch @ Water St. & Devlin Pass.			
079	Romano St. @ Belmont St.	Ditch @ Water St. & Canton St.			
041	Benson Rd. near Falulah St.	Abandoned Falulah Canel			
072	Pearl St. @ Townsend St.	Baker Brook @ Pearl St.			
	East St. @ Pearl St.		025	024	072
024	Boutelle St.@ Lunenburg St.	Baker Brook @ Lunenburg St.			
033	Summer St. grit chamber	Nashua River @ East Fitchburg Siphon		MTL	
023	Bemis Rd. Siphon	Shares Outfall with 033		033	
	Harrison Ave. off Boutelle St.		070	023	023
032	843 Main St. @ Post Office	Nashua River @ Circle St.			
030	Simmonds St. @ High St.	Nashua River near Rollstone St.			
045a	Main St. @ Putnum St. (a)	Punch Brook Culvert @ Boulder Dr. via Putnum St.			
045b	Main St. @ Putnum St. (b)	Punch Brook Culvert @ Boulder St. via Main St.			
053	41 Fox St.	Punch Brook Culvert @ Fox St.			
082	Oliver St. @ Police Staion	Punch Brook Culvert @ Oliver St.			
083	Main St. @ Prichard St.	Punch Brook Culvert @ Main St.			
004	Oakhill Rd. @ Cleghorn St.	Nashua River			
060	Kimball St. @ Cleghorn St.	Nashua River			
010	Main St. @ River St.	Nashua River			
031	Broad St. @ Rollstone St.	Nashua River			
007	Cushing St. Subway	Nashua River			
061	Cushing St. @ Boulder Dr.	Nashua River			
	Blossom St. @ Main St.		063	048	061
	Blossom St. @ Crescent St.		099	063	063
	Blossom St. @ Pearl St.		034	042	099
	Blossom St. 300' N of Ross St.		095	097	097
	Blossom St. 600' N of Ross St.		096	095	095
	Blossom St. @ Ross St.		097	098	098
	Blossom St. @ Ryefield Rd.		098	034	034
48	85 Water St. @ Crocker St.	Nashua River			
39	Water St. @ Walnut St.	Nashua River			
44	Nashua River near First & Railroad Sts.	Nashua River			
19	Nashua River				

ATTACHMENT B

FRESHWATER CHRONIC TOXICITY TEST PROCEDURE AND PROTOCOL

USEPA Region 1

I. GENERAL REQUIREMENTS

The permittee shall be responsible for the conduct of acceptable chronic (and modified acute) toxicity tests using three fresh samples collected during each test period. The following tests shall be performed as prescribed in Part 1 of the NPDES discharge permit in accordance with the appropriate test protocols described below. (Note: the permittee and testing laboratory should review the applicable permit to determine whether testing of one or both species is required).

- **Daphnid (Ceriodaphnia dubia) Survival and Reproduction Test.**
- **Fathead Minnow (Pimephales promelas) Larval Growth and Survival Test.**

Chronic and modified acute toxicity data shall be reported as outlined in Section VIII. The chronic fathead minnow and daphnid test data can be used to calculate an LC50 at the end of 48 hours of exposure when both acute (LC50) and chronic (C-NOEC) test endpoints are specified in the permit.

II. METHODS

Methods to follow are those recommended by EPA in: Short Term Methods For Estimating The Chronic Toxicity of Effluents and Receiving Water to Freshwater Organisms, Fourth Edition. October 2002. United States Environmental Protection Agency. Office of Water, Washington, D.C., EPA 821-R-02-013. The methods are available on-line at http://www.epa.gov/waterscience/WET/ . Exceptions and clarification are stated herein.

III. SAMPLE COLLECTION AND USE

A total of three fresh samples of effluent and receiving water are required for initiation and subsequent renewals of a freshwater, chronic, toxicity test. The receiving water control sample must be collected immediately upstream of the permitted discharge's zone of influence. Fresh samples are recommended for use on test days 1, 3, and 5. However, provided a total of three samples are used for testing over the test period, an alternate sampling schedule is acceptable. The acceptable holding times until initial use of a sample are 24 and 36 hours for on-site and off-site testing, respectively. A written waiver is required from the regulating authority for any hold time extension. All test samples collected may be used for 24, 48 and 72 hour renewals after initial use. All samples held for use beyond the day of sampling shall be refrigerated and maintained at a temperature range of 0-6° C.

All samples submitted for chemical and physical analyses will be analyzed according to Section VI of this protocol.

Sampling guidance dictates that, where appropriate, aliquots for the analysis required in this protocol shall be split from the samples, containerized and immediately preserved, or analyzed as per 40 CFR Part 136. EPA approved test methods require that samples collected for metals analyses be preserved immediately after collection. Testing for the presence of total residual chlorine (TRC) must be analyzed immediately or as soon as possible, for all effluent samples, prior to WET testing. TRC analysis may be performed on-site or by the toxicity testing laboratory and the samples must be dechlorinated, as necessary, using sodium thiosulfate prior to sample use for toxicity testing.

If any of the renewal samples are of sufficient potency to cause lethality to 50 percent or more of the test organisms in any of the test treatments for either species or, if the test fails to meet its permit limits, then chemical analysis for total metals (originally required for the initial sample only in Section VI) will be required on the renewal sample(s) as well.

IV. DILUTION WATER

Samples of receiving water must be collected from a location in the receiving water body immediately upstream of the permitted discharge's zone of influence at a reasonably accessible location. Avoid collection near areas of obvious road or agricultural runoff, storm sewers or other point source discharges and areas where stagnant conditions exist. EPA strongly urges that screening for toxicity be performed prior to the set up of a full, definitive toxicity test any time there is a question about the test dilution water's ability to achieve test acceptability criteria (TAC) as indicated in Section V of this protocol. The test dilution water control response will be used in the statistical analysis of the toxicity test data. All other control(s) required to be run in the test will be reported as specified in the Discharge Monitoring Report (DMR) Instructions, Attachment F, page 2,Test Results & Permit Limits.

The test dilution water must be used to determine whether the test met the applicable TAC. When receiving water is used for test dilution, an additional control made up of standard laboratory water (0% effluent) is required. This control will be used to verify the health of the test organisms and evaluate to what extent, if any, the receiving water itself is responsible for any toxic response observed.

If dechlorination of a sample by the toxicity testing laboratory is necessary a "sodium thiosulfate" control, representing the concentration of sodium thiosulfate used to adequately dechlorinate the sample prior to toxicity testing, must be included in the test.

If the use of an alternate dilution water (ADW) is authorized, in addition to the ADW test control, the testing laboratory must, for the purpose of monitoring the receiving water, also run a receiving water control.

If the receiving water diluent is found to be, or suspected to be toxic or unreliable an ADW of known quality with hardness similar to that of the receiving water may be substituted. Substitution is species specific meaning that the decision to use ADW is made for each species and is based on the toxic response of that particular species. Substitution to an ADW is authorized in two cases. The first is the case where repeating a test due to toxicity in the site dilution water requires an **immediate decision** for ADW use be made by the permittee and

toxicity testing laboratory. The second is in the case where two of the most recent documented incidents of unacceptable site dilution water toxicity requires ADW use in future WET testing.

For the second case, written notification from the permittee requesting ADW use **and** written authorization from the permit issuing agency(s) is required **prior to** switching to a long-term use of ADW for the duration of the permit.

Written requests for use of ADW must be mailed with supporting documentation to the following addresses:

Director
Office of Ecosystem Protection (CAA)
U.S. Environmental Protection Agency-New England
One Congress St., Suite 1100
Boston, MA 02114-2023

and

Manager
Water Technical Unit (SEW)
U.S. Environmental Protection Agency
One Congress Street, Suite 1100
Boston, MA 02114-2023

Note: USEPA Region 1 retains the right to modify any part of the alternate dilution water policy stated in this protocol at any time. Any changes to this policy will be documented in the annual DMR posting.

See the most current annual DMR instructions which can be found on the EPA Region 1 website at http://www.epa.gov/region1/enforcementandassistance/dmr.html for further important details on alternate dilution water substitution requests.

V. TEST CONDITIONS AND TEST ACCEPTABILITY CRITERIA

Method specific test conditions and TAC are to be followed and adhered to as specified in the method guidance document, EPA 821-R-02-013. If a test does not meet TAC the test must be repeated with fresh samples within 30 days of the initial test completion date.

V.1. Use of Reference Toxicity Testing

Reference toxicity test results and applicable control charts must be included in the toxicity testing report.

If reference toxicity test results fall outside the control limits established by the laboratory for a specific test endpoint, a reason or reasons for this excursion must be evaluated, correction made and reference toxicity tests rerun as necessary.

If a test endpoint value exceeds the control limits at a frequency of more than one out of twenty then causes for the reference toxicity test failure must be examined and if problems are identified corrective action taken. The reference toxicity test must be repeated during the same month in which the exceedance occurred.

If two consecutive reference toxicity tests fall outside control limits, the possible cause(s) for the exceedance must be examined, corrective actions taken and a repeat of the reference toxicity test must take place immediately. Actions taken to resolve the problem must be reported.

V.1.a. Use of Concurrent Reference Toxicity Testing

In the case where concurrent reference toxicity testing is required due to a low frequency of testing with a particular method, if the reference toxicity test results fall slightly outside of laboratory established control limits, but the primary test met the TAC, the results of the primary test will be considered acceptable. However, if the results of the concurrent test fall well outside the established **upper** control limits i.e. ≥3 standard deviations for IC25s and LC50 values and ≥ two concentration intervals for NOECs or NOAECs, and even though the primary test meets TAC, the primary test will be considered unacceptable and must be repeated.

V.2. For the *C. dubia* test, the determination of TAC and formal statistical analyses must be performed using only the first three broods produced.

V.3. Test treatments must include 5 effluent concentrations and a dilution water control. An additional test treatment, at the permitted effluent concentration (% effluent), is required if it is not included in the dilution series.

VI. CHEMICAL ANALYSIS

As part of each toxicity test's daily renewal procedure, pH, specific conductance, dissolved oxygen (DO) and temperature must be measured at the beginning and end of each 24-hour period in each test treatment and the control(s).

The additional analysis that must be performed under this protocol is as specified and noted in the table below.

Parameter	Effluent	Receiving Water	ML (mg/l)
Hardness[1, 4]	x	x	0.5
Total Residual Chlorine (TRC)[2, 3, 4]	x		0.02
Alkalinity[4]	x	x	2.0
pH[4]	x	x	--
Specific Conductance[4]	x	x	--
Total Solids[6]	x		--
Total Dissolved Solids[6]	x		--
Ammonia[4]	x	x	0.1
Total Organic Carbon[6]	x	x	0.5
Total Metals[5]			
Cd	x	x	0.0005
Pb	x	x	0.0005
Cu	x	x	0.003
Zn	x	x	0.005
Ni	x	x	0.005
Al	x	x	0.02
Other as permit requires			

Notes:

1. Hardness may be determined by:
   - APHA Standard Methods for the Examination of Water and Wastewater , 21st Edition
     -Method 2340B (hardness by calculation)
     -Method 2340C (titration)
2. Total Residual Chlorine may be performed using any of the following methods provided the required minimum limit (ML) is met.
   - APHA Standard Methods for the Examination of Water and Wastewater , 21st Edition
     -Method 4500-CL E Low Level Amperometric Titration
     -Method 4500-CL G DPD Colorimetric Method
   - USEPA 1983. Manual of Methods Analysis of Water and Wastes
     -Method 330.5
3. Required to be performed on the sample used for WET testing prior to its use for toxicity testing
4. Analysis is to be performed on samples and/or receiving water, as designated in the table above, from all three sampling events.
5. Analysis is to be performed on the initial sample(s) only unless the situation arises as stated in Section III, paragraph 4
6. Analysis to be performed on initial samples only

VII. TOXICITY TEST DATA ANALYSIS AND REVIEW

A. Test Review

1. Concentration / Response Relationship

A concentration/response relationship evaluation is required for test endpoint determinations from both Hypothesis Testing and Point Estimate techniques. The test report is to include documentation of this evaluation in support of the endpoint values reported. The dose-response review must be performed as required in Section 10.2.6 of EPA-821-R-02-013. Guidance for this review can be found at http://www.epa.gov/waterscience/WET/guide/index.html . In most cases, the review will result in one of the following three conclusions: (1) Results are reliable and reportable; (2) Results are anomalous and require explanation; or (3) Results are inconclusive and a retest with fresh samples is required.

2. Test Variability (Test Sensitivity)

This review step is separate from the determination of whether a test meets or does not meet TAC. Within test variability is to be examined for the purpose of evaluating test sensitivity. This evaluation is to be performed for the sub-lethal hypothesis testing endpoints reproduction and growth as required by the permit. The test report is to include documentation of this evaluation to support that the endpoint values reported resulted from a toxicity test of adequate sensitivity. This evaluation must be performed as required in Section 10.2.8 of EPA-821-R-02-013.

To determine the adequacy of test sensitivity, USEPA requires the calculation of test percent minimum significant difference (PMSD) values. In cases where NOEC determinations are made based on a non-parametric technique, calculation of a test PMSD value, for the sole purpose of assessing test sensitivity, shall be calculated using a comparable parametric statistical analysis technique. The calculated test PMSD is then compared to the upper and lower PMSD bounds shown for freshwater tests in Section 10.2.8.3, p. 52, Table 6 of EPA-821-R-02-013. The comparison will yield one of the following determinations.

- The test PMSD exceeds the PMSD upper bound test variability criterion in Table 6, the test results are considered highly variable and the test may not be sensitive enough to determine the presence of toxicity at the permit limit concentration (PLC). If the test results indicate that the discharge is not toxic at the PLC, then the test is considered insufficiently sensitive and must be repeated within 30 days of the initial test completion using fresh samples. If the test results indicate that the discharge is toxic at the PLC, the test is considered acceptable and does not have to be repeated.

- The test PMSD falls below the PMSD lower bound test variability criterion in Table 6, the test is determined to be very sensitive. In order to determine which treatment(s) are statistically significant and which are not, for the purpose of reporting a NOEC, the relative percent difference (RPD) between the control and each treatment must be calculated and compared to the lower PMSD boundary. See *Understanding and Accounting for Method Variability in Whole Effluent Toxicity Applications Under the NPDES Program*, EPA 833-R-00-003, June 2002, Section 6.4.2. The following link: Understanding and Accounting for Method Variability in Whole Effluent Toxicity Applications Under the NPDES Program can be used to locate the USEPA website containing this document. If the RPD for a treatment falls below the PMSD lower bound, the difference is considered statistically insignificant. If the RPD for a treatment is greater that the PMSD lower bound, then the treatment is considered statistically significant.

- The test PMSD falls within the PMSD upper and lower bounds in Table 6, the sub-lethal test endpoint values shall be reported as is.

B. Statistical Analysis

1. General - Recommended Statistical Analysis Method

Refer to general data analysis flowchart, EPA 821-R-02-013, page 43

For discussion on Hypothesis Testing, refer to EPA 821-R-02-013, Section 9.6

For discussion on Point Estimation Techniques, refer to EPA 821-R-02-013, Section 9.7

2. *Pimephales promelas*

Refer to survival hypothesis testing analysis flowchart, EPA 821-R-02-013, page 79

Refer to survival point estimate techniques flowchart, EPA 821-R-02-013, page 80

Refer to growth data statistical analysis flowchart, EPA 821-R-02-013, page 92

3. *Ceriodaphnia dubia*

Refer to survival data testing flowchart, EPA 821-R-02-013, page 168

Refer to reproduction data testing flowchart, EPA 821-R-02-013, page 173

VIII. TOXICITY TEST REPORTING

A report of results must include the following:

- Test summary sheets (2007 DMR Attachment F) which includes:
  - Facility name
  - NPDES permit number
  - Outfall number
  - Sample type
  - Sampling method
  - Effluent TRC concentration
  - Dilution water used
  - Receiving water name and sampling location
  - Test type and species
  - Test start date
  - Effluent concentrations tested (%) and permit limit concentration
  - Applicable reference toxicity test date and whether acceptable or not
  - Age, age range and source of test organisms used for testing
  - Results of TAC review for all applicable controls
  - Test sensitivity evaluation results (test PMSD for growth and reproduction)
  - Permit limit and toxicity test results
  - Summary of test sensitivity and concentration response evaluation

In addition to the summary sheets the report must include:

- A brief description of sample collection procedures
- Chain of custody documentation including names of individuals collecting samples, times and dates of sample collection, sample locations, requested analysis and lab receipt with time and date received, lab receipt personnel and condition of samples upon receipt at the lab(s)
- Reference toxicity test control charts
- All sample chemical/physical data generated, including minimum limits (MLs) and analytical methods used
- All toxicity test raw data including daily ambient test conditions, toxicity test chemistry, sample dechlorination details as necessary, bench sheets and statistical analysis
- A discussion of any deviations from test conditions
- Any further discussion of reported test results, statistical analysis and concentration-response relationship and test sensitivity review per species per endpoint

Attachment C.

EPA - New England

Reassessment of Technically Based Industrial Discharge Limits

Under 40 CFR §122.21(j)(4), all Publicly Owned Treatment Works (POTWs) with approved Industrial Pretreatment Programs (IPPs) shall provide the following information to the Director: a written evaluation of the need to revise local industrial discharge limits under 40 CFR §403.5(c)(1).

Below is a form designed by the U.S. Environmental Protection Agency (EPA - New England) to assist POTWs with approved IPPs in evaluating whether their existing Technically Based Local Limits (TBLLs) need to be recalculated. The form allows the permittee and EPA to evaluate and compare pertinent information used in previous TBLLs calculations against present conditions at the POTW.

Please read direction below before filling out form.

ITEM I.

* In Column (1), list what your POTW's influent flow rate was when your existing TBLLs were calculated. In Column (2), list your POTW's present influent flow rate. Your current flow rate should be calculated using the POTW's average daily flow rate from the previous 12 months.

* In Column (1) list what your POTW's SIU flow rate was when your existing TBLLs were calculated. In Column (2), list your POTW's present SIU flow rate.

* In Column (1), list what dilution ratio and/or 7Q10 value was used in your old/expired NPDES permit. In Column (2), list what dilution ration and/or 7Q10 value is presently being used in your new/reissued NPDES permit.

  The 7Q10 value is the lowest seven day average flow rate, in the river, over a ten year period. The 7Q10 value and/or dilution ratio used by EPA in your new NPDES permit can be found in your NPDES permit "Fact Sheet."

* In Column (1), list the safety factor, if any, that was used

when your existing TBLLs were calculated.

* In Column (1), note how your bio-solids were managed when your existing TBLLs were calculated. In Column (2), note how your POTW is presently disposing of its biosolids and how your POTW will be disposing of its biosolids in the future.

ITEM II.

* List what your existing TBLLs are - as they appear in your current Sewer Use Ordinance (SUO).

ITEM III.

* Identify how your existing TBLLs are allocated out to your industrial community. Some pollutants may be allocated differently than others, if so please explain.

ITEM IV.

* Since your existing TBLLs were calculated, identify the following in detail:

  (1) if your POTW has experienced any upsets, inhibition, interference or pass-through as a result of an industrial discharge.

  (2) if your POTW is presently violating any of its current NPDES permit limitations - include toxicity.

ITEM V.

* Using current sampling data, list in Column (1) the average and maximum amount of pollutants (in pounds per day) received in the POTW's influent. Current sampling data is defined as data obtained over the last 24 month period.

  All influent data collected and analyzed must be in accordance with 40 CFR §136. Sampling data collected should be analyzed using the lowest possible detection method(s), e.g. graphite furnace.

* Based on your existing TBLLs, as presented in Item II., list in Column (2), for each pollutant the Maximum Allowable Headwork Loading (MAHL) values derived from an applicable

environmental criteria or standard, e.g. water quality, sludge, NPDES, inhibition, etc. For more information, please see p.,3-28 in EPA's *Guidance Manual on the Development and Implementation of Local Limits Under the Pretreatment Program*, 12/87.

Item VI.

* Using current sampling data, list in Column (1) the average and maximum amount of pollutants (in micrograms per liter) present your POTW's effluent. Current sampling data is defined as data obtained during the last 24 month period.

All effluent data collected and analyzed must be in accordance with 40 CFR §136. Sampling data collected should be analyzed using the lowest possible detection method(s), e.g. graphite furnace.

* List in Column (2A) what the Water Quality Standards (WQS) were (in micrograms per liter) when your TBLLs were calculated, please note what hardness value was used at that time. Hardness should be expressed in milligram per liter of Calcium Carbonate.

List in Column (2B) the current WQSs or "Chronic Gold Book" values for each pollutant multiplied by the dilution ratio used in your new/reissued NPDES permit. For example, with a dilution ratio of 25:1 at a hardness of 25 mg/l - Calcium Carbonate (copper's chronic WQS equals 6.54 ug/l) the chronic NPDES permit limit for copper would equal 156.25 ug/l.

ITEM VII.

* In Column (1), list all pollutants (in micrograms per liter) limited in your new/reissued NPDES permit. In Column (2), list all pollutants limited in your old/expired NPDES permit.

ITEM VIII.

* Using current sampling data, list in Column (1) the average and maximum amount of pollutants in your POTW's biosolids. Current data is defined as data obtained during the last 24 month period. Results are to be expressed as total dry weight.

All biosolids data collected and analyzed must be in accordance with 40 CFR §136.

In Column (2A), list current State and/or Federal sludge standards that your facility's biosolids must comply with. Also note how your POTW currently manages the disposal of its biosolids. If your POTW is planing on managing its biosolids differently, list in Column (2B) what your new biosolids criteria will be and method of disposal.

In general, please be sure the units reported are correct and all pertinent information is included in your evaluation. If you have any questions, please contact your pretreatment representative at EPA - New England.

REASSESSMENT OF TECHNICALLY BASED LOCAL LIMITS (TBLLs)

POTW Name & Address : _____

NPDES PERMIT # : _____

Date EPA approved current TBLLs : _____

Date EPA approved current Sewer Use Ordinance : _____

ITEM I.

In Column (1) list the conditions that existed when your current TBLLs were calculated. In Column (2), list current conditions or expected conditions at your POTW.		
	Column (1) EXISTING TBLLs	Column (2) PRESENT CONDITIONS
POTW Flow (MGD)		
Dilution Ratio or 7Q10 (from NPDES Permit)		
SIU Flow (MGD)		
Safety Factor		N/A
Biosolids Disposal Method(s)		

ITEM II.

EXISTING TBLLs			
POLLUTANT	NUMERICAL LIMIT (mg/l) or (lb/day)	POLLUTANT	NUMERICAL LIMIT (mg/l) or (lb/day)

ITEM III.

Note how your existing TBLLs, listed in Item II., are allocated to your Significant Industrial Users (SIUs), i.e. uniform concentration, contributory flow, mass proportioning, other. Please specify by circling.

ITEM IV.

Has your POTW experienced any upsets, inhibition, interference or pass-through from industrial sources since your existing TBLLs were calculated?

If yes, explain.

_____

_____

Has your POTW violated any of its NPDES permit limits and/or toxicity test requirements?

If yes, explain. _____

_____

ITEM V.

Using current POTW influent sampling data fill in Column (1). In Column (2), list your Maximum Allowable Headwork Loading (MAHL) values used to derive your TBLLs listed in Item II. In addition, please note the Environmental Criteria for which each MAHL value was established, i.e. water quality, sludge, NPDES etc.

Pollutant	Column (1) Influent Data Analyses Maximum (lb/day)	Average (lb/day)	Column (2) MAHL Values (lb/day)	Criteria
Arsenic				
Cadmium				
Chromium				
Copper				
Cyanide				
Lead				
Mercury				
Nickel				
Silver				
Zinc				
Other (List)				

ITEM VI.

Using current POTW effluent sampling data, fill in Column (1). In Column (2A) list what the Water Quality Standards (Gold Book Criteria) were at the time your existing TBLLs were developed. List in Column (2B) current Gold Book values multiplied by the dilution ratio used in your new/reissued NPDES permit.

Pollutant	Column (1) Effluent Data Analyses		Columns (2A) (2B) Water Quality Criteria (Gold Book)	
	Maximum (ug/l)	Average (ug/l)	From TBLLs (ug/l)	Today (ug/l)
Arsenic				
*Cadmium				
*Chromium				
*Copper				
Cyanide				
*Lead				
Mercury				
*Nickel				
Silver				
*Zinc				
Other (List)				

*Hardness Dependent (mg/l - CaCO3)

ITEM VII.

In Column (1), identify all pollutants limited in your new/reissued NPDES permit. In Column (2), identify all pollutants that were limited in your old/expired NPDES permit.

Column (1) NEW PERMIT		Column (2) OLD PERMIT	
Pollutants	Limitations (ug/l)	Pollutants	Limitations (ug/l)

ITEM VIII.

Using current POTW biosolids data, fill in Column (1). In Column (2A), list the biosolids criteria that was used at the time your existing TBLLs were calculated. If your POTW is planing on managing its biosolids differently, list in Column (2B) what your new biosolids criteria would be and method of disposal.

Pollutant	Column (1) Biosolids Data Analyses Average (mg/kg)	Columns (2A) Biosolids Criteria From TBLLs (mg/kg)	(2B) New (mg/kg)
Arsenic			
Cadmium			
Chromium			
Copper			
Cyanide			
Lead			
Mercury			
Nickel			
Silver			
Zinc			
Molybdenum			
Selenium			
Other (List)			

ATTACHMENT D

NPDES PERMIT REQUIREMENT
FOR
INDUSTRIAL PRETREATMENT ANNUAL REPORT

The information described below shall be included in the pretreatment program annual reports:

1. An updated list of all industrial users by category, as set forth in 40 C.F.R. 403.8(f)(2)(i), indicating compliance or noncompliance with the following:
   - baseline monitoring reporting requirements for newly promulgated industries
   - compliance status reporting requirements for newly promulgated industries
   - periodic (semi-annual) monitoring reporting requirements,
   - categorical standards, and
   - local limits;

2. A summary of compliance and enforcement activities during the preceding year, including the number of:
   - significant industrial users inspected by POTW (include inspection dates for each industrial user),
   - significant industrial users sampled by POTW (include sampling dates for each industrial user),
   - compliance schedules issued (include list of subject users),
   - written notices of violations issued (include list of subject users),
   - administrative orders issued (include list of subject users),
   - criminal or civil suits filed (include list of subject users) and,
   - penalties obtained (include list of subject users and penalty amounts);

3. A list of significantly violating industries required to be published in a local newspaper in accordance with 40 C.F.R. 403.8(f)(2)(vii);

4. A narrative description of program effectiveness including present and proposed changes to the program, such as funding, staffing, ordinances, regulations, rules and/or statutory authority;

5. A summary of all pollutant analytical results for influent, effluent, sludge and any toxicity or bioassay data from the wastewater treatment facility. The summary shall include a comparison of influent sampling results versus threshold inhibitory concentrations for the Wastewater Treatment System and effluent sampling results versus water quality standards. Such a comparison shall be based on the sampling program described in the paragraph below or any similar sampling program described in this Permit.

   At a minimum, annual sampling and analysis of the influent and effluent of the Wastewater Treatment Plant shall be conducted for the following pollutants:

   a.) Total Cadmium
   b.) Total Chromium
   c.) Total Copper
   d.) Total Lead
   e.) Total Mercury
   f.) Total Nickel
   g.) Total Silver
   h.) Total Zinc
   i.) Total Cyanide
   j.) Total Arsenic

   The sampling program shall consist of one 24-hour flow-proportioned composite and at least one grab sample that is representative of the flows received by the POTW. The composite shall consist of hourly flow-proportioned grab samples taken over a 24-hour period if the sample is collected manually or shall consist of a minimum of 48 samples collected at 30 minute intervals if an automated sampler is used. Cyanide shall be taken as a grab sample during the same period as the composite sample. Sampling and preservation shall be consistent with 40 CFR Part 136.

6. A detailed description of all interference and pass-through that occurred during the past year;

7. A thorough description of all investigations into interference and pass-through during the past year;

8. A description of monitoring, sewer inspections and evaluations which were done during the past year to detect interference and pass-through, specifying parameters and frequencies;

9. A description of actions being taken to reduce the incidence of significant violations by significant industrial users; and,

10. The date of the latest adoption of local limits and an indication as to whether or not the Town is under a State or Federal compliance schedule that includes steps to be taken to revise local limits.

APPENDIX B

Consent Decree

UNITED STATES DISTRICT COURT
DISTRICT OF MASSACHUSETTS

UNITED STATES OF AMERICA,	)	
Plaintiff,	)	
COMMONWEALTH OF MASSACHUSETTS,	)	CIVIL ACTION NO.
Plaintiff-Intervenor,	)	
v.	)	
CITY OF FITCHBURG, MASSACHUSETTS,	)	
Defendant.	)	

CONSENT DECREE

WHEREAS, the City of Fitchburg, Massachusetts (the "City" or "Fitchburg") discharges pollutants into navigable waters of the United States from a publicly owned treatment works ("POTW") treatment plant that it owns and operates on Lanides Lane in Fitchburg, Massachusetts pursuant to National Pollutant Discharge Elimination System ("NPDES") Permit No. MA0100986, which was reissued on September 1, 2010 (the "Permit");

WHEREAS, Fitchburg also discharges pollutants into navigable waters of the United States from combined sewer overflow ("CSO") discharge points;

WHEREAS, the plaintiff, the United States of America, on behalf of the United States Environmental Protection Agency ("EPA"), has filed a complaint simultaneously with this Consent Decree alleging that the City has violated the Permit and Section 301(a) of the Clean Water Act ("Act" or "CWA"), 33 U.S.C. § 1311(a);

WHEREAS, the Commonwealth of Massachusetts (the "Commonwealth"), on behalf of

the Massachusetts Department of Environmental Protection ("MassDEP"), has filed an assented-to motion to intervene as a plaintiff in the action brought by the United States and has filed a complaint that alleges that the City was, and is, in ongoing violation of Section 301 of the CWA, 33 U.S.C. § 1311, the Massachusetts Clean Waters Act, M.G.L. c. 21 § 26, *et seq*. ("Massachusetts Act"), and provisions of the Permit and State Permit No. MA0100986 issued by the MassDEP under the Massachusetts Act (said Federal and State permits having been jointly issued as a single permit);

WHEREAS, the City has implemented a number of projects and measures designed to reduce the frequency, volume and duration of discharges from its Combined Sewer System and bypasses of secondary treatment at the POTW Treatment Plant, but acknowledges that additional projects and measures must be implemented in order to achieve full compliance with the Permit;

WHEREAS, entry of this Consent Decree by the Court will resolve all claims in the complaint of the United States and the complaint of the Commonwealth, referred to herein collectively as the "Complaints";

WHEREAS, the United States, the Commonwealth, and the City (collectively, the "Parties"), agree, without admission of facts or law except as expressly stated herein, that settlement of this matter is in the public interest and that entry of this Consent Decree without further litigation is an appropriate resolution of the dispute, and the Parties consent to the entry of this Consent Decree; and

WHEREAS, settlement and entry of this Consent Decree does not constitute an admission of liability by the City.

NOW, THEREFORE, it is hereby ordered, adjudged, and decreed as follows:

I. STATEMENT OF CLAIM

1. The Complaints state claims upon which relief can be granted against the City pursuant to Section 309 of the CWA, 33 U.S.C. § 1319, and pursuant to Sections 43 and 46 of the Massachusetts Act, M.G.L. c. 21, §§ 43 and 46.

II. JURISDICTION AND VENUE

2. This Court has jurisdiction over the subject matter of this action pursuant to Section 309(b) of the CWA, 33 U.S.C. §1319(b), and 28 U.S.C. §§ 1331, 1345, and 1355, and under the doctrine of pendent jurisdiction. This Court has personal jurisdiction over the Parties to this Consent Decree. Venue properly lies in this district pursuant to Section 309(b) of the CWA, 33 U.S.C. § 1319(b), 28 U.S.C. §§ 1391(b) and (c), and 28 U.S.C. § 1395. The City waives all objections it might have raised to such jurisdiction or venue.

III. APPLICABILITY

3. The provisions of this Consent Decree shall apply to and be binding upon the City and its officers, directors, agents, employees acting in their official capacities, its successors, and assigns.

4. No transfer of any ownership interest in or any interest in the operation of the City's Sewer System, whether in compliance with this Paragraph or otherwise, shall relieve the City of its obligation to ensure that the terms of this Consent Decree are implemented. Any transfer involving ownership or operation of the Sewer System, or any portion thereof, to any other person or entity must be conditioned upon the transferee's agreement to be added as a party to the Consent Decree and to be jointly and severally liable with the Defendants to undertake the obligations required by all provisions of the Consent Decree. At least thirty (30) Days prior to

such transfer, the City shall provide a copy of this Consent Decree to the proposed transferee and shall simultaneously provide written notice of the prospective transfer, together with a copy of the above-referenced proposed written agreement, to EPA, the United States Attorney, the United States Department of Justice, MassDEP, and the Commonwealth in accordance with Section XV (Form of Notice). Any noncompliance with this Paragraph constitutes a violation of this Consent Decree.

5. The City shall provide a copy of this Consent Decree to all officers and agents whose duties might reasonably include compliance with any provisions of this Consent Decree. The City shall also provide a copy of this Consent Decree to all contractors and consultants retained to perform any obligation required by this Consent Decree on behalf of the City, and condition any such contract upon performance of the work in conformity with the terms of this Consent Decree. The City shall require that such contractors and consultants provide a copy of this Consent Decree to their subcontractors to the extent the subcontractors are performing work subject to this Consent Decree. Such contractors, consultants and subcontractors shall be deemed agents of the City for the purposes of this Consent Decree. In an action to enforce this Consent Decree, the City shall not assert as a defense against an action by EPA or the Commonwealth the failure by any of its officers, directors, employees, agents, servants, consultants, engineering firms, contractors, successors, and assigns to take actions necessary to comply with this Consent Decree.

IV. DEFINITIONS

6. Unless otherwise expressly provided herein, terms used in this Consent Decree which are defined in the CWA, regulations promulgated under the CWA, EPA's 1994 CSO Control Policy,

or in the MassDEP guidance document referenced in Paragraph 8.c, shall have the meaning ascribed to them in the CWA, the regulations promulgated thereunder, the CSO Control Policy, or the above referenced MassDEP guidance document. Whenever the terms listed below are used in this Consent Decree, the following definitions shall apply:

a. "Act" or "CWA" shall mean the Federal Water Pollution Control Act (commonly referred to as the Clean Water Act), as amended, 33 U.S.C. §§ 1251-1387.

b. "Approval by the EPA and the MassDEP," and "approved by the EPA and the MassDEP" shall mean the City's receipt of written approval from the EPA and/or MassDEP as required by this Consent Decree.

c. "Building/Private Property Backup" shall mean any release of wastewater into buildings or onto private property, except a release that is the result of blockages, flow conditions, or malfunctions of a building lateral or other piping/conveyance system that is not owned or operationally controlled by the City, or is the result of overland, surface flooding not emanating from the City's Sewer System.

d. "Combination Manholes" shall mean those manhole structures wherein are located a sanitary sewer and storm water sewer separated by a vertical masonry wall.

e. "Combined Sewer Overflow" or "CSO" shall mean any wet-weather overflow from a combined sewer in excess of the interceptor or regulator capacity that is discharged into a receiving water without going to the POTW Treatment Plant.

f. "Combined Sewer System" shall mean the pipelines in the City that are designed to convey wastewater and stormwater through a single pipe system to combined sewer overflow outfalls and/or the POTW Treatment Plant.

g. “Commonwealth” shall mean the Commonwealth of Massachusetts.

h. “Complaints” shall mean, collectively, the complaint filed by the United States and the complaint filed by the Commonwealth in this action.

i. “Consent Decree” shall mean this Consent Decree and all attachments hereto. In the event of conflict between this Consent Decree and any attachment, this Consent Decree shall control.

j. “Date of Entry” shall mean the date this Consent Decree is approved and signed by a United States District Court Judge for the District of Massachusetts.

k. “Date of Lodging” shall mean the Day this Consent Decree is filed for lodging with the Clerk of the Court for the United States District Court for the District of Massachusetts.

l. “Day” shall mean a calendar day. In computing any period of time under this Consent Decree, where the last Day would fall on a Saturday, Sunday, or Federal or Commonwealth holiday, the period shall run until the close of business of the next working Day.

m. “EPA” shall mean the United States Environmental Protection Agency and any successor departments or agencies of the United States.

n. “EPA’s 1994 CSO Control Policy” shall mean EPA’s April 19, 1994 CSO Control Policy, published at 59 Fed. Reg.18,688.

o. “Excessive Infiltration/Inflow” or “Excessive I/I” shall mean the Infiltration/Inflow (“I/I”) and Rainfall-Induced Infiltration that can be cost-effectively eliminated from the City’s Sewer System as determined by a cost effectiveness analysis that

compares the costs of eliminating the I/I with the total costs of transportation and treatment of the I/I (including capital costs of increasing sewage facilities capacity and treatment and the resulting operating costs).

p. “Infiltration” shall mean the water that enters the City=s Sewer System (including sewer service connections) from the ground through such means as defective pipes, pipe joints, connections or manholes. Infiltration does not include, and is distinguished from, Inflow.

q. “Infiltration/Inflow” shall mean, the total quantity of water present from both Infiltration and Inflow without distinguishing the source.

r. “Inflow” shall mean all water that enters the City’s Sewer System (including sewer service connections) from sources such as roof leaders, cellar drains, yard drains, area drains, foundation drains, drains from springs and swampy areas, manhole covers, cross connections between storm sewers and sanitary sewers, catch basins, storm waters, surface runoff, street wash waters, sump pump discharges or drainage. Inflow does not include, and is distinguished from, Infiltration.

s. “MassDEP” shall mean the Massachusetts Department of Environmental Protection and any successor departments or agencies of the Commonwealth.

t. “Minisystem” shall mean a subsystem of the Sewer System in which a key manhole located at the outlet of the subsystem can be used to measure the Infiltration/Inflow that occurs within the subsystem.

u. “Paragraph” shall mean a portion of this Consent Decree identified by an Arabic numeral or an upper or lower case letter.

v. “Parties” shall mean the United States, the Commonwealth of Massachusetts, and

the City of Fitchburg.

w. "Permit" shall mean National Pollutant Discharge Elimination System ("NPDES") Permit No. MA0100986 as reissued to the City on September 1, 2010.

x. "POTW Treatment Plant" shall mean the publicly owned treatment works wastewater treatment plant that the City of Fitchburg owns and operates on Lanides Lane in Fitchburg, Massachusetts.

y. "Rainfall-Induced Infiltration" shall mean Infiltration that enters the City's Sewer System and impacts the Sewer System flow rates similar to Inflow. Like Inflow, Rainfall-Induced Infiltration occurs as a result of rainfall. Rainfall-Induced Infiltration is the result of rainfall percolating through the soils into defects in sewer systems which generally lie near the surface.

z. "Sanitary Sewer Overflow" or "SSO" shall mean any overflow, spill, diversion, or release of wastewater from, or caused by, the City's Sewer System. This term shall include discharges to waters of the United States or the Commonwealth from the City's Sewer System, as well as any release of wastewater from the City's Sewer System to public or private property that does not reach waters of the United States or the Commonwealth, including Building/Private Property Backups.

aa. "Section" shall mean a portion of this Consent Decree identified by a Roman numeral.

bb. "Separate Storm Water Sewer System" shall mean the pipelines, conduits, pumping stations, force mains, and all other structures, devices, appurtenances, and facilities used for collecting and managing storm water that does not enter the Sewer System.

cc. "Sewer System" shall mean the pipelines, conduits, pumping stations, force mains, and all other structures, devices, appurtenances, and facilities used for collecting and conveying sanitary wastewaters (domestic, commercial and industrial wastewaters) and/or storm water through a single pipe system to CSO outfalls and/or the POTW Treatment Plant, but shall not include the Separate Storm Water Sewer System.

V. OBJECTIVES

7. It is the express intent of the Parties in executing this Consent Decree to require the City to perform all measures necessary to achieve and maintain compliance with the CWA, the Massachusetts Act, the Permit, and any applicable State and Federal regulations; to meet the objectives of the EPA's April 19, 1994 CSO Control Policy, 59 Fed. Reg. 18688 ("CSO Policy"); and to eliminate i) all SSOs from the Sewer System, ii) all prohibited bypasses at the POTW Treatment Plant, iii) all unauthorized discharges, and iv) all other violations of the Permit, the CWA and the Massachusetts Act.

8. Engineering designs and analyses required to be developed and performed pursuant to this Consent Decree shall be conducted using sound engineering practices, and, as applicable, consistent with:

a. EPA's Handbook: Sewer System Infrastructure Analysis and Rehabilitation, EPA/625/6-91/030, Oct. 1991;

b. EPA's Handbook for Sewer System Evaluation and Rehabilitation, EPA 430/9-75-021, Dec. 1975;

c. The MassDEP document entitled "Guidelines for Performing Infiltration/Inflow Analysis and Sewer System Evaluation Survey" revised January 1993; and

d. The currently effective edition of "TR 16: Guides for the Design of Wastewater Treatment Works."

VI. PENALTY FOR PAST VIOLATIONS

9. The City shall pay a civil penalty in the amount of one hundred forty-one thousand dollars ($141,000) ("Civil Penalty"), together with interest accruing from the Date of Entry, at the rate specified in 28 U.S.C. § 1961, one half to the United States and one half to the Commonwealth in satisfaction of the claims for civil penalties alleged in the Complaints through the Date of Lodging of the Consent Decree. Payment of the civil penalty shall be made within 30 Days after the Date of Entry of the Consent Decree.

10. The City shall make payment of seventy thousand five hundred dollars ($70,500) by FedWire Electronic Funds Transfer ("EFT") to the United States Department of Justice in accordance with written instructions to be provided to the City, following lodging of the Consent Decree by the United States Attorney's Office for the District of Massachusetts, Financial Litigation Unit, Boston, Massachusetts. The costs of such electronic funds transfer shall be the responsibility of the City. At the time of payment, the City shall send a copy of the EFT authorization form, the EFT transaction record, and a transmittal letter, which shall state that the payment is for the Civil Penalty owed pursuant to the Consent Decree in United States v. City of Fitchburg, Massachusetts, and shall reference the civil action number and DOJ case number 90-5-1-1-07874 to the EPA and the United States Department of Justice as specified in Section XV (Form of Notice) by email to acctsreceivable.CINWD@epa.gov, and by mail to:

EPA Cincinnati Finance Office
26 Martin Luther King Drive
Cincinnati, Ohio 45268.

If the City fails to tender payment within 30 Days after the Date of Entry of this Consent Decree, then interest shall accrue on the debt to the United States, from the Date of Entry of this Consent Decree, at the rate provided for in 28 U.S.C. § 1961.

11. Within 30 Days after receiving notice of entry of the Consent Decree, the City shall also pay a civil penalty to the Commonwealth in the form of a certified or cashier's check in the amount of seventy thousand five hundred dollars ($70,500), made payable to "Commonwealth of Massachusetts" and referencing this Consent Decree and the purpose of the payment (e.g., civil penalty, stipulated penalty), and mailed to: Commonwealth of Massachusetts, Office of the Attorney General, One Ashburton Place, Room 1813, Boston, Massachusetts, 02108, Attention: Louis Dundin, Assistant Attorney General, Environmental Protection Division. If the City fails to tender payment within 30 Days of entry of this Consent Decree, then interest shall accrue on the debt to the Commonwealth, from the date of entry of this Consent Decree, at the rate provided for in M.G.L. c. 231 § 6B and shall pay all expenses associated with collection by the Commonwealth of the unpaid amounts and interest for any period of nonpayment after the payment obligation becomes due, including reasonable attorneys' fees and costs of collection incurred by the Commonwealth.

VII. REMEDIAL MEASURES

A. SEWER SYSTEM

Sewer System Operation & Maintenance

12. EPA and the MassDEP have reviewed and conditionally approved the City's Sewer System Operation and Maintenance ("MOM") submittal (which is attached as Attachment 1) subject to the submission by October 31, 2012, of updated assessments of staffing levels,

equipment inventories, and preventative maintenance practices.

Long-Term Sewer System Preventive Maintenance Plan

13. EPA and the MassDEP have reviewed and approved the City's Long-Term Sewer System Preventative Maintenance Program Plan ("Preventative Maintenance Plan"), which is designed as a reference guide for the City's employees.

14. The approved Preventative Maintenance Plan (which is attached at Attachment 2) is incorporated and enforceable hereunder and shall be continuously implemented.

15. By October 31, 2012, the City shall submit to EPA and the MassDEP an assessment of the adequacy of the City's Sewer System maintenance staff, equipment and spare parts inventories.

MOM Corrective Action Plan

16. By October 31, 2012, the City shall submit to EPA and the MassDEP for review and approval a plan to correct any identified operation and maintenance-related deficiencies ("MOM Corrective Action Plan") that includes the following:

a. a list of any operation and maintenance-related deficiencies identified by the MOM Program Self Assessment;

b. a list of the operation and maintenance-related causes and contributing factors that led to the unauthorized discharges identified in the MOM Program Self-Assessment Checklist;

c. a description of the specific short- and long-term actions that the City is taking, or plans to take, in addition to those measures required by this Consent Decree, to address the deficiencies identified during the completion of the MOM Program Self-Assessment Checklist;

d. updated assessments of staffing levels, equipment inventories, and preventative

maintenance practices and

e. a schedule for the implementation of the MOM Corrective Action Plan.

17. The MOM Corrective Action Plan and schedules shall be incorporated and enforceable hereunder upon their approval or conditional approval by EPA and the MassDEP.

Priority Cleaning Plan

18. EPA and the MassDEP have reviewed and approved the City's Priority Cleaning Plan ("Priority Cleaning Plan").

19. The approved Priority Cleaning Plan and schedules (which are attached as Attachment 3) are incorporated and enforceable hereunder.

Routine Cleaning Plan

20. EPA and the MassDEP have reviewed and approved the City's Routine Cleaning Plan.

21. The approved Routine Cleaning Plan and schedules (which are attached as Attachment 4) are incorporated and enforceable hereunder.

Geographic Information System ("GIS") Map

22. EPA and the MassDEP have reviewed and approved the City's currently available geographic information system ("GIS") and other digital mapping of the City's Sewer System which will facilitate the City's operation and maintenance of its Sewer System and its compliance with the requirements of this Consent Decree. Annually, in February of each year, the City shall submit updated maps reflecting newly developed and/or discovered information, corrections, and modifications for review and approval by EPA and the MassDEP in conjunction with the Compliance Reports submitted pursuant to Paragraph 70 of this Consent Decree. Such mapping shall be designed to provide a comprehensive depiction of key infrastructure and

factors influencing the proper operation and maintenance of both systems and each update shall include progress toward achieving that design. Mapping themes shall include: sanitary and storm sewer infrastructure, prior investigation and study findings, cleaning and repair activities, capital projects, and water resource and topographic features. The scale and detail of the maps shall be appropriate to facilitate a clear understanding of the Sewer System by the City, EPA and the MassDEP. In addition, the mapping shall serve as a planning tool for the implementation of future Sewer System remedial measures; and shall delineate the extent of completed and planned investigations and corrections; and other related capital projects. To ensure legible mapping, information shall be grouped appropriately and represented thematically (e.g., by color coding) with legends or schedules where possible. Mapping shall be updated as necessary to reflect newly developed and discovered information, corrections or modifications. The following information and features, as updated and modified with approval, shall at a minimum be included in the mapping:

Base Map

- Municipal boundaries;
- Street names; and
- Private property delineations.

Infrastructure

- Municipal sanitary sewer system (including inter-municipal connections);
- Municipal combined sewer system;
- Municipal separate storm sewer system (including inter-municipal and private connections where available)
- Thematic representation of sewer material, size, and age;

- Sewer flow direction and flow type (e.g., pressure, vacuum, gravity);

- Select rim and invert elevations (for comparison with water table and vertical separation between systems);

- Aerial delineations of major separate storm sewer catchment areas, sanitary sewersheds, combined sewersheds, and areas served by on-site subsurface disposal systems;

- Common/twin-invert manholes or structures ("Combination Manholes") (i.e., structures serving or housing both separate storm and sanitary sewers);

- Sanitary and storm sewer alignments served by known or suspected underdrain systems;

- Sewer alignments with common trench construction and major crossings representing high potential for communication during high groundwater conditions;

- Pump stations (public and private), and other key sewer appurtenances;

- Sewersheds or sewer alignments experiencing inadequate level of service (with indication of reason(s));

- Location(s) of known sanitary sewer overflows ("SSOs") and combined sewer overflows ("CSOs") (with indication of cause(s); and

- Location of all catch basins, and their respective discharge locations (storm sewer, sanitary sewer, or combined sewer systems).

Water Resources and Topographic Features

- Water bodies and watercourses identified by name; and

- Topography

Extraneous Flow Investigations, Remediation, and Capital Projects completed on or after 2009

- Alignments, dates, and thematic representation of work completed (with legend) of past extraneous flow investigations (e.g. flow isolation, dye testing, CCTV, etc.);

- Locations of suspected, confirmed, and corrected illicit discharges (with dates and flow estimates) to the sanitary sewer system;

- Recent and planned sewer infrastructure cleaning and repair projects;

- Alignments and dates of past and planned Infiltration/Inflow ("I/I") investigations and sanitary sewer remediation work;
- Planned Sewer System and storm sewer system capital projects; and
- Proposed phasing of future extraneous flow reduction measures.

Combination Manholes

23. The City shall comply with Part E (Combination Manholes) of its September 1, 2010 NPDES permit and all subsequent re-issuances or modifications of that provision of the City's NPDES permit.

Extraneous Flow Projects and Investigations

Priority Extraneous Flow Reduction Projects

24. On June 29, 2011, the City submitted a Priority Extraneous Flow Reduction Projects Report, which included a list of cost-effective extraneous flow reduction projects, a general description of the projects and their locations, the estimated extraneous flow reductions that would be achieved by implementation of each of the projects, and the proposed implementation schedules. Attachment 5) includes specific descriptions and schematics of each of the projects. The projects and schedules are incorporated and enforceable hereunder.

25. By March 31, 2014, the City shall submit to EPA and the MassDEP for review and approval, a report that evaluates the feasibility of eliminating all remaining intermittent and continuous stream connections to the City's Sewer System that are not remedied by the projects identified in Paragraph 24 and that can be identified with equipment and materials available to the City and it contractors. The report shall delineate the conditions under which the streams discharge to the Sewer System, the estimated extraneous flow contributions to the Sewer System, and a recommendation for the removal of each stream discharge. The report shall include the

costs associated with each removal, and a schedule for each stream discharge that will be relocated. The report's recommendations including a full description of specific projects and schedules shall be incorporated and enforceable hereunder upon their approval or conditional approval by EPA and the MassDEP.

SSES Scope of Work

26. By December 31, 2015, the City shall submit to EPA and the MassDEP for review and approval, a Sewer System Evaluation Survey ("SSES") Scope of Work ("SOW") for the separate sanitary sewer system. For those mini-systems determined to contain excessive I/I, the SSES SOW shall include recommendations, and schedules for their implementation, for additional extraneous flow investigations necessary to identify and, where practicable, quantify both public and private sources of infiltration, Rainfall-Induced Infiltration, and Inflow. The SSES SOW shall be incorporated and enforceable hereunder upon its approval or conditional approval by EPA and the MassDEP.

SSES/SSES Report

27. The City shall conduct an SSES in accordance with the approved SSES SOW and shall submit to EPA and the MassDEP, for review and approval, an SSES Report that identifies all remaining sources of extraneous flow that are cost effective to remove and includes a comprehensive plan for their removal. It shall include, but need not be limited to, the following information for each mini-system investigated under the SSES.

<u>Infiltration/Inflow - Public Sources</u>

a. a listing of identified public sources of I/I;

b. a listing of the public sources that were deemed "Excessive";

c. a narrative description of the cost-effectiveness analyses that were used to determine which public sources of I/I are more cost-effective to remediate than to transport and treat, and the bases of the analyses;

d. proposals for rehabilitating or replacing components found to be structurally deficient or sources of Excessive I/I during the SSES and a schedule for implementing the recommended rehabilitation/replacement measures, including engineering design and construction; and

Infiltration/Inflow - Private Sources

e. Identification of each mini-system in which excessive Rainfall-Induced Infiltration or Inflow is determined to exist. For each mini-system in which excessive Rainfall-Induced Infiltration or Inflow is determined to exist, the SSES shall include, but need not be limited to, the following information:

i. a street map of the mini-system that delineates the location of properties discharging to Sewer System, the location of each property that was determined to be an actual, or potential source of extraneous flow to the Sewer System during any of the City's extraneous flow investigations. The map shall highlight those properties that have disconnected extraneous flows from the Sewer System as well as those properties the City has yet to inspect. The City shall supplement the map with:

ii. a description and address listing of all identified private sources of extraneous flow;

iii. an address listing of the sources that were remediated and the type of remedial measure that was implemented;

iv. the date the remedial measure was implemented;

v. the date that the property was re-inspected to verify that the extraneous flow remains redirected;

vi. the measures that the City plans to use in the future to verify the redirection of private sources of extraneous flow, and a schedule for their implementation;

vii. the measures that the City plans to implement to require other confirmed or potential private sources of extraneous flow to redirect the extraneous flow and a schedule for their implementation; and

viii. a determination of whether it is cost-effective to remediate or redirect identified private sources of extraneous Rainfall-Induced Infiltration and Inflow or to modify the Sewer System to convey the extraneous flow to the City's POTW Treatment Plant. The analysis shall include, but need not be limited to:

1) recommendations regarding the disposition of each identified source of private extraneous flow;

2) an assessment of whether conditions permit redirection of the identified sources to the ground and the range of costs associated with this type of remedial measure;

3) an assessment of the availability of storm sewers and storm sewer capacity and/or whether the Separate Storm Water Sewer System can be extended to receive the identified extraneous flow sources and the range of costs associated with this type of remedial measure;

4) an assessment of the cost of conveyance of extraneous flows to the

City’s POTW without exacerbating downstream overflows;

5) an assessment of cost apportionment, between the City and users, as well as potential incentives for the removal of private sources of extraneous flow;

6) the framework of a City-wide public education plan to promote the elimination of private sources of Rainfall-Induced Infiltration and Inflow and a schedule for the plan's implementation;

7) an evaluation of whether changes in the City's ordinances or by-laws are necessary to implement or facilitate the planned remedial measures. If the City determines that changes in the City's ordinances or by-laws, or in the ordinance(s) of other entities that contribute wastewater to the City's Sewer System are necessary to implement or facilitate the planned remedial measures, the City shall submit a proposed schedule for implementing said ordinances or by-laws and shall:

(a) notify the other entities that contribute wastewater to the City's Sewer System in writing of the changes requested to their ordinances; and

(b) make changes to inter-municipal agreements to require necessary ordinance changes; and

8) a schedule to implement the private extraneous source reduction recommendations of the SSES.

SSES Report Implementation Schedule

28. The SSES recommendations and implementation schedules shall be incorporated and enforceable hereunder upon their approval or conditional approval by EPA and the MassDEP.

Combined Sewer System

29. On April 19, 2011, the City modified CSO regulator 023 to restrict overflows from that location, and convey all flows from upstream of that point to the downstream section of the Sewer System, and convey those flows, to the Sewer System's maximum capacity to the POTW Treatment Plant.

30. By December 31, 2014, the City shall advise EPA whether it is able to permanently close Regulator 023.

31. On February 28, 2012, the City advised EPA and the MassDEP that it had installed continuous monitoring devices (level indicators and high level alarms) to quantify and record the discharges from those CSO locations that were not previously continuously monitored.

32. The City has certified to EPA and the MassDEP that it is inspecting its CSO outfalls in accordance with the Part I.D.2.b of NPDES Permit No. MA0100986. The City shall annually submit for review and approval the inspection certification required by its NPDES Permit to EPA and the MassDEP by February 28th of each year.

33. The City has certified to EPA and the MassDEP that it is quantifying and recording discharges from each of its CSO outfalls and recording hourly precipitation, and cumulative precipitation during CSO discharge events in accordance with the Part I.D.2.e of NPDES Permit No. MA0100986. The City shall submit to EPA and the MassDEP a spreadsheet, organized chronologically, listing the duration of each discharge, the calculated or estimated volume of each discharge, and the cumulative precipitation that occurred during each discharge Day for the preceding calendar year. If quantification of the discharges is not made through direct measurement, the City shall provide the basis of any estimates that are submitted. The City shall

annually submit the above certification and spreadsheet for the previous calendar year to EPA and the MassDEP by February 28th of each year.

34. By February 28th, 2013, and annually thereafter, the City shall provide an itemized list of weir adjustments or other regulator changes that the City has implemented during the prior calendar year. The list must include a description of the changes that were made, the location of the regulator and the date that the changes were made. The listing shall be organized chronologically, and sorted by CSO regulator, highlighting those regulators that are part of the CSO outfall structure.

35. On February 28, 2012, the City described to EPA and the MassDEP the measures that it has implemented to determine whether any of its CSO outfalls discharge during dry-weather. By February 28th of each year, the City shall certify whether, and to what extent, if any, dry-weather discharges from its CSO outfalls have occurred during the previous calendar year.

36. The City shall complete the sewer separation projects described in Attachment 6) (CSO Separation Projects 2B and 3C) in accordance with the following schedule:

a. Having awarded construction contracts by February 29, 2012, place the constructed facilities in operation by December 31, 2013.

b. By December 31, 2014, submit a report to EPA and the MassDEP assessing the effectiveness of the sewer separation projects implemented pursuant to this Paragraph that includes a listing of the public and private Inflow sources that were redirected to the Separate Storm Water Sewer System and a schedule for closure of the affected CSO regulators. If the City determines that the CSO regulator(s) cannot be permanently closed, the City shall submit a schedule for the conduct of additional rehabilitation/replacement measures necessary to close

the affected regulators including, but not limited, to the identification and redirection of the remaining public and private sources of Inflow.

37. The City shall complete the sewer separation projects described in Attachment 7) (CSO Separation Project 4D) in accordance with the following schedule:

a. Having by December 6, 2011, awarded a design contract, by June 30, 2013, award the construction contract.

b. By December 31, 2014, place the constructed facilities in operation.

c. By December 31, 2015, submit a report to EPA and the MassDEP assessing the effectiveness of the sewer separation projects implemented pursuant to this Paragraph that includes a listing of the public and private Inflow sources that were redirected to the Separate Storm Water Sewer System and a schedule for closure of the affected CSO regulators. If the City determines that the CSO regulator(s) cannot be permanently closed, the City shall submit a schedule for the conduct of additional rehabilitation/replacement measures necessary to close the affected regulators including, but not limited, to the identification and redirection of the remaining public and private sources of Inflow.

38. By December 31, 2012, the City shall submit to EPA and the MassDEP for review and approval a post-construction monitoring plan ("PCMP"). The PCMP shall include a monitoring protocol to assess how effective CSO controls constructed pursuant to this Consent Decree are in terms of capturing and treating storm water and protecting receiving waters from CSO impacts. The PCMP shall include a schedule for: a) assessing the impacts of varying precipitation amounts on the discharge characteristics and ambient water quality; and, b) submitting a post-construction monitoring report ("PCMR") to EPA and the MassDEP, which shall be submitted

no later than December 31, 2016. The PCMR shall: compare actual frequency of CSO discharges after completion of combined sewer separation projects 1A, 2B, 3C and 4D to the frequency of CSO discharges predicted by the Hydraulic Model updated pursuant to Paragraph 41, using actual rainfall records as model input; identify the expected frequency of CSOs remaining in a typical year after full implementation of sewer separation projects 1A, 2B, 3C and 4D; characterize the impacts of the expected remaining CSOs in a typical year; and, identify a full range of alternatives for eliminating the environmental impacts from any remaining CSOs.

Emergency Response Plan

39. EPA and the MassDEP have reviewed and approved the City's Emergency Response Plan.

40. The approved Emergency Response Plan (which is attached as Attachment 8) shall continuously be implemented.

Hydraulic Model

41. By December 31, 2016, the City shall update its hydraulic model ("Model") of its Sewer System to include all areas tributary to the POTW Treatment Plant and shall submit a report ("Modeling Report") of the City's Sewer System using a hydraulic modeling software package to EPA and the MassDEP for review and approval. This Model shall evaluate those portions of the Sewer System that surcharge or overflow, including contiguous interceptor sewers 12-inch and greater (unless modeling of smaller diameter sewers is necessary for adequate model calibration/verification). The physical characteristics of each CSO regulator shall be verified and documented.

42. The City shall use the Model to:

a. Assess the hydraulic capacity of each Minisystem that is tributary to, or that contributes to, a capacity-related surcharge, SSO or CSO;

b. Assist in the identification of the appropriate remedial measures to address all capacity limitations identified in the Sewer System;

c. Provide a detailed understanding of both the sanitary sewer system's and combined sewer system's response to seasonal groundwater conditions and wet-weather events; and

d. Evaluate the impacts and prioritize proposed sewer separation projects, remedial measures, and the planned removal of extraneous flows on the volume and frequency of Sewer System surcharges, SSOs and CSOs, and the peak flow delivered to the POTW Treatment Plant.

43. The City shall configure the Model to accurately represent, in accordance with currently accepted engineering practice, each of the City's mini-systems that are tributary to, or that contribute to a Sewer System surcharge, SSO or CSO. The City may model its Sewer System in different levels of detail and with different types of models, as necessary, to identify the causes of all known surcharges or overflows and to assess proposed remedial measures to eliminate those surcharges and overflows. The City shall also identify critical antecedent and seasonal Sewer System flow conditions that contribute to the capacity-related overflows.

44. The City shall configure the Model using adequate, accurate, and sufficiently current physical data (including, but not limited to invert and ground elevations, pipe diameters, slopes, pipe run lengths, Manning roughness factors, manhole sizes and configurations, and pumping station performance factors) for its Sewer System. In particular, the City shall sufficiently field

verify physical data to allow calibration and verification of the Model.

45. The City shall calibrate and verify the Model using appropriate rainfall data, actual hydrographs and Sewer System and CSO outfall monitoring flow data, including, but not limited to the data generated by the additional meters that will be installed pursuant to Paragraph 31 of this Consent Decree. The City shall use at least three separate data sets for calibration and verification. As part of the calibration process, the City shall either use existing sensitivity analyses for the selected Model, or carry out its own sensitivity analyses, to maximize calibration effectiveness.

46. The Modeling Report submitted pursuant to Paragraph 41 shall specifically include the following:

a. A description of the Model;

b. Specific attributes, characteristics, and limitations of the Model;

c. Identification of all input parameters, constants, assumed values, and expected outputs;

d. Digitized map(s) and schematics that identify and characterize the portions (including the specific gravity sewer lines) of the Sewer System that shall be included in the Model;

e. A schematic of each regulator;

f. Identification of input data to be used;

g. Configuration of the Model;

h. Procedures and protocols for performance of sensitivity analyses (such as how the Model responds to changes in input parameters and variables);

i. Procedures for calibrating the Model to account for values representative of the Sewer System's actual system data (e.g., flow data); and

j. procedures for verifying the Model's performance using additional, independent actual Sewer System and POTW Treatment Plant flow data.

Capacity Assessment

47. Within 180 Days of approval or conditional approval by EPA and the MassDEP of the updated Hydraulic Model, the City shall submit a professional engineering evaluation of the conveyance capacity of all Minisystems that are tributary to, or contribute to, any Sewer System surcharges, SSOs and CSOs ("Capacity Assessment") to EPA and the MassDEP for review and approval. The Capacity Assessment shall utilize the Model developed pursuant to Paragraph 41 and shall include an evaluation of all interceptor sewers, pumping stations, force mains and siphons, known areas of Sewer System surcharges, SSOs and CSOs. It shall also address any other portions of the Sewer System that must be assessed so as to allow for a technically-sound evaluation of the causes of all capacity-related surcharges, SSOs and CSOs. It shall also:

a. Identify the hydraulic capacities of the portions of the Sewer System upstream and downstream of all Sewer System surcharges, SSOs and CSOs, and compare those capacities to existing and future projected wet-weather flows. The Capacity Assessment shall identify, within the aforementioned portions of the City's Sewer System, i) those portions of the Sewer System that have caused, or are expected to cause or contribute to, capacity-related Sewer System surcharges, SSOs and CSOs under existing and future peak wet-weather flows, ii) the impacts of capacity-related surcharges, and iii) the frequency and volume of overflow, including Private Property/Building Backup;

b. Consider local rainfall data, critical antecedent in-system flow conditions, and the impact of an appropriate range of rainfall events, based on return frequency and duration, and an appropriate continuous period of rainfall records on peak wet-weather flows within those portions of the City's Sewer System that are tributary to, or contribute to, capacity-related surcharges and overflows;

c. Characterize Sewer System performance by identifying, for each condition considered, each pipe segment operating in surcharge and overflow condition, each manhole or structure at which an SSO or CSO might be expected to occur; and

d. Evaluate the City's ability to comply with its NPDES Permit, and eliminate its capacity-related surcharges, SSOs and CSOs based on the Sewer System work performed and POTW Treatment Plant and Sewer System rehabilitation and remedial measures planned for the future. Long-term model simulations are preferred for evaluating abatement alternatives. Unless otherwise approved by EPA and the MassDEP, a five-year period with historical hourly rainfall that represents a variety of weather conditions (average wet, dry) shall be used to characterize the level of CSO control (annual volume and number of annual activations).

B. POTW TREATMENT PLANT

Phosphorus Upgrades

48. By May 31, 2012, the City shall award the construction contract for the implementation of the WWTF measures outlined in Attachment 9.

49. By May 31, 2013, the City shall complete construction of the WWTF measures outlined in Attachment 9.

Long-Term Preventive Maintenance Plan

50. EPA and the MassDEP reviewed and approved the City’s Long-Term POTW Treatment

Plant Preventative Maintenance Program Plan ("Preventative Maintenance Plan") subject to conditions set forth in an approval letter dated April 26, 2012.

51. The conditionally approved Preventative Maintenance Plan (which is attached as Attachment 10) is incorporated and enforceable hereunder and shall continuously be implemented.

POTW Treatment Plant Optimization Evaluation Report

52. EPA and the MassDEP have reviewed and approved the City's POTW Optimization Evaluation Report submitted on January 31, 2012.

53. The approved POTW Optimization Evaluation Report's recommended capital improvement plan and implementation schedule, including power source upgrade milestones, (which are attached as Attachment 11) are incorporated and enforceable hereunder except as modified by Paragraph 55.a. of this Consent Decree.

Wet-Weather Operations

54. Pending the implementation of wet weather chemically-enhanced primary treatment in accordance with Paragraph 49 of this Consent Decree and the recommendations of the POTW Treatment Plant Optimization Evaluation Report (including the secondary system improvement project outlined therein) approved pursuant to Paragraph 52, or until the installation of septage storage capacity as approved by EPA and the MassDEP, the City shall not introduce septage or high-strength side streams not associated with plant operations into any portion of the process train that bypasses the secondary treatment system when secondary treatment is being bypassed or when a secondary treatment system bypass is likely to occur within two (2) hours.

C. WASTEWATER MANAGEMENT PLAN

55. By July 1, 2018, the City shall submit to EPA and the MassDEP for review and approval a Wastewater Management Plan ("WMP") that reflects all relevant information collected as a result of implementation of this Consent Decree. The WMP shall:

a. Include an itemized schedule for the construction of facilities necessary to meet the seasonal (April 1-October 31) total phosphorus concentration-based limit of 0.2 mg/l, found in Part I.A.1 of the Permit, at page 3; and the seasonal (April 1-October 31) total phosphorus mass-based limit of 20.7 lb/day, found in Part I.A.1 of the Permit, at page 3 (the "Total Phosphorus Permit Limits") as expeditiously as practicable within the City's financial capacity and consistent with sound engineering practice and normal construction practices..

b. Include an itemized schedule for commencement and completion of proposed additional investigations, remedial measures, and capital improvements to the City's wastewater collection and treatment infrastructure, necessary to meet the CSO conditions in the Permit by no later than December 31, 2030, including compliance with conditions based on water quality standards established and revised under 40 C.F.R. Part 131 in accordance with the guidance set forth in (i) Coordinating CSO Long-Term Planning with Water Quality Standards Reviews, EPA-833-R-01-002, July 31, 2001, and (ii) MassDEP Guidance for Abatement of Pollution from CSO Discharges (August 11, 1997), as one or both may be amended in the future.

c. In proposing its WMP schedule, the City shall consider: i) the extent to which each proposed project will decrease pollutant loading to the receiving water and the impact on the impairment of uses; ii) the cost and cost-effectiveness of each proposed project; and iii) the

schedules for completing the projects. The WMP and the schedules incorporated therein shall be enforceable hereunder upon the WMP's approval or conditional approval by EPA and the MassDEP.

d. The WMP shall include the results of any water quality standards review, including a use attainability analysis if such an analysis is conducted. If a standards review is in progress but has not been completed, the WMP shall describe the status of the standards review and include a schedule for completing the review, including any use attainability analysis.

e. In developing the WMP, the City is encouraged to consider evaluating potential Best Management Practices, including the use of all appropriate "green infrastructure" and "low impact development" techniques currently available to reduce Inflow.

f. The WMP shall be incorporated and enforceable hereunder upon its approval or conditional approval by EPA and the MassDEP

56. On or before December 31, 2020 and December 31, 2023, the City shall submit to EPA and MassDEP for review and approval an updated WMP report that shall include, at a minimum, a description of all infrastructure improvements and programs that have been implemented during the previous period to comply with the conditions of this Consent Decree and to meet the limits and other conditions of the Permit, the cost of such efforts to date, a description of efforts planned for the next 3-year period, and an assessment of the abatement anticipated to be achieved related to such efforts.

D. ILLICIT CONNECTIONS

57. By June 30, 2012, the City shall submit to EPA and the MassDEP for review and

approval an amendment to its February 17, 2011 letter report documenting the findings and the actions taken by the City in response to its dry-weather and wet-weather monitoring submitted to EPA on November 29, 2007, and December 31, 2008, respectively. The IDDE Report shall include, but shall not be limited to, the following information:

a. A list of illicit connections identified to date;

b. The estimated flow from each connection;

c. The specific actions taken by the City to remove each connection;

d. The date each connection was removed;

e. The cost of removing each connection;

f. A map or figure indicating the location of each illicit connection;

g. For those identified illicit connections that have yet to be redirected from the City's Separate Storm Water Sewer System, the City shall provide a schedule for their redirection; and

h. The measures taken to verify that each identified illicit connection is removed.

E. INTERIM PHOSPHORUS LIMITS

58. From the effective date of this Consent Decree until the date the WWTF improvements outlined in Attachment 9 are fully operational, or if EPA determines that the City has not complied with the POTW Treatment Plant schedule milestones set forth in Paragraphs 48 and 49 of this Consent Decree, the City shall comply with the interim effluent limitations and monitoring requirements contained in Attachment 9a of this Consent Decree. Upon both (i) the completion of the tasks required by Paragraphs 48 and 49 of this Consent Decree; and (ii) when the WWTF improvements outlined in Attachment 9 are fully operational, the City shall comply

with the interim effluent limitations and monitoring requirements contained in Attachment 9b of this Consent Decree.

VIII. SUPPLEMENTAL ENVIRONMENTAL PROJECT

59. The City shall implement a Supplemental Environmental Project consisting of stream bank stabilization for Falulah Brook ("SEP") for a portion of the stream bank in Fitchburg's Coolidge Park. The SEP will result in the restoration of approximately 300 linear feet of the stream bank.

60. The City is responsible for the satisfactory completion of the SEP in accordance with the requirements of this Decree. "Satisfactory completion" means fulfilling the requirements described in Attachment 12. The City may use contractors or consultants in planning and implementing the SEP.

61. The City certifies the truth and accuracy of each of the following:

a. That all cost information provided to EPA in connection with EPA's approval of the SEP is complete and accurate and that the City in good faith estimates that the cost to implement the SEP is at least $100,000;

b. That, as of the date of executing this Consent Decree, the City is not required to perform or develop the SEP by any federal, state, or local law or regulation and is not required to perform or develop the SEP by agreement, grant, or as injunctive relief awarded in any other action in any forum;

c. That the SEP is not a project that the City was planning or intending to construct, perform, or implement other than in settlement of the claims resolved in this Consent Decree;

d. That the City has not received and will not receive credit for the SEP in any other

enforcement action; and

e. That the City will not receive any reimbursement for any portion of the SEP from any other person.

62. SEP Completion Report

a. Within 30 Days after the date set for completion of the SEP, the City shall submit a SEP Completion Report to the United States, EPA, and the MassDEP in accordance with Section XV of this Consent Decree (Form of Notice). The SEP Completion Report shall contain the following information:

i. a detailed description of the SEP as implemented;

ii. a description of any problems encountered in completing the SEP and the solutions thereto;

iii. an itemized list of all eligible SEP costs expended;

iv. certification that the SEP has been fully implemented pursuant to the provisions of this Consent Decree; and

v. a description of the environmental and public health benefits resulting from implementation of the SEP (with a quantification of the benefits and pollutant reductions, if feasible).

63. EPA may, in its sole discretion, require information in addition to that described in the preceding Paragraph in order to evaluate the SEP Completion Report.

64. After receiving the SEP Completion Report, the United States shall notify the City whether or not the City has satisfactorily completed the SEP. If the City has not completed the SEP in accordance with this Consent Decree, stipulated penalties may be assessed under Section

XI of this Consent Decree (Stipulated Penalties).

65. Disputes concerning the satisfactory performance of the SEP and the amount of eligible SEP costs may be resolved under Section XIII of this Consent Decree (Dispute Resolution). No other disputes arising under this Section shall be subject to Dispute Resolution.

66. Each submission required under this Section shall be signed by an official with knowledge of the SEP and shall bear the certification language set forth in Paragraph 104.

67. Any public statement, oral or written, in print, film, or other media, made by the City making reference to the SEP under this Decree shall include the following language: "This project was undertaken in connection with the settlement of an enforcement action, United States v. the City of Fitchburg, Massachusetts, taken on behalf of the U.S. Environmental Protection Agency under the Clean Water Act."

68. The City certifies that it is not a party to any open federal financial assistance transaction that is funding or could be used to fund the same activity as the SEP. The City further certifies that, to the best of its knowledge and belief after reasonable inquiry, there is no such open federal financial transaction that is funding or could be used to fund the same activity as the SEP, nor has the same activity been described in an unsuccessful federal financial assistance transaction proposal submitted to EPA within two years of the date of this settlement (unless the project was barred from funding as statutorily ineligible). For the purposes of this certification, the term "open federal financial assistance transaction" refers to a grant, cooperative agreement, loan, federally-guaranteed loan guarantee or other mechanism for providing federal financial assistance whose performance period has not yet expired.

IX. REPORTING

69. As soon as practicable, but no later than twenty-four (24) hours after learning of any SSO, discharge of sanitary flows to a storm drain, discharge from a combined sewer during dry weather, or Building/Private Property Backup, the City shall provide an oral report to EPA by calling Michael Fedak at (617) 918-1766 and to MassDEP by calling Robert Kimball during regular business hours, at (508) 767-2722. If the City learns of such event at any time other than normal business hours, the City shall also notify EPA at the above phone number and MassDEP's Emergency Response Unit by calling (888) 304-1133. The oral report shall identify the location, estimated volume and receiving water(s), if any, of such event. The City, shall also, within five (5) Days of learning of such event, send a facsimile report to EPA, to the attention of Michael Fedak, at (617) 918-0766 and to MassDEP, to the attention of Robert Kimball at (508) 849-4035. The facsimile reports shall be submitted in the form attached as Attachment 13 and shall include the following information:

a. The date, time and location of the event, including a description of the Sewer System component from which the release occurred (e.g., manhole, constructed overflow pipe, crack in pipe);

b. The circumstances that led to the event;

c. The estimated volume of the wastewater released;

d. Whether the released flows reached a wetland or surface water and, if so, the identity of the receiving waters and the estimated volume of the flows that reached those waters;

e. Steps taken (or the steps to be taken) to mitigate the impact(s) of the event,

including treatment of any of the discharge, and when those steps were (or will be) taken;

f. If any of the flow was treated, the volume of the flow treated and the volume of treated flow that reached receiving waters;

g. The steps taken (or the steps to be taken) to eliminate and prevent reoccurrence of the event and when those steps were (or will be) taken;

h. A description of the cleanup efforts taken or intended to be taken; and

i. The date of the last overflow event at the same location.

EPA and the MassDEP will advise the City in writing in the event of any change in personnel to whom oral and facsimile reports should be made.

70. By February 28, 2013, and every six months by each February 28th and August 31st thereafter until completion of all the Remedial Measures in Section VII, the City shall report to EPA and MassDEP on its compliance with Section VII during the preceding six-month period (February 1st through July 31st, and August 1st through January 31st). Each progress report submitted under this Paragraph shall:

a. Describe activities undertaken during the reporting period directed at achieving compliance with this Consent Decree;

b. Describe the expected activities to be taken during the next reporting period in order to achieve compliance with this Consent Decree; and

c. Identify any noncompliance with this Consent Decree=s requirements, including any schedules set forth or incorporated herein. If noncompliance is reported, notification should include the following information:

i. A description of the noncompliance;

ii. A description of any actions taken or proposed by the City to comply with any missed schedule milestones;

iii. A description of any factors that might explain or mitigate the noncompliance; and

iv. An approximate date by which the City will perform the required action.

d. A statement on the frequency and volume of CSOs that occurred during the reporting period.

71. By January 31, 2013, and annually thereafter, the City shall submit to EPA and the MassDEP a Compliance Report that shall include, at a minimum, the following items:

a. A list of SSO and dry-weather CSO events that occurred during the Reporting Period, including all releases with a reasonable potential to reach surfaces waters such as releases to streets or areas with storm drain catch basins; a list of Building/Private Property Backups during the Reporting Period; and a list of citizen reports of SSO and dry-weather CSO events or Building/Private Property Backups during the Reporting Period. The three separate tabular listings of all such events shall be organized chronologically and shall include the following:

i. The date and times each event was discovered/reported and was stopped;

ii. The location by address;

iii. The final disposition of the wastewater from each such event, including whether it discharged to the ground, the street, or surface water (Note: In all instances, the name of the water body, street, or intersecting streets nearest each event shall be provided, and if the release occurred to the ground or street, the name of the nearest downgradient stormwater catch

basin and the name of the receiving water of the separate stormwater sewer system shall be noted);

iv. The source of notification (e.g., property owner, general public, field crew, police);

v. The cause(s) of the event (including, but not limited to, vandalism, sediments, roots, grease, mechanical, electrical and structural failures, and capacity issues);

vi. A determination of whether the event was caused blockages or hydraulic limitations within the publicly-owned portion of the Sewer System;

vii. The measures taken to stop the event;

viii. The estimated gallons of wastewater released, the estimated gallons of wastewater that reached a surface water, and the bases for these estimates; and

ix. The date of the last release of wastewater that occurred at the event location.

x. A GIS map or figure, consistent with the requirements of Paragraph 22, indicating the location of each event.

b. A brief explanation of how the City expects to meet its water quality-based CSO compliance obligations.

72. The reporting requirements set forth in this Section do not relieve the City of its obligation to submit any other reports or information as required by State, Federal or local laws, regulations, or ordinances.

X. REVIEW AND APPROVAL

73. After review of any plan, schedule, report, or other item that is required to be submitted for approval by EPA and the MassDEP pursuant to this Consent Decree, EPA and the MassDEP shall in writing:

a. approve, in whole or in part, the submission;

b. approve, in whole or in part, the submission upon specified conditions; or

c. disapprove, in whole or in part, the submission.

74. In the event of approval pursuant to Paragraph 73.a, the City shall take all actions required to implement such plan, schedule, report, or other item, as approved. In the event of approval in part pursuant to Paragraph 73.a, or approval upon specified conditions pursuant to Paragraph 73.b, upon written direction of EPA and MassDEP, the City shall take all actions required by the approved plan or schedule, report or other item that EPA and MassDEP determine are technically severable from any disapproved portions, subject to the City's right to dispute only the specified conditions or non-approved portions pursuant to Section XIII (Dispute Resolution).

75. Upon receipt of a written notice of disapproval pursuant to Paragraph 73.c, the City shall, within thirty (30) Days or such other time as the City, the MassDEP and EPA agree in writing, correct the deficiencies and resubmit the plan, schedule, report, or other item, or portion thereof, for approval. Any stipulated penalties applicable to the original submission shall accrue during the thirty (30) Day period or other specified period, but shall not be payable unless the resubmission is untimely and/or disapproved as provided in Paragraph 73; provided that, if the original submission was disapproved by EPA and the MassDEP in whole, stipulated penalties

applicable to the original submission shall be due and payable upon demand notwithstanding any subsequent resubmission.

76. In the event that a resubmitted plan, report or other item, or portion thereof, is disapproved by EPA and the MassDEP, the Plaintiffs may again require the City to correct the deficiencies in accordance with the preceding Paragraphs.

77. If upon resubmission, a plan, report, or item, or portion thereof, is disapproved by EPA and the MassDEP, the City shall be bound by the Plaintiffs' decision unless the City invokes the dispute resolution procedures set forth in Section XIII (Dispute Resolution) within ten (10) Days of receipt of EPA's and the MassDEP's last written position. If EPA's and the MassDEP's disapproval is upheld after dispute resolution, stipulated penalties shall accrue for the violation from the date of the disapproval of the original submission.

78. All plans, reports, and other items required to be submitted to EPA and the MassDEP under this Consent Decree shall, upon approval by EPA and the MassDEP, be enforceable under this Consent Decree. In the event EPA and the MassDEP approves a portion of a plan, report, or other item required to be submitted under this Consent Decree, the approved portion shall be enforceable under this Consent Decree.

79. In the event a dispute arises among the Parties regarding EPA's and the MassDEP's approval upon specified conditions or disapproval in part or in whole of any plans, reports, and other items required to be submitted to EPA and the MassDEP under this Consent Decree, the position of EPA and the MassDEP shall govern unless the City invokes the dispute resolution procedures set forth in Section XIII (Dispute Resolution) within 30 Days of receipt of EPA's and the MassDEP's written position.

XI. STIPULATED PENALTIES

80. The City shall pay stipulated penalties to the United States and the MassDEP for violations or noncompliance with the requirements of this Consent Decree, as set forth below, unless excused under Section XII (Force Majeure). A violation or noncompliance includes failing to perform an obligation required by the terms of this Consent Decree, including any work plan or schedule approved under this Consent Decree, according to all applicable requirements of this Consent Decree and within the specified time schedules or by the date(s) established by or approved under this Consent Decree:

a. Late Payment of Civil Penalty. If the City fails to pay the Civil Penalty required to be paid under Section VI (Civil Penalty) when due, the City shall pay a stipulated penalty as follows:

Penalty Per Violation Per Day	Period of Noncompliance
$ 750	1st through 10th Day
$ 1,000	11th through 20th Day
$ 2,500	21st Day and beyond.

b. Reporting Requirements. For every Day that the City fails to timely submit a report required by Paragraphs 69, 70 or 71 of this Consent Decree or fails to provide the certification required by Paragraph 104, the City shall pay a stipulated penalty as follows:

Penalty Per Violation Per Day	Period of Noncompliance
$ 500	1st through 14th Day
$ 750	15th through 30th Day
$ 1,000	31st Day and beyond.

c. Unpermitted Discharges. For each Day that an SSO or dry-weather CSO occurs, the City shall pay a stipulated penalty of $5,000. Notwithstanding the foregoing, the City shall

not be liable for such a stipulated penalty if all of the following conditions are met: (i) the City stopped the SSO or dry-weather CSO as soon as reasonably practicable; (ii) the City is in full compliance with the schedules and other requirements set forth pursuant to Section VII (Remedial Measures) of this Consent Decree related to the particular facility from which the overflow occurred; and (iii) the City has complied with all reporting requirements related to the SSO or dry-weather CSO discharges, including but not limited to those set forth in Paragraph 71 of this Consent Decree.

d. Remedial Measures. For every Day that the City fails timely to meet the requirements of Section VII (Remedial Measures) of this Consent Decree, including but not limited to, submitting an approvable plan, schedule, report, or other item, other than a report required by Paragraphs 69 thru 71, or fails to implement remedial requirements in a plan, schedule, report, or other item approved by EPA and the MassDEP, the City shall pay a stipulated penalty as follows:

Penalty Per Violation Per Day	Period of Noncompliance
$ 750	1st through 14th Day
$ 1,000	15th through 30th Day
$ 2,500	31st Day and beyond.

81. Stipulated penalties shall automatically begin to accrue on the Day after performance is due or on the Day a violation occurs and shall continue to accrue each Day until performance is satisfactorily completed or until the violation or noncompliance ceases. Stipulated penalties shall accrue simultaneously for separate violations of or instances of noncompliance with this Consent Decree.

82. Following the United States' or the MassDEP=s determination that the City has failed to comply with a requirement of this Consent Decree, the United States or the MassDEP may give the City written notification of the same and describe the noncompliance. The United States or the MassDEP may send the City a written demand for the payment of the stipulated penalties. However, the stipulated penalties shall accrue as provided in the preceding Paragraph regardless of whether the United States or the MassDEP has notified the City of a violation of or noncompliance with the requirements of this Consent Decree, or demanded payment of stipulated penalties.

83. The City shall pay stipulated penalties as specified in this Section by delivering the payments to the United States and the Commonwealth within thirty (30) Days of the date of a demand for payment of stipulated penalties, in accordance with the instructions set forth below:

a. The City shall pay stipulated penalties, fifty percent to the United States and fifty percent to the Commonwealth of Massachusetts in the manner set forth and with the confirmation notices required by Paragraphs 10 and 11, except that the transmittal letters shall state that the payment is for stipulated penalties and shall state for which violation(s) or noncompliance the penalties are being paid.

b. In the event the City fails to pay stipulated penalties according to the terms of this Consent Decree, such penalty (or portion thereof) shall be subject to interest at the statutory judgment rate set forth at 28 U.S.C. § 1961, accruing as of the date payment became due. Nothing in this Paragraph shall be construed to limit the United States or the Commonwealth from seeking any remedy otherwise provided by law for failure of the City to pay any stipulated penalties.

84. Stipulated penalties shall continue to accrue as provided in Paragraph 81, during any dispute resolution, but need not be paid until the following:

a. If the dispute is resolved by agreement or a decision of the United States that is not appealed to the Court, the City shall pay accrued penalties determined to be owed, together with interest accruing at the rate specified in 28 U.S.C. § 1961, to the United States and the Commonwealth within thirty (30) Days of the effective date of the agreement or the receipt of the United States' decision or order.

b. If the dispute is appealed to the Court and the United States prevails in whole or in part, the City shall pay all accrued penalties, together with interest, within thirty (30) Days of receiving the Court's decision or order, except as provided in Subparagraph c below

c. If any Party appeals the District Court's decision, the City shall pay all accrued penalties determined to be owed, together with interest, within fifteen (15) Days of receiving the final appellate court decision.

85. The stipulated penalties set forth above shall be in addition to any other remedies, sanctions, or penalties which may be available by reason of the City's failure to comply with the requirements of this Consent Decree. The United States and the Commonwealth expressly reserve any and all legal and equitable remedies, including contempt sanctions, which may be available to enforce the provisions of this Consent Decree.

XII. FORCE MAJEURE

86. "Force Majeure," for purposes of this Consent Decree, is defined as any event arising from causes entirely beyond the control of the City or of any entity controlled by the City, including its engineers, consultants, contractors and subcontractors, that delays or prevents the

timely performance of any obligation under this Consent Decree notwithstanding the City's best efforts to fulfill the obligation. The requirement that the City exercise "best efforts" includes using best efforts to anticipate any potential Force Majeure event and best efforts to address the effects of any such event (a) as it is occurring and (b) after it has occurred to prevent or minimize any resulting delay to the greatest extent possible. "Force Majeure" does not include the City's financial inability to perform any obligation under this Consent Decree. Stipulated Penalties shall not be due for the number of Days of noncompliance caused by a Force Majeure event as defined in this Section, provided that the City complies with the terms of this Section.

87. If any event occurs that may delay or prevent the performance of any obligation under this Consent Decree, whether or not caused by a Force Majeure event, the City shall notify EPA and the MassDEP within seventy-two (72) hours after the City first knew or should have known that the event might cause a delay. Within ten (10) working Days thereafter, the City shall submit for review and approval by EPA, at the addresses specified in Section XV (Form of Notice), a written explanation of the cause(s) of any actual or expected delay or noncompliance, the anticipated duration of any delay, the measure(s) taken and to be taken by the City to prevent or minimize the delay, a proposed schedule for the implementation of such measures, and a statement as to whether, in the opinion of the City, such event may cause or contribute to an endangerment to public health, welfare, or the environment. Notwithstanding the foregoing, the City shall notify EPA and MassDEP orally within twenty-four (24) hours of becoming aware of any event that presents an imminent threat to the public health or welfare or the environment and provide written notice to EPA and MassDEP within seventy-two (72) hours of discovery of such event. The City shall be deemed to know of any circumstances of which the City, any entity

controlled by the City, or the City's contractors knew or should have known. Failure to provide timely and complete notice in accordance with this Paragraph shall constitute a waiver of any claim of Force Majeure with respect to the event in question.

88. If EPA agrees that a delay or anticipated delay is attributable to Force Majeure, the time for performance of the obligations under this Consent Decree that are affected by the Force Majeure event shall be extended by EPA, after a reasonable opportunity for review and comment by MassDEP, for a period of time as may be necessary to allow performance of such obligations. EPA will notify the City in writing of the length of the extension, if any, for performance of the obligations affected by the Force Majeure event.

89. If EPA does not agree the delay or anticipated delay is attributable to Force Majeure, or on the number of Days of noncompliance caused by such event, EPA will notify the City in writing of its decision. The City may then elect to initiate the dispute resolution process set forth in Section XIII (Dispute Resolution). In any dispute resolution proceeding, the City shall have the burden of demonstrating by a preponderance of the evidence that the delay or anticipated delay has been or will be caused by a Force Majeure event, that the duration of the delay or the extension sought was or will be warranted under the circumstances, that "best efforts" were exercised to avoid and mitigate the effects of the delay, and that the City complied with the requirements of Paragraphs 86 and 87, above. If the City carries this burden, the delay at issue shall be deemed not to be a violation by the City of the affected obligation(s) of this Consent Decree identified to EPA and the Court.

90. Delay in performance of any obligation under this Consent Decree shall not automatically justify or excuse delay in complying with any subsequent obligation or requirement of this Consent Decree.

91. Failure of the City to obtain any Commonwealth or federal grants or loans shall not be considered a Force Majeure event under this Consent Decree.

XIII. DISPUTE RESOLUTION

92. Unless otherwise expressly provided for in this Consent Decree, the dispute resolution procedures set forth in this Section shall be the exclusive mechanism to resolve disputes arising under or with respect to this Consent Decree. The City's failure to seek resolution of a dispute under this Section shall preclude the City from raising any such undisputed issue as a defense to an action by the United States or the Commonwealth to enforce any obligation of the City arising under this Consent Decree. The procedures set forth in this Section shall not apply to actions by the United States or the Commonwealth to enforce obligations that the City has not disputed in accordance with this Section.

93. Informal Dispute Resolution. Any dispute subject to dispute resolution under this Consent Decree shall first be the subject of informal negotiations. The dispute shall be considered to have arisen when the City sends the United States and the Commonwealth a written Notice of Dispute. Such Notice of Dispute shall state clearly the matter in dispute, and shall be accompanied by a Statement of Position that shall include, but need not be limited to, any factual data, analysis, or opinion supporting that position and any supporting documentation relied upon by the City. The period of informal negotiations shall not exceed thirty (30) Days from the date the dispute arises, unless that period is modified by written agreement between the

Parties. EPA shall maintain an administrative record of the dispute, which shall contain all statements of the Parties, including supporting documentation, submitted pursuant to this Section.

94. In the event that the City elects to invoke dispute resolution according to this Section, the City shall do so by giving the United States and the Commonwealth written notice of the existence of the dispute within ten (10) Days after receipt of a notice of disapproval, approval with conditions or modification, a Force Majeure determination by EPA, or a written demand for payment of stipulated penalties. If the City fails to give such notice, it shall be deemed to have waived any right to invoke dispute resolution regarding such dispute, and the position advanced by the United States and/or the Commonwealth as appropriate shall be considered binding.

95. If the Parties cannot resolve a dispute by informal negotiations, then the position advanced by the United States or the United States and the Commonwealth as appropriate shall be considered binding unless, within thirty (30) Days after the conclusion of the informal negotiation period, the City seeks judicial review of the dispute by filing with the Court and serving on the United States and the Commonwealth, in accordance with Section XV (Form of Notice), a motion requesting judicial resolution of the dispute. Any such motion shall contain a written statement of the City's position on the matter in dispute, including any supporting factual data, analysis, opinion, or documentation, and shall set forth the relief requested and any schedule within which the dispute must be resolved for orderly implementation of the Consent Decree.

96. The United States and the Commonwealth shall respond to the City's motion within the time period allowed by the Federal Rules of Civil Procedure and the Local Rules of this Court.

The City may file a reply memorandum, to the extent permitted by the Federal Rules of Civil Procedure and the Local Rules.

97. Standard of Review.

a. Disputes Concerning Matters Accorded Record Review. Except as otherwise provided in this Consent Decree, any dispute brought under this Section pertaining to the adequacy or appropriateness of plans, procedures to implement plans, schedules, or any other items requiring approval by EPA and MassDEP under this Consent Decree; the adequacy of the performance of work undertaken pursuant to this Consent Decree; and all other disputes that are accorded review on the administrative record under applicable principles of administrative law, the City shall have the burden of demonstrating, based upon the administrative record, that the United States' and the Commonwealth's positions are arbitrary and capricious or otherwise not in accordance with law.

b. Other Disputes. Except as otherwise provided in this Consent Decree, in any other dispute brought under this Section, the City shall bear the burden of demonstrating that its position complies with this Consent Decree, furthers the objectives of this Consent Decree more positively than the position advanced by the United States and the Commonwealth, and that the City is entitled to relief under applicable principles of law

98. The invocation of dispute resolution procedures under this Section shall not, by itself, extend, postpone, or affect in any way any obligation of the City under this Consent Decree, unless and until final resolution of the dispute so provides. Stipulated penalties with respect to the disputed matter shall continue to accrue from the first Day of noncompliance, but payment shall be stayed pending resolution of the dispute as provided in Paragraph 84. If the City does

not prevail on the disputed issue, stipulated penalties shall be assessed and paid as provided in Section XI (Stipulated Penalties).

XIV. RIGHT OF ENTRY AND DOCUMENT RETENTION

99. EPA and MassDEP and their contractors, consultants, and attorneys shall have authority to enter any property and/or facility owned or controlled by the City, at all reasonable times, upon proper identification, for the purposes of: (a) monitoring the progress of activity required by this Consent Decree; (b) verifying any data or information submitted to EPA or MassDEP under this Consent Decree; (c) assessing the City's compliance with this Consent Decree; (d) obtaining samples and, upon request, splits of any samples taken by the City or its representatives, contractors, or consultants; and (e) obtaining documentary evidence, including photographs and similar data. Upon request, EPA and MassDEP shall provide the City splits of any samples taken by EPA or MassDEP.

100. Until five years after the termination of this Consent Decree, the City shall retain all non-identical copies of all documents, records, or other information (including documents, records, or other information in electronic form) generated by the City, and all data collected and all reports generated by the City's contractors (including data and reports in electronic form), that relate in any manner to the City's performance of its obligations under this Consent Decree. This information retention requirement shall apply regardless of any contrary corporate or institutional policies or procedures. At any time during this information-retention period, upon request by the United States or the Commonwealth, the City shall provide copies of any documents, records, or other information required to be maintained under this Paragraph.

101. At the conclusion of the information-retention period provided in the preceding Paragraph, the City shall notify the United States and the Commonwealth at least ninety (90) Days prior to the destruction of any documents, records, or other information subject to the requirements of the preceding Paragraph and, upon request by the United States or the Commonwealth, the City shall deliver any such documents, records, or other information to EPA and the MassDEP. The City may assert that certain documents, records, or other information is privileged under the attorney-client privilege or any other privilege recognized by federal law. If the City asserts such a privilege, it shall provide the following: (a) the title of the document, record, or information; (b) the date of the document, record, or information; (c) the name and title of each author of the document, record, or information; (d) the name and title of each addressee and recipient; (e) a description of the subject of the document, record, or information; and (f) the privilege asserted by the City. However, no documents, records, data, reports or other information created or generated pursuant to the requirements of this Consent Decree shall be withheld on grounds of privilege.

102. This Consent Decree in no way limits or affects any right of entry and inspection, or any right to obtain information, held by the United States or the Commonwealth pursuant to applicable federal or Commonwealth laws, regulations, or permits, nor does it limit or affect any duty or obligation of the City to maintain documents, records, or other information imposed by applicable federal or Commonwealth laws, regulations, or permits.

XV. FORM OF NOTICE

103. Submissions required by this Consent Decree shall be made electronically, in writing by certified mail with return receipt, or by any reliable commercial delivery service that provides

written verification of delivery to the following respective addressees, unless written notice is given that another individual has been designated to receive the submissions. Any submission required by this Consent Decree must be received by EPA and/or the MassDEP, as appropriate, upon the due date stated in this Consent Decree.

As to the Department of Justice

Chief, Environment Enforcement Section
Environment and Natural Resources Division
United States Department of Justice
P.O. Box 7611, Ben Franklin Station
Washington, D.C. 20044
(202) 514-5268

As to the United States Attorney

Anton P. Giedt
Assistant U.S. Attorney
John Joseph Moakley U.S. Courthouse
1 Courthouse Way, Suite 9200
Boston, MA 02210

As to the EPA

Reports and plans required to be submitted by the City to EPA shall be submitted to Michael Fedak, with a copy of the transmittal letter only to Michael Wagner. The City shall provide complete copies to both Michael Fedak and Michael Wagner of all other submissions required to be made by the City to EPA pursuant to this Consent Decree.

Michael Fedak
Environmental Engineer
U.S. EPA
Mail Code: OES04-3
5 Post Office Square
Boston, MA 02109-3912

Michael Wagner
Enforcement Counsel
U.S. EPA
Mail Code: OES04-3

5 Post Office Square
Boston, MA 02109-3912

As to the MassDEP

Robert Kimball
Massachusetts Department of
Environmental Protection
Central Regional Office
627 Main Street
Worcester, MA 01608

As to the Commonwealth

Louis Dundin
Assistant Attorney General
Massachusetts Office of the
Attorney General
One Ashburton Place
Boston, MA 02108

As to the City of Fitchburg, Massachusetts

Lenny Laakso
Commissioner
Department of Public Works
City of Fitchburg
718 Main Street
Fitchburg, MA 01420

Joseph Jordan
Deputy Commissioner
Fitchburg Wastewater Treatment Facilities
718 Main Street
Fitchburg, MA 01420

John B. Barrett
City Solicitor
City of Fitchburg
718 Main Street
Fitchburg, MA 01420

104. All written notices, reports and all other submissions required by this Consent Decree shall contain the following certification by a duly authorized representative of the City:

> I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

XVI. EFFECT OF SETTLEMENT

105. This Consent Decree resolves the civil claims of the United States and the Commonwealth for the violations alleged in the Complaints filed in this action through the Date of Lodging.

106. This Consent Decree is neither a permit nor a modification of any existing permit under any federal, Commonwealth, or local law or regulation. The City is responsible for achieving and maintaining complete compliance with all applicable federal, Commonwealth, and local laws and regulations, and permits, and the City's compliance with this Consent Decree shall be no defense to any action commenced pursuant to any such laws, regulations, or permits, except as set forth herein. The United States and the Commonwealth do not, by their consent to the entry of this Consent Decree, warrant or aver in any manner that the City's compliance with any aspect of this Consent Decree will result in compliance with provisions of the CWA or with any other provisions of federal, Commonwealth, or local laws, regulations or permits. This Consent Decree shall not be construed to constitute EPA and/or MassDEP approval of any equipment or technology installed by the City under the terms of this Consent Decree.

107. This Consent Decree does not limit any rights or remedies available to the United States or the Commonwealth for any violation by the City of the CWA, the Massachusetts Act, and associated regulations or permit conditions other than those claims alleged in the Complaints through the Date of Lodging. This Consent Decree does not limit any rights or remedies available to the United States or the Commonwealth for any criminal violations. The United States and the Commonwealth expressly reserve all rights and remedies, legal and equitable, available to each of them for all violations of the CWA, the Massachusetts Act, or other applicable law where such violations are not alleged in their respective Complaints, and reserve all rights and remedies, legal and equitable, available to enforce the provisions of this Consent Decree. Nothing herein shall be construed to limit the power of the United States or the Commonwealth, consistent with their respective authorities, to undertake any action against any person, in response to conditions which may present an imminent and substantial endangerment to the public's health or welfare, or the environment.

108. In any subsequent administrative or judicial proceeding initiated by the United States or the Commonwealth for injunctive relief, civil penalties, or other appropriate relief relating to the City's Sewer System, or the City's violations of federal or Commonwealth law, the City shall not assert, and may not maintain, any defense or claim based upon the principles of waiver, res judicata, collateral estoppel, issue preclusion, claim preclusion, claim-splitting, or other defenses based upon any contention that the claims raised by the United States or the Commonwealth in the subsequent proceeding were or should have been brought in the instant case, except with respect to claims that have been specifically resolved pursuant to Paragraph 105 of this Section.

109. This Consent Decree does not resolve any claims for contingent liability under Section 309(e) of the Clean Water Act, 33 U.S.C. § 1319(e). The United States specifically reserves any such claims against the Commonwealth, and the Commonwealth specifically reserves all defenses to any such claims.

110. This Consent Decree does not limit or affect the rights of the City, the United States, or the Commonwealth against any third parties, not party to this Consent Decree, nor does it limit the rights of third parties, not party to this Consent Decree, against the City, except as otherwise provided by law.

111. This Consent Decree shall not be construed to create rights in, or grant any cause of action to, any third party not party to this Consent Decree

XVII. COSTS

112. Each Party shall bear its own expenses, costs and attorney's fees in this action. The City shall be responsible for all documented expenses, costs and attorney's fees incurred by the United States and the Commonwealth in collecting any penalties due and payable under Sections VI (Civil Penalty) and XI (Stipulated Penalties) of this Consent Decree. In no event shall the United States or the Commonwealth be responsible for any expenses, costs or attorney's fees incurred by the City.

XVIII. EFFECTIVE DATE

113. The Effective Date of this Consent Decree shall be the date upon which this Consent Decree is entered by the Court or a motion to enter the Consent Decree is granted, whichever occurs first, as recorded on the Court's docket; provided, however, that the City hereby agrees that it shall be bound to perform duties scheduled to occur prior to the Effective Date. In the

event the United States withdraws or withholds consent to this Consent Decree before entry, or the Court declines to enter the Consent Decree, then the preceding requirement to perform duties scheduled to occur before the Effective Date shall terminate.

XIX. RETENTION OF JURISDICTION

114. The Court shall retain jurisdiction to modify and enforce the terms and conditions of this Consent Decree and to resolve disputes arising hereunder as may be necessary or appropriate for the construction or execution of this Consent Decree and to assess any stipulated penalties that may have accrued during the term of the Consent Decree.

XX. MODIFICATION

115. The terms of this Consent Decree, including any attachments, may be modified only by a subsequent written agreement signed by all the Parties, except that, without otherwise altering the obligations of the Consent Decree, (a) the Parties may by written agreement modify the schedules specified in this Consent Decree, and (b) EPA and the MassDEP may approve submissions upon specified conditions. Any other modification to the terms of this Consent Decree shall be effective only upon approval of the Court. Any disputes concerning modification of this Consent Decree shall be resolved pursuant to Section XIII (Dispute Resolution), provided, however, that, instead of the burden of proof provided by Paragraph 97, the Party seeking the modification bears the burden of demonstrating that it is entitled to the requested modification in accordance with Federal Rule of Civil Procedure 60(b).

XXI. FUNDING

116. Performance of the terms of this Consent Decree by the City is not conditioned on the receipt of any Federal or State grant funds or loans. In addition, performance is not excused by the lack of any Federal or State grant funds or loans.

XXII. SEVERABILITY PROVISION

117. The provisions of this Consent Decree shall be severable, and should any provisions be declared by a court of competent jurisdiction to be unenforceable, the remaining provisions shall remain in full force and effect.

XXIII. TERMINATION

118. After the City has paid all outstanding penalties, and has completed all remedial measures and reports required under Sections VII and VIII of this Consent Decree, the City may serve upon the United States and the Commonwealth a Request for Termination, stating that the City has satisfied those requirements, together with all applicable supporting documentation.

119. Following receipt by the United States and the Commonwealth of the City's Request for Termination, the Parties shall confer informally concerning the Request and any disagreement that the Parties may have as to whether the City has satisfied the requirements for termination of this Consent Decree. If the United States and the Commonwealth agree that this Consent Decree may be terminated, the Parties shall submit, for the Court's approval, a joint stipulation terminating the Consent Decree.

120. If the United States and the Commonwealth do not agree that the City has paid all outstanding penalties and completed all remedial measures required under Section VII, and therefore, that this Consent Decree may be terminated, the City may invoke dispute resolution

under Section XIII (Dispute Resolution). However, the City shall not seek dispute resolution of any dispute regarding termination until sixty (60) Days after service of its Request for Termination.

XXIV. FINAL JUDGMENT

121. Entry of this Consent Decree constitutes Final Judgment under Rule 54 of the Federal Rules of Civil Procedure.

XXV. WAIVER OF SERVICE OF SUMMONS AND COMPLAINT

122. The City hereby acknowledges receipt of the Complaints and waives service of the summonses pursuant to Rule 4 of the Federal Rules of Civil Procedure.

XXVI. PUBLIC COMMENT

123. The City consents to the entry of this Consent Decree without further notice. Final approval of this Consent Decree is subject to the public notice requirements of 28 C.F.R.§ 50.7. After reviewing the public comments, if any, the United States shall advise the Court by motion whether it supports entry of the Consent Decree.

Judgment is hereby entered in accordance with the foregoing Consent Decree this _____ day of _____ .

_____

UNITED STATES DISTRICT JUDGE

The following parties hereby consent to the entry of this Consent Decree:

For Plaintiff UNITED STATES OF AMERICA

_____ _____

Ignacia S. Moreno DATE
Assistant Attorney General
Environment & Natural Resources Division
United States Department of Justice

_____ _____

Brian Donohue DATE
Senior Attorney
Environmental Enforcement Section
Environment & Natural Resources Division
United States Department of Justice
P.O. Box 7611, Ben Franklin Station
Washington, D.C. 20044
(202) 514-

Carmen M. Ortiz
United States Attorney
District of Massachusetts

_____ _____

Anton P. Giedt DATE
Assistant U.S. Attorney
John J. Moakley Courthouse
1 Courthouse Way, Suite 9200
Boston, MA 02210
(627) 748-3309 (Voice)
(627) 748-3967 (Fax)
anton.giedt@usdoj.gov

For the UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

_____ _____

Cynthia Giles Date
Assistant Administrator
United States Environmental Protection Agency
1200 Pennsylvania Avenue, N.W.
Washington, D.C. 20460

_____ _____

Susan Studlien, Director Date
Office of Environmental Stewardship
United States Environmental Protection Agency,
Region I
One Congress Street
Boston, MA 02114

For the COMMONWEALTH OF MASSACHUSETTS

Martha Coakley
Attorney General
One Ashburton Place
Boston, MA 02108

_____ _____

Louis Dundin
Assistant Attorney General
Environmental Protection Division
Office of the Attorney General
One Ashburton Place
Boston, MA 02108
617-963-2433

For Defendant City of Fitchburg, MASSACHUSETTS

_____ _____

Date

APPENDIX C

NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
01/01/2015	8.49	13.52	5.86	0.00	0.593	0.000	3,748				7.60	523	505	37,032	35,757		7.40	2.0	99	89	108	7,010	7,647		
01/02/2015	8.57	13.28	6.17	0.00	0.609	0.000	37,016				7.80	420	577	30,019	41,240		7.50	2.5	119	108	140	8,505	10,006		
01/03/2015	7.79	14.54	6.43	0.40	0.620	0.000					7.80	491	550	31,900	35,733		7.50	10.5	233	200	210	15,138	13,643		
01/04/2015	12.80	19.20	8.92	0.20	0.528	0.015					7.66	180	318	19,215	33,947		7.47	7.0	159	126	134	16,974	14,305		
01/05/2015	11.66	15.54	8.28	0.00	0.522	0.000	35,074				7.58	231	590	22,463	57,374		7.53	10.0	188	148	147	18,282	14,295		
01/06/2015	10.35	15.41	8.01	0.10	0.529	0.000	42,621				7.67	360	568	31,075	49,029		7.47	8.0	187	163	197	16,142	17,005		
01/07/2015	8.07	14.22	7.73	0.10	0.553	0.000	11,859				7.70	438	542	29,479	36,479		7.54	3.5	108	91	123	7,269	8,278		
01/08/2015	8.97	13.26	6.52	0.10	0.530	0.000	9,989				7.77	462	550	34,562	41,145		7.52	4.5	122	107	158	9,127	11,820		
01/09/2015	8.60	13.10	5.44	0.00	0.562	0.000	9,901				7.70	438	735	31,415	52,717		7.35	3.0	130		131	9,324	9,396		
01/10/2015	7.60	12.53	5.28	0.00	0.565	0.000	157				7.64	96	106	6,085	6,719		7.39	4.0	100		204	6,338	12,930		
01/11/2015	7.53	12.64	5.15	0.10	0.544	0.000					7.73	390	746	24,492	46,849		7.64	5.5	145	121	171	9,106	10,739		
01/12/2015	8.74	14.08	6.15	0.10	0.463	0.000	14,950				7.69	360	808	26,241	58,896		7.54	7.5	156	123	204	11,371	14,870		
01/13/2015	8.49	13.23	0.00	0.00	0.461	0.000	17,315				7.71	405	892	28,677	63,159		7.57	4.0	121	92	170	8,568	12,037		
01/14/2015	8.42	13.32	6.02	0.00	0.466	0.000	8,636				7.64	435	1050	30,547	73,734		7.48	2.5	128	106	153	8,989	10,744		
01/15/2015	8.25	12.59	6.07	0.00	0.494	0.000	11,919				7.74	444	782	30,549	53,806		7.65	1.5	110	96	114	7,569	7,844		
01/16/2015	8.01	12.27	5.22	0.00	0.445	0.000	11,254				7.89	146	830	9,753	55,447		7.54	3.5	115		117	7,682	7,816		
01/17/2015	7.24	12.50	5.03	0.00	0.480	0.000					7.83	177	842	10,688	50,841		7.54	3.0	117		119	7,065	7,185		
01/18/2015	11.70	36.63	5.08	1.30	0.464	3.665					7.88	72	640	7,026	62,450		7.48	5.5	128	91	69	12,490	6,733		
01/19/2015	19.16	21.43	13.91	0.00	0.453	2.497					7.90	143	299	22,851	47,779		7.68	2.0	96	82	63	15,340	10,067		
01/20/2015	16.60	19.63	13.49	0.00	0.469	1.658					7.82	176	278	24,366	38,487		7.60	4.0	102	75	74	14,121	10,245		
01/21/2015	15.50	19.17	11.97	0.00	0.455	1.006	5,266				7.57	167	239	21,588	30,896		7.41	3.5	89	73	93	11,505	12,022		
01/22/2015	15.17	18.91	12.54	0.00	0.722	0.021	19,706				7.82	158	265	19,990	33,527		7.56	3.5	113	91	87	14,297	11,007		
01/23/2015	14.77	18.42	7.08	0.10	0.723	0.000	25,640				7.86	39	370	4,804	45,577		7.50	1.8	80	57	45	9,855	5,543		
01/24/2015	14.61	19.11	11.13		0.449	0.000					7.81	48	152	5,849	18,521		7.60	0.6	53	31	54	6,458	6,580		
01/25/2015	13.40	18.26	11.14	0.00	0.451	0.000	11,802				7.91	129	224	14,417	25,033		7.69	0.5	50	26	60	5,588	6,705		
01/26/2015	12.39	17.36	9.76	1.20	0.452	0.000					7.78	90	118	9,300	12,193		7.49	0.5	77	54	78	7,957	8,060		
01/27/2015	10.84	19.29	11.85	1.10	0.456	0.299					7.87	110	126	9,945	11,391		7.70	1.5	47	37	54	4,249	4,882		
01/28/2015	14.72	18.69	12.05	0.00	0.458	0.003					7.73	180	261	22,098	32,042		7.54	1.2	100	76	102	12,276	12,522		
01/29/2015	14.77	17.75		0.10	0.468	0.000	3,552				7.71	179	213	22,050	26,238		7.60	0.5	95	66	89	11,702	10,963		
01/30/2015	14.80	18.28	11.94	0.00	0.532	0.000					7.73	90	121	11,109	14,935		7.65	0.5	73	54	60	9,011	7,406		
01/31/2015	14.23	18.26	10.99	0.00	0.484	0.000					7.74	120	208	14,241	24,685		7.60	0.5	75	48	51	8,901	6,053		
MMAVG	8.81																								
Min.	7.2	12.3	0.0	0.0		0.000	157				7.57	39	106	4,804	6,719		7.35	0.5	47	26	45	4249	4882		
Max.	19.2	36.6	13.9	1.3		3.665	42,621				7.91	523	1050	37,032	73,734		7.70	10.5	233	200	210	18282	17005		
Total	352.2	516.4	245.2	4.9		9.164	280,405																		
Average	11.4	16.7	8.2	0.2		0.296	15,578				7.75	248	468	20769	39246		7.54	3.5	113	90	115	10265	9979		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
01/01/2015	6.73	0.1	3.2	3.2	4.7	227	333	1			2.0	<0.01	<0.01	<0.01							99.101	99.366	7.40	2.6	4.8		7.10	5.8	9.6	9.6					
01/02/2015	6.80	<0.10	3.6	3.6	4.7	257	336	2			1.0	<0.01	<0.01	<0.01							98.881	99.376	7.40	2.8	3.6		7.20	6.1	10.2	9.6					
01/03/2015	7.00	<0.10	4.0	3.4	3.9	260	253	0	0.0		1.5	<0.01	<0.01	<0.01							99.206	99.273	7.50	2	3.6		7.20	5.5	9.6	7.0					
01/04/2015	6.80	<0.10	75.8	57.8	108.0	8,092	11,529	1			1.0	<0.01	<0.01	<0.01							40.000	76.164	7.47	2	8.4		7.03	177.0	807.0	618.0					
01/05/2015	6.87	0.2	9.0	6.2	6.3	875	613	8			5.0	<0.01	<0.01	<0.01							97.273	98.475	7.58	2	7.8		7.12	9.6	14.0	9.4					
01/06/2015	6.85	<0.10	7.6	4.4	3.6	656	311	7			2.3	<0.01	<0.01	<0.01		0.35	30	0.21	18	0.02	99.000	98.662	7.55	2	5.8		7.11	5.5	12.4	9.2					
01/07/2015	6.77	<0.10	7.0	5.2	4.5	471	303	7			3.2	<0.01	<0.01	<0.01							98.973	98.708	7.45	5.7	9.8		7.26	5.3	14.6	10.8					
01/08/2015	6.78	<0.10	10.6	5.6	7.4	793	554	3			3.4	<0.01	<0.01	<0.01							98.398	98.073	7.61	6.1	6.8		7.42	6.4	13.2	10.6	43	52	0.53	23	<0.20
01/09/2015	7.06	<0.10	7.4		4.2	531	301	13			3.9	<0.01	<0.01	<0.01							99.041	98.993	7.43	2.6	9.8		7.05	5.9	15.4						
01/10/2015	6.95	0.1	7.6		4.0	482	254	0			2.9	<0.01	<0.01	<0.01							95.833	92.830	7.55	2	8.8		7.54	2.8	8.4						
01/11/2015	6.94	0.1	6.4	4.4	3.7	402	232	1			2.4	<0.01	<0.01	<0.01							99.051	99.142	7.65	2	6.6		7.25	3.8	10.4	7.2					
01/12/2015	7.02	<0.10	9.2	4.6	3.6	671	262	1			2.7	<0.01	<0.01	<0.01							99.000	98.861	7.44	2	5.4		7.16	3.1	11.4	6.4					
01/13/2015	6.95	<0.10	6.8	4.0	3.3	481	234	9			3.2	<0.01	<0.01	<0.01		0.38	27	0.14	10	0.03	99.185	99.238	7.39	2.3	6.2		7.04	4.1	14.2	11.6					
01/14/2015	6.82	0.1	7.0	4.2	3.6	492	253	12			2.6	<0.01	<0.01	<0.01							99.172	99.333	7.45	2.1	5.4		7.15	4.5	17.0	12.6					
01/15/2015	6.87	<0.10	8.0	4.2	5.0	550	344	11			2.9	<0.01	<0.01	<0.01							98.874	98.977	7.51	2	5.0		7.19	5.2	12.8	8.8					
01/16/2015	6.91	<0.10	5.6		2.5	374	167	4			2.3	<0.01	<0.01	0.01							98.288	99.325	7.37	2	17.8		6.96	2.4	9.2						
01/17/2015	6.95	0	8.2		2.6	495	157	4	10.0	7.9	1.8	<0.01	<0.01	<0.01							98.531	99.026	7.46	2	7.0		7.10	3.0	12.8						
01/18/2015	7.05	0	68.6	46.4	27.0	6,694	2,635	0			1.8	<0.01	<0.01	<0.01							62.500	89.281	7.45	2	7.0		7.03	2.3	10.2	4.4					
01/19/2015	7.05	3	124.0	90.0	57.6	19,815	9,204	360			39.1	<0.01	<0.01	<0.01		2.46	393	1.88	300	0.09	59.720	58.528	7.55	3.3	8.8		7.21	126.0	445.0	338.0					
01/20/2015	6.95	18	35.0	24.8	24.6	4,846	3,406	240			107.0	<0.01	<0.01	<0.01							86.023	87.410	7.48	2	6.6		7.21	10.2	30.2	22.2					
01/21/2015	6.89	1.2	22.8	17.2	17.7	2,947	2,288	860			14.3	<0.01	<0.01	<0.01							89.401	90.460	7.31	2.3	6.0		7.15	4.7	20.4	18.2					
01/22/2015	6.69	<0.10	9.8	6.2	5.9	1,240	746	21			3.6	<0.01	<0.01	<0.01							96.266	96.302	7.33	2.1	5.0		7.17	9.6	12.0	8.2					
01/23/2015	6.83	<0.10			6.1		751	10			3.4	<0.01	<0.01	<0.01							84.359		7.26	2.5	5.4		7.18	13.2	13.1	9.7					
01/24/2015	6.83	<0.10	7.7	5.5	5.4	938	658	0	6.4	9.2	2.3	<0.01	<0.01	<0.01							88.750	94.934	7.28	2	3.9		7.11	12.3	15.6	11.4					
01/25/2015	6.80	<0.10	12.8	8.2	6.6	1,430	738	0	6.0	9.7	2.5		<0.01	<0.01							94.884	94.286	7.38	2	5.8		7.40	16.7	27.8	20.0					
01/26/2015	6.97	<0.00	21.8	14.6	13.5	2,253	1,395	6	1.0		2.8	<0.01	<0.01	<0.01							85.000	81.525	7.18	3.8	7.0		7.13	34.5	58.2	42.4					
01/27/2015	6.88	<0.10	64.0	55.0	39.9	5,786	3,607	7			3.1	<0.01	<0.01	<0.01		1.71	155	1.4	127	0.06	63.727	49.206	7.26	3.9	8.8		7.20	141.0	478.0	351.0					
01/28/2015	6.73	1.5	84.0	48.0	26.4	10,312	3,241	0			10.0	<0.01	<0.01	<0.01							85.333	67.816	7.16	6.8	16.2		7.12	74.1	264.0	195.0					
01/29/2015	6.67	<0.10	10.2	7.8	8.4	1,256	1,035	9			3.4	<0.01	<0.01	<0.01							95.307	95.211	7.22	6.2	9.8		7.37	18.0	14.2	11.8					
01/30/2015	6.77	<0.10	14.2	10.0	7.5	1,753	926	7			3.1	<0.01	<0.01	<0.01							91.667	88.264	7.20	6.8	11.8		7.30	17.4	20.6	15.0					
01/31/2015	6.85	<0.10	58.8	44.8	23.4	6,978	2,777				3.5	<0.01	<0.01	<0.01							80.500	71.731	7.23	13.7	31.4		7.20	44.4	140.2	107.6					
MMAVG																			MMAVG		0.30													
Min.	6.7	<0.00	3	3	3	227	157	0	0.0	7.9	1			<0.01		0.35	27	0.14	10	0.02	40.00	49.21	7.2	2.0	3.6		7.0	2.3	8.4	4.4	43.0	52	0.53	23.0	<0.20
Max.	7.1	18	124	90	108	19815	11529	860	10.0	9.7	107			0.01		2.46	393	1.88	300	0.09	99.21	99.38	7.7	13.7	31.4		7.5	177.0	807.0	618.0	43.0	52	0.53	23.0	<0.20
Total																																			
Average	6.9	<0.85	24	19	14	2745	1608	6	4.7	8.9	8			<0.01		1.23	151	0.91	114	0.05	89.72	90.63	7.4	3.3	8.3		7.2	25.2	82.3	69.8	43.0	52	0.53	23.0	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION															
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
01/01/2015	8,670	7,710	6,350	5,720	10,230	9,250	10.00	10.00	2,275,200	3,110,400	60,558	53,852					58	62	5,790	6,020	4,410	4,690	12,570	12,700	8.30	8.80	2,203,200	2,188,800	59,757	62,131					69	88
01/02/2015	7,190	7,720	5,190	5,570	7,980	10,820	10.00	10.00	2,390,400	3,024,000	50,220	53,922	2,003	30,091	2,745	30,422	70	71	5,930	6,460	4,320	5,180	12,460	11,940	8.09	8.74	2,080,800	2,047,680	61,202	66,672	3,098	29,810	2,965	29,772	76	94
01/03/2015	6,360	8,330	4,680	6,130	11,740	11,310	10.00	10.00	2,390,400	3,067,200	44,423	58,183					85	77	6,270	6,900	4,690	5,400	14,200	15,040	7.99	8.96	2,232,000	2,260,800	86,694	71,213					104	113
01/04/2015	5,420	8,700	3,940	6,460	5,920	12,410	10.00	10.00	2,448,000	3,052,800	37,857	60,767	842	17,055	1,719	16,610	59	69	5,570	5,420	4,240	4,220	13,110	12,310	7.50	7.90	2,203,200	2,246,400	57,487	55,938	1,837	16,798	1,725	16,806	75	89
01/05/2015	4,610	5,960	3,440	3,800	12,450	9,120	10.00	10.00	2,448,000	3,096,000	32,200	41,629	3,147	30,307	2,273	29,882	69	102	4,780	4,250	3,730	3,370	12,670	11,130	7.89	8.29	2,232,000	2,260,800	49,333	43,863	3,170	30,000	2,762	29,757	71	82
01/06/2015	4,400	9,440	3,320	7,090	5,420	12,050	10.00	10.00	2,332,800	3,124,800	30,733	65,936	1,514	29,948	3,042	30,191	77	78	4,880	4,830	3,760	3,950	12,960	11,320	8.99	10.00	2,131,200	2,246,400	50,365	49,849	3,068	30,064	3,018	29,797	96	112
01/07/2015	4,130	4,700	3,150	3,580	12,570	9,510	10.00	10.00	2,433,600	3,124,800	28,847	32,828			2,380	30,013	73	132	5,360	5,600	4,240	4,530	13,160	12,210	10.00	8.65	1,900,800	2,203,200	55,319	57,796	3,279	29,886	2,941	29,962	73	84
01/08/2015	3,920	8,120	2,950	5,960	7,350	11,940	10.00	10.00	2,419,200	3,096,000	27,380	56,716			2,968	29,801	66	85	3,710	7,010	2,870	5,530	14,010	8,420	10.00	10.00	1,810,080	2,289,600	38,290	72,348	3,240	29,535	2,448	29,667	35	37
01/09/2015	4,600	8,140	3,530	6,070	8,030	12,360	10.00	10.00	2,620,800	3,168,000	32,130	56,856			3,206	31,103	61	71	6,420	6,600	4,980	5,220	12,470	9,570	8.46	10.00	1,944,000	2,347,200	66,259	68,117	3,400	31,264	2,564	31,276	97	94
01/10/2015	4,180	8,330	3,920	6,060	8,320	12,100	10.00	10.00	2,520,000	3,024,000	29,196	58,183					86	88	6,980	6,510	5,250	4,960	8,610	12,780	10.00	8.51	2,174,400	2,304,000	72,039	67,188					109	115
01/11/2015	5,760	8,320	4,420	6,070	8,220	12,420	10.00	10.00	2,491,200	3,052,800	40,232	58,113	1,162	16,848	1,728	16,897	71	93	4,740	6,100	3,590	4,690	8,070	7,330	10.00	9.45	1,872,000	2,260,800	48,920	62,957	1,136	16,874	1,022	16,718	146	69
01/12/2015	5,520	8,400	4,260	6,190	9,030	12,020	9.40	10.00	2,491,200	3,081,600	38,556	58,672			0	0	60	60	6,890	5,540	5,290	4,400	12,920	7,330	7.80	10.00	1,944,000	2,304,000	71,110	57,177	1,521	22,601	2,159	35,310	67	72
01/13/2015	6,110	8,450	4,710	6,270	10,110	13,170	9.90	10.00	2,505,600	2,793,600	42,677	59,021			6,976	63,511	82	95	6,710	5,480	5,150	4,200	12,940	7,350	8.60	10.00	1,958,400	2,332,800	69,252	56,558	4,540	42,069	1,054	17,192	119	133
01/14/2015	5,980	8,010	4,710	6,120	10,890	12,430	9.80	10.00	2,476,800	2,865,600	41,769	55,948			5,490	63,112	67	71	6,490	5,320	5,120	4,220	13,160	8,070	10.00	8.70	1,843,200	2,318,400	66,982	54,906	4,623	42,587	1,180	16,892	92	85
01/15/2015	6,300	7,680	4,930	5,840	10,820	12,300	9.46	10.00	2,419,200	2,880,000	44,004	53,643	2,678	29,681	3,106	30,282	54	98	6,790	5,070	6,360	3,940	13,080	7,220	10.00	8.35	1,915,200	2,232,000	70,078	52,326	4,578	41,967	1,014	16,836	113	118
01/16/2015	5,970	7,760	4,690	5,900	10,850	12,290	9.10	9.60	2,404,800	2,880,000	41,699	54,202	2,771	29,801	3,096	29,911	85	97	6,810	4,720	5,280	3,710	12,580	6,600	10.00	8.00	2,059,200	2,246,400	70,284	48,714	1,766	16,833	0	0	116	106
01/17/2015	6,710	7,770	5,200	5,880	10,520	11,780	9.48	9.99	2,361,600	2,894,400	46,868	54,272					66	76	6,970	4,760	5,280	3,650	12,960	6,250	8.43	10.00	2,160,000	2,318,400	71,936	49,127					89	80
01/18/2015	7,060	8,040	5,530	6,030	10,120	11,760	9.17	9.20	2,404,800	2,865,600	49,312	56,157	1,431	16,628	1,608	16,386	74	81	7,120	4,500	5,450	3,480	13,350	5,480	7.87	10.00	2,088,000	2,304,000	73,484	46,443	1,873	16,824			104	91
01/19/2015	5,660	7,610	4,060	5,270	11,050	11,340	10.00	10.00	2,448,000	3,038,400	39,534	53,154	2,631	29,802	2,832	29,399	62	79	5,030	3,820	3,140	3,160	13,230	8,200	10.00	9.84	2,016,000	2,260,800	51,913	39,425	3,317	30,066			84	89
01/20/2015	5,240	7,200	4,050	5,400	11,180	11,940	10.00	10.00	1,654,560	1,837,440	36,600	50,290	2,777	29,939	2,970	29,888	86	106	4,960	3,720	3,910	2,930	12,570	9,000	10.00	10.00	2,174,400	1,837,440	51,191	38,393	4,417	42,134			111	89
01/21/2015	5,570	7,910	4,420	6,170	11,540	11,180	10.00	10.00	2,347,200	2,908,800	38,905	55,249	2,906	30,047	2,864	30,280	65	75	4,630	4,680	3,620	3,730	11,970	11,560	10.00	10.00	2,203,200	2,260,800	47,785	48,301	3,001	30,058	2,890	29,980	67	77
01/22/2015	5,600	7,110	4,380	5,620	11,410	11,180	10.00	10.00	2,534,400	2,851,200	39,115	49,662	2,807	30,244	2,788	29,998	66	82	5,070	4,660	3,670	3,610	12,420	10,880	10.00	10.00	2,088,000	2,419,200	52,326	48,095	3,070	29,640	2,685	29,590	75	71
01/23/2015	6,060	7,580	4,830	5,860	12,290	11,740	10.00	10.00	2,404,800	2,880,000	42,328	52,944	2,875	30,214	2,800	30,029	55	95	4,480	4,610	3,410	3,710	12,290	11,030	10.00	10.00	2,188,800	2,462,400	46,237	47,579	2,485	23,995	2,486	24,000	80	87
01/24/2015	6,070	7,460	4,790	5,700	13,140	14,570	10.00	10.00	2,030,400	2,404,800	42,397	52,106					76	94	4,890	8,170	3,810	6,390	13,410	10,960	10.00	10.00	2,462,400	2,880,000	50,468	84,321					74	50
01/25/2015	6,410	7,100	5,000	5,350	13,400	13,870	10.00	10.00	2,361,600	2,952,000	44,772	49,592	1,835	16,419	1,901	16,436	64	100	4,790	4,980	3,760	3,920	13,520	11,100	10.00	10.00	2,160,000	2,448,000	49,436	51,397	1,891	16,770	1,554	16,788	79	90
01/26/2015	5,450	6,870	4,330	5,290	11,190	10,640	10.00	10.00	2,390,400	2,851,200	38,067	47,985	3,059	29,832	3,076	30,100	90	105	4,160	4,490	3,380	3,700	10,730	10,250	10.00	10.00	2,232,000	2,462,400	42,934	46,340	2,681	29,960	2,565	30,001	108	120
01/27/2015	5,610	7,000	4,330	5,330	11,150	11,430	10.00	10.00	2,361,600	2,361,600	39,184	48,893					91	110	4,160	4,430	3,200	3,490	10,970	10,550	10.00	10.00	2,016,000	2,448,000	42,934	45,721					96	138
01/28/2015	5,630	6,550	4,440	4,970	10,860	10,520	10.00	10.00	2,448,000	2,880,000	39,324	45,750	2,039	22,508	1,961	22,352	84	107	4,250	4,780	3,270	3,710	10,870	10,040	10.00	10.00	2,174,400	2,448,000	43,863	49,333	2,723	30,040	2,518	30,072	92	88
01/29/2015	5,540	6,620	4,300	4,950	10,820	10,370	10.00	10.00	2,462,400	2,836,800	38,696	46,239	1,540	17,126	1,482	17,075	79	97	4,170	10,180	3,090	7,760	11,570	10,830	10.00	10.00	1,886,400	2,462,400	43,038	105,065	1,572	17,204	1,501	17,355	84	42
01/30/2015	5,640	6,050	4,410	4,000	10,600	10,870	10.00	10.00	2,592,000	3,024,000	39,394	42,258	2,126	24,051	2,200	24,268	82	114	4,360	4,490	3,290	3,450	10,130	10,810	10.00	10.00	1,972,800	2,491,200	44,998	46,340	2,029	24,012	2,160	23,964	87	102
01/31/2015	5,980	5,380	4,640	4,270	11,270	10,120	10.00	10.00	2,433,600	2,952,000	41,769	37,578	1,589	16,901	1,421	16,841	67	74	4,170	4,420	3,180	3,440	10,760	10,490	10.00	10.00	2,088,000	2,419,200	43,038	45,618	1,510	16,829	1,460	16,687	79	91
MMAVG																																				
Min.	3,920	4,700	2,950	3,580	5,420	9,120	9	9	1,654,560	1,837,440	27,380	32,828	842	16,419	0	0	54	60	3,710	3,720	2,870	2,930	8,070	5,480	8	8	1,810,080	1,837,440	38,290	38,393	1,136	16,770	0	0	35	37
Max.	8,670	9,440	6,350	7,090	13,400	14,570	10	10	2,620,800	3,168,000	60,558	65,936	3,147	30,307	6,976	63,511	91	132	7,120	10,180	6,360	7,760	14,200	15,040	10	10	2,462,400	2,880,000	73,484	105,065	4,623	42,587	3,018	35,310	146	138
Total									74,302,560	89,979,840	1,238,746	1,620,600	41,732	477,442	66,632	694,787											64,414,080	72,011,520	1,726,969	1,739,251	69,825	687,820	44,671	518,422		
Average	5,721	7,485	4,416	5,578	10,338	11,575	10	10	2,396,857	2,902,575	39,960	52,277	2,196	25,129	2,665	27,791	72	88	5,398	5,436	4,153	4,269	12,249	9,960	9	9	2,077,874	2,322,952	55,709	56,105	2,793	27,513	2,031	23,565	89	90

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
02/01/2015	13.86	18.28	11.81	0.50	0.408	0.000					7.77	146	201	16,876	23,234		7.68	0.5	57	38	87	6,589	10,057		
02/02/2015	14.57	18.78	12.38	0.70	0.505	0.000											7.45	0.2	44	24	65	5,347	7,898		
02/03/2015	14.61	18.62	12.81	0.00	0.455	0.000	5,897				6.98	140	174	17,059	21,201		7.30	0.5	82	67	92	9,991	11,210		
02/04/2015	15.27	18.61	12.53	0.50	0.596	0.024	1,046				7.31	182	262	23,178	33,366		7.22	0.6	85	64	60	10,825	7,641		
02/05/2015	15.19	18.16	12.42	0.20	0.563	0.000	2,335				7.79	170	253	21,536	32,051		7.65	1.0	86	67	81	10,895	10,261		
02/06/2015	14.67	18.03	11.27	0.00	0.465	0.000	8,898				7.50	168	242	20,554	29,608		7.60	1.6	123	89	102	15,049	12,479		
02/07/2015	14.08	17.89	11.75	0.00	0.489	0.000	11,151				7.80	134	196	15,735	23,016		7.80	2.2	128	85	99	15,031	11,625		
02/08/2015	13.85	17.87	11.74	0.60	0.454	0.000					7.83	131	168	15,132	19,406		7.77	0.6	65	48	6	7,508	693		
02/09/2015	14.33	18.66	11.91	0.40	0.441	0.000					7.76	113	197	13,505	23,544		7.58	0.2	47	36	42	5,617	5,020		
02/10/2015	14.80	18.79	12.58	0.00	0.468	0.000	7,818				7.68	168	251	20,737	30,981		7.49	1.0	82	58	87	10,121	10,739		
02/11/2015	14.55	18.25	11.90	0.00	0.467	0.000	34,613				7.74	374	492	45,384	59,703		7.58	0.2	161	139	51	19,537	6,189		
02/12/2015	14.35	18.36	12.63	0.00	0.446	0.000	7,882				7.77	150	304	17,952	36,382		7.63	0.1	44	34	57	5,266	6,822		
02/13/2015	13.98	17.72	11.04	0.00	0.407	0.000	13,190				7.53	167	255	19,471	29,731		7.32	1.0	66		69	7,695	8,045		
02/14/2015	13.09	17.10	11.59	0.60	0.420	0.000	7,586				7.59	66	154	7,205	16,812		7.43	1.0	63		33	6,878	3,603		
02/15/2015	13.68	17.99	10.69	0.00	0.386	0.000					7.70	125	161	14,261	18,369		7.57	0.8	64		60	7,302	6,845		
02/16/2015	14.09	18.25	11.79	0.00	0.401	0.000	4,818				7.67	167	313	19,624	36,781		7.58	1.5	80	56	84	9,401	9,871		
02/17/2015	13.97	19.56	13.02	0.00	0.482	0.102	3,664				7.70	234	288	27,263	33,555		7.52	2.5	114	100	125	13,282	14,564		
02/18/2015	14.09	19.95	12.13	0.10	0.422	0.255	1,861				7.60	203	234	23,855	27,497		7.42	22.0	329	273	195	38,661	22,915		
02/19/2015	14.26	19.95	12.05	0.10	0.468	1.096	5,678				7.41	189	242	22,477	28,781		7.30	18.0	224	185	165	26,640	19,623		
02/20/2015	12.88	18.90	11.99	0.00	0.447	1.721					7.65	60	432	6,445	46,405		7.46		329		63	35,341	6,767		
02/21/2015	11.86	18.58	10.73	0.00	0.428	0.043	10,584				7.80	48	307	4,748	30,366		7.62	10.0	140		54	13,848	5,341		
02/22/2015	13.88	25.61	11.75	0.00	0.433	1.453	3,547				7.86	162	208	18,753	24,078		7.73	14.0	235	172	122	27,203	14,123		
02/23/2015	13.75	18.72	12.51	0.00	0.406	1.453					7.81	179	238	20,527	27,293		7.36	60.0	893	700	356	102,405	40,824		
02/24/2015	12.29	18.75	10.79	0.00	0.484	0.184	24,060				7.63	182	226	18,655	23,165		7.43	16.0	306	243	186	31,365	19,065		
02/25/2015	13.80	20.21	11.42	0.00	0.519	0.049					7.62	192	232	22,098	26,701		7.33	25.0	343	284	206	39,477	23,709		
02/26/2015	10.06	20.25	4.17	0.00	0.546	1.303					7.64	276	421	23,157	35,322		7.54	7.0	212	180	189	17,787	15,857		
02/27/2015	5.50	20.21	4.17	0.00	0.440	0.000	6,958				7.40	405	386	18,577	17,706		7.30	6.0	206	168	249	9,449	11,422		
02/28/2015	6.07	10.66	4.54	0.00	0.445	0.000	2,307				7.45	281	356	14,225	18,022		7.62	6.0	196	142	185	9,922	9,365		
MMAVG	9.34																								
Min.	5.5	10.7	4.2	0.0		0.000	1,046				6.98	48	154	4,748	16,812		7.22	0.1	44	24	6	5266	693		
Max.	15.3	25.6	13.0	0.7		1.721	34,613				7.86	405	492	45,384	59,703		7.80	60.0	893	700	356	102405	40824		
Total	371.4	522.7	310.1	3.7		7.683	163,893																		
Average	13.3	18.7	11.1	0.1		0.274	8,626				7.63	178	266	18851	28632		7.51	7.4	172	141	113	18515	11878		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
02/01/2015	6.92	<0.10	21.8	15.8	12.8	2,520	1,480	7			7.0	<0.01	<0.01	<0.01							91.233	89.154	7.32	6.4	24.4		7.27	26.4	49.2	36.0					
02/02/2015	6.87	0.1	174.0	126.0	53.1	21,143	6,452	6			4.2	<0.01	<0.01	<0.01									7.05	18.8	70.0		7.03	114.0	402.0	304.0					
02/03/2015	6.71	<0.10	21.0	11.6	13.5	2,559	1,645	0			6.6	<0.01	<0.01	<0.01		0.47	57	1.85	225	0.03	90.357	87.931	7.04	7.4	25.0		7.14	20.5	23.0	15.6					
02/04/2015	6.66	<0.10	43.0	31.6	19.5	5,476	2,483	0			6.5	<0.01	<0.01	<0.01							89.286	83.588	7.00	4.6	8.8		7.05	37.8	85.4	65.6	51	230	1.7	25	<0.20
02/05/2015	6.56	<0.10	11.2	7.2	6.9	1,419	874	2			4.0	<0.01	<0.01	<0.01							95.941	95.573	7.21	6.3	7.2		7.19	16.4	13.6	9.8					
02/06/2015	6.93	<0.10	9.0	6.4	8.7	1,101	1,064	2			2.4	<0.01	<0.01	<0.01							94.821	96.281	7.30	7.1	10.4		7.20	10.2	14.2	10.0					
02/07/2015	7.10	<0.10	7.6	5.2	6.5	892	763	1			1.6	<0.01	<0.01	<0.01							95.149	96.122	7.30	5.1	9.6		7.40	6.9	12.2	8.6					
02/08/2015	7.00	<0.10	7.8	5.0	6.4	901	739	1			1.4	<0.01	<0.01	<0.01							95.115	95.357	7.34	3.9	6.6		7.38	9.6	6.6	5.4					
02/09/2015	6.94	<0.10	60.6	45.4	28.2	7,242	3,370	4			2.2	<0.01	<0.01	<0.01							75.044	69.239	7.08	3.2	9.6		7.12	65.7	156.0	126.0					
02/10/2015	6.75	<0.10	45.6	32.2	22.2	5,628	2,740	1			2.3	<0.01	<0.01	<0.01		0.84	104	2.1	259	0.04	86.786	81.833	7.09	5.4	7.0		7.14	50.1	121.0	89.0					
02/11/2015	6.62	<0.10	12.0	8.0	6.0	1,456	728	2			3.0	<0.01	<0.01	<0.01							98.396	97.561	7.18	8.1	12.2		7.28	8.4	10.2	9.2					
02/12/2015	6.70	<0.10	11.4	7.4	9.9	1,364	1,185	20			3.5	<0.01	<0.01	<0.01							93.400	96.250	7.25	9.6	8.6		7.36	14.1	8.4	7.0					
02/13/2015	6.92	<0.10	10.2		5.1	1,189	595	11			4.1	<0.01	<0.01	<0.01							96.946	96.000	7.03	5.1	9.2		7.16	6.8	8.2						
02/14/2015	6.73	<0.10	9.0		6.8	983	742	4			3.2	<0.01	<0.01	<0.01							89.697	94.156	7.07	3.1	11.2		7.26	8.3	8.0						
02/15/2015	6.80	<0.10	13.0		7.4	1,483	844	1			4.6	<0.01	<0.01	<0.01							94.080	91.925	7.00	3	9.8		7.21	11.5	13.2						
02/16/2015	6.69	<0.10	10.8	5.8	13.7	1,269	1,610	0			3.0	<0.01	<0.01	<0.01							91.796	96.550	7.36	6.9	10.8		7.52	20.4	12.0	7.0					
02/17/2015	7.02	0.1	71.0	54.2	20.6	8,272	2,400	28			4.4	<0.01	<0.01	<0.01		1.34	156	2.91	339	0.04	91.197	75.347													
02/18/2015	6.88	0.1	157.0	116.0	72.0	18,449	8,461	29			8.6	<0.01	<0.01	<0.01							64.532	32.906	7.25	57.6	145.0		7.33	82.8	219.0	177.0					
02/19/2015	6.90	0.1	148.0	125.0	81.6	17,601	9,705	330			13.9	<0.01	<0.01	<0.01							56.825	38.843	7.55	18	17.2		7.37	93.6	423.0	295.0					
02/20/2015	7.07	7	62.4		30.6	6,703	3,287	600			31.4	<0.01	<0.01	<0.01							49.000	85.556	7.38	9	18.2		7.25	14.4	21.2						
02/21/2015	7.05	0.03	23.6		11.9	2,334	1,177	10			6.8	<0.01	<0.01	<0.01							75.208	92.313	7.45	6.6	9.2		7.34	25.8	39.4						
02/22/2015	7.02	0.01	50.2	36.6	30.6	5,811	3,542	23			9.1	<0.01	<0.01	<0.01							81.111	75.865	7.58	7.8	9.2		7.54	36.6	46.4	36.8					
02/23/2015	7.32	6.5	366.0	282.0	162.0	41,971	18,577	1750			50.5	<0.01	<0.01	<0.01							9.497	-53.782	7.63	10.5	15.0		7.69	18.2	23.0	16.6					
02/24/2015	7.05	50	172.0	67.0	63.6	17,630	6,519	6900			263.0	<0.01	<0.01	<0.01		2.43	249	6.95	712	0.05	65.055	23.894	7.48	19.5	25.6		7.38	210.0	509.0	419.0					
02/25/2015	7.01	0.4	154.0	113.0	82.8	17,724	9,530	70			9.0	<0.01	<0.01	<0.01							56.875	33.621	7.51	20	23.8		7.52	30.0	34.8	28.4					
02/26/2015	6.82	23	54.2	43.2	31.2	4,547	2,618	2000			122.0	<0.01	<0.01								88.696	87.126	7.60	27	32.6		7.57	22.5	26.2	21.8					
02/27/2015	7.23	0.3	19.4	15.0	31.2	890	1,431	21			8.5	<0.01	<0.01	<0.01							92.296	94.974	7.60	27	21.0		7.40	35.4	18.0	14.8					
02/28/2015	7.20	<0.10	12.9	10.7	10.2	653	516	1			3.1	<0.01	<0.01	<0.01							96.370	96.376	7.64	9	4.1		7.55	15.9	19.0	15.4					
MMAVG													MMAVG		0.34																				
Min.	6.6	0.01	8	5	5	653	516	0			1			<0.01		0.47	57	1.85	225	0.03	9.50	-53.78	7.0	3.0	4.1		7.0	6.8	6.6	5.4	51.0	230	1.70	25.0	<0.20
Max.	7.3	50	366	282	162	41971	18577	6900			263			<0.01		2.43	249	6.95	712	0.05	98.40	97.56	7.6	57.6	145.0		7.7	210.0	509.0	419.0	51.0	230	1.70	25.0	<0.20
Total																																			
Average	6.9	<3.19	63	51	31	7115	3396	12			21			<0.01		1.27	142	3.45	384	0.04	81.66	75.95	7.3	11.7	20.8		7.3	37.5	86.0	78.1	51.0	230	1.70	25.0	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
02/01/2015	5,650	6,260	4,440	4,760	11,170	9,960	10.00	10.00	2,520,000	2,980,800	39,464	43,725	1,587	17,033	1,383	16,647	64	75	4,270	4,500	3,310	3,520	11,040	10,350	10.00	10.00	2,044,800	2,260,800	44,070	46,443	1,549	16,820	1,454	16,845	66	78
02/02/2015	5,340	5,960	4,220	4,540	12,040	12,770	10.00	10.00	2,433,600	2,937,600	37,299	41,629					77	87	4,100	4,290	3,240	3,410	9,870	10,860	10.00	10.00	2,203,200	2,318,400	42,315	44,276					83	100
02/03/2015	6,730	6,500	5,660	5,270	12,410	12,760	10.00	10.00	2,448,000	2,952,000	47,007	45,401	4,388	42,392	4,523	42,502	67	89	4,030	4,370	3,650	4,030	13,350	10,770	10.00	10.00	1,915,200	2,692,800	86,694	45,102	4,065	41,978	3,789	42,013	87	85
02/04/2015	5,240	6,050	4,110	4,570	12,240	12,410	10.00	10.00	2,275,200	2,937,600	36,600	42,258	5,507	53,943	5,583	53,947	84	96	3,740	3,960	3,000	3,220	12,990	10,800	10.00	10.00	2,232,000	2,491,200	38,600	40,870	2,438	22,500	2,027	22,500	91	99
02/05/2015	4,720	6,110	3,730	4,640	10,810	9,590	10.00	10.00	2,376,000	2,937,600	32,968	42,677	5,102	53,971	4,924	54,512	81	103	3,750	3,780	2,980	3,060	10,430	9,770	10.00	10.00	2,088,000	2,534,400	38,703	39,012	7,682	84,418	7,091	84,205	91	93
02/06/2015	5,370	5,570	4,320	4,290	11,230	9,020	10.00	10.00	2,548,800	2,923,200	37,508	38,905	5,272	54,521	4,546	54,045	75	81	3,580	4,000	2,820	3,210	10,720	9,930	10.00	10.00	1,987,200	2,448,000	36,948	41,283	1,646	17,987	1,440	18,027	84	85
02/07/2015	5,800	6,360	2,400	4,760	10,900	9,860	10.00	10.00	2,563,200	2,995,200	40,512	44,423					76	79	4,120	4,570	2,990	3,420	10,670	10,020	10.00	10.00	1,987,200	2,448,000	42,521	47,166	3,291	35,976	2,881	36,054	83	96
02/08/2015	6,060	5,860	4,730	4,410	12,180	8,970	10.00	10.00	2,520,000	2,937,600	42,328	40,931					68	75	4,180	5,010	3,110	3,880	11,310	11,230	10.00	10.00	2,044,800	2,476,800	43,141	51,707					74	86
02/09/2015	5,700	6,150	4,480	4,660	14,120	13,110	10.00	10.00	2,577,600	2,966,400	39,813	42,956	4,277	36,318			81	106	4,120	4,390	3,180	3,430	12,180	11,290	10.00	10.00	2,059,200	2,404,800	42,521	45,308	3,670	36,124			90	114
02/10/2015	5,360	6,110	4,200	4,690	10,710	10,070	10.00	10.00	2,073,600	2,347,200	37,438	42,677	4,805	54,587	4,436	54,419	86	103	3,680	3,920	2,920	3,120	9,910	9,270	10.00	10.00	2,073,600	2,347,200	37,980	40,457	4,516	53,502	4,247	53,887	98	107
02/11/2015	4,910	6,000	3,900	4,580	10,610	9,970	10.00	10.00	2,433,600	2,923,200	34,295	41,909	4,694	54,537	4,397	53,748	82	102	3,590	3,910	2,850	3,150	10,230	9,390	10.00	10.00	2,102,400	2,390,400	37,051	40,354	1,677	22,614	1,907	22,370	98	79
02/12/2015	5,630	6,520	4,400	4,930	11,440	10,610	10.00	10.00	2,462,400	2,937,600	39,324	45,541	6,509	64,953			92	107	3,850	5,010	2,980	3,980	10,950	10,790	10.00	10.00	1,958,400	2,462,400	39,735	51,707	5,980	65,184			62	96
02/13/2015	5,640	6,250	4,380	4,710	11,410	10,070	10.00	10.00	2,361,600	2,894,400	39,394	43,655	4,372	43,686			73	91	3,670	4,670	2,740	3,700	10,830	10,780	10.00	10.00	1,972,800	2,448,000	37,877	48,198	3,933	43,104			74	88
02/14/2015	5,680	5,810	5,060	4,310	10,650	9,760	10.00	10.00	2,505,600	3,038,400	39,673	40,581					79	95	4,100	5,770	3,440	4,060	10,580	11,650	10.00	10.00	2,088,000	2,390,400	42,315	59,551					76	106
02/15/2015	5,390	6,070	4,390	4,710	11,340	10,190	10.00	10.00	2,592,000	2,952,000	37,648	42,397					93	99	4,100	5,140	3,230	4,090	10,540	11,360	10.00	10.00	1,987,200	2,592,000	42,315	53,049					85	111
02/16/2015	5,880	5,760	4,540	4,350	12,240	13,570	10.00	10.00	2,736,000	3,024,000	41,070	40,232			10,711	94,642	99	101	2,360	5,520	1,820	4,340	7,600	11,580	10.00	10.00	2,188,800	2,304,000	24,357	56,971			8,850	91,640	85	132
02/17/2015	5,530	4,730	4,390	3,690	10,990	7,040	10.00	10.00	2,664,000	3,024,000	38,626	33,038	10,069	107,599	501	6,775	81	63	1,670	4,630	1,370	3,740	4,040	10,710	10.00	10.00	1,886,400	2,577,600	17,236	47,785	357	6,756			78	91
02/18/2015	5,390	1,410	4,300	1,160	1,240	1,530	10.00	10.00	2,505,600	2,808,000	37,648	9,848	6,401	67,500			67	71	620	3,800	530	3,080	1,140	11,210	10.00	10.00	1,915,200	2,534,400	6,399	39,219					81	84
02/19/2015	7,110	2,230	5,570	1,760	11,570	4,030	10.00	10.00	2,448,000	2,937,600	49,662	15,576	6,916	70,500			76	67	220	4,680	210	3,770	50	10,900	10.00	10.00	1,987,200	2,462,400	2,271	48,301			3,340	36,011	159	103
02/20/2015	6,640	3,190	5,330	2,730	10,180	5,750	10.00	10.00	2,520,000	2,894,400	46,379	22,281	11,174	129,685			75	69		3,390		2,860		9,910	10.00	10.00	0	2,520,000		34,987			8,669	99,000		68
02/21/2015	6,730	4,070	5,290	3,230	10,810	6,870	10.00	10.00	2,390,400	2,822,400	47,007	28,428	3,760	44,291			92	69	230	3,300	200	2,670		10,210	10.00	10.00		2,419,200	2,374	34,058			3,941	45,000		76
02/22/2015	6,720	4,360	5,210	3,480	10,660	7,740	10.00	10.00	2,520,000	2,851,200	46,938	30,454					98	78		3,500		2,660		9,680	10.00	10.00		2,548,800		36,123						74
02/23/2015	5,390	4,550	4,280	4,060	10,560	7,480	10.00	10.00	2,548,800	2,880,000	37,648	31,781					80	75		2,990		1,340		8,780	10.00	10.00		2,448,000		30,859			6,829	86,512		67
02/24/2015	7,230	5,830	5,660	4,730	11,790	9,610	10.00	10.00	2,520,000	2,880,000	50,500	40,721	3,685	38,626			87	81		3,400		2,790		9,100	10.00	10.00		2,664,000		35,091			6,878	90,029		71
02/25/2015	7,080	5,360	5,540	4,320	11,660	9,270	10.00	10.00	2,520,000	2,822,400	49,452	37,438	8,584	90,531	4,219	53,820	71	69		3,050		2,420		9,400	10.00	10.00		2,664,000		31,478			1,670	20,428		72
02/26/2015	7,280	5,550	5,770	4,500	11,730	9,560	10.00	10.00	2,419,200	2,836,800	50,849	38,765	5,223	53,391	4,269	53,547	89	87		3,360		2,730		9,110	10.00	10.00		2,520,000		34,678			4,058	50,290		66
02/27/2015	8,280	6,270	6,520	5,050	10,110	9,670	10.00	9.50	2,376,000	2,851,200	57,834	43,794	6,730	67,983	963	12,003	82	85		4,850		3,970		7,520	10.00	9.20	0	2,563,200		50,056			2,782	35,144		74
02/28/2015	8,560	7,380	6,680	5,870	10,260	10,020	10.00	8.91	2,361,600	2,721,600	59,789	51,547	10,545	106,497	8,565	106,756	89	99		4,070		3,360		7,240	10.00	8.71	0	2,548,800		42,005						79
MMAVG																																				
Min.	4,720	1,410	2,400	1,160	1,240	1,530	10	9	2,073,600	2,347,200	32,968	9,848	1,587	17,033	501	6,775	64	63	220	2,990	200	1,340	50	7,240	10	9	0	2,260,800	2,271	30,859	357	6,756	1,440	16,845	62	66
Max.	8,560	7,380	6,680	5,870	14,120	13,570	10	10	2,736,000	3,038,400	59,789	51,547	11,174	129,685	10,711	106,756	99	107	4,270	5,770	3,650	4,340	13,350	11,650	10	10	2,232,000	2,692,800	44,070	59,551	7,682	84,418	8,850	99,000	159	132
Total									69,220,800	81,014,400	1,194,673	1,063,568	119,600	1,252,544	59,020	657,363											38,721,600	69,480,000	660,322	1,216,094	40,804	446,963	71,853	849,955		
Average	6,109	5,438	4,768	4,241	10,966	9,331	10	10	2,472,171	2,893,371	42,667	37,985	5,980	62,627	4,540	50,566	81	86	3,199	4,208	2,529	3,322	9,391	10,129	10	10	1,760,073	2,481,429	33,016	43,432	3,400	37,247	4,227	49,997	86	88

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
03/01/2015	7.31	13.71	4.86	0.10	0.456	0.000	3,575				7.84	312	357	19,021	21,765		7.82	55.0	779	626	315	47,492	19,204		
03/02/2015	7.26	11.71	6.07	0.00	0.530	0.000	1,735		30.0		7.68	372	502	22,524	30,395		7.42	58.0	757	617	375	45,835	22,706		
03/03/2015	6.14	10.92	5.25	0.40	0.553	0.000	21,684		20.0		7.59	362	570	18,537	29,188		7.52	3.0	157	127	216	8,040	11,061		
03/04/2015	8.37	12.69	5.34	0.00	0.576	0.000	4,812		38.0		7.50	368	644	25,689	44,955		7.42	1.0	120	86	197	8,377	13,752		
03/05/2015	7.31	11.96	5.96	0.00	0.538	0.000	10,001		26.0	10.4	7.77	354	646	21,582	39,384		7.48	6.0	183	144	212	11,157	12,925		
03/06/2015	7.28	11.07	5.91		0.559	0.000	18,087		22.0	10.6	7.65	162	615	9,836	37,340		7.41	3.0	130	95	102	7,893	6,193		
03/07/2015	7.38	11.14	5.55		0.518	0.000	3,922		15.0	10.5	7.67	162	479	9,971	29,482		7.45	2.0	110	83	93	6,770	5,724		
03/08/2015	6.88	10.34	4.60	0.00	0.549	0.000			20.0	10.0	7.77	365	576	20,943	33,050		7.71	1.5	128	100	216	7,345	12,394		
03/09/2015	7.61	11.82	4.87	0.00	0.548	0.000	12,593		38.0	10.0	7.63	248	702	15,740	44,554		7.52	1.0	140	111	113	8,885	7,172		
03/10/2015	7.92	11.81	6.30	0.20	0.558	0.000	10,955		43.0	9.4	7.71	69	433	4,558	28,601		7.38	1.5	139	107	101	9,181	6,671		
03/11/2015	11.61	16.74	8.44	0.00	0.559	0.000	12,536		30.0	9.8	7.20	321	399	31,082	38,634		7.36	1.7	128	102	135	12,394	13,072		
03/12/2015	10.54	13.57	8.60	0.00	0.546	0.000	13,492		28.0	8.5	7.71	240	385	21,097	33,843		7.53	0.7	131	102	140	11,515	12,307		
03/13/2015	9.21	12.60	5.81		0.540	0.000	15,235		33.0	9.9	7.66	120	540	9,217	41,478		7.34	1.7	130	108	116	9,985	8,910		
03/14/2015	10.07	18.10	6.39	0.30	0.543	0.000	4,559		25.0	8.3	7.50	320	347	26,875	29,142		7.35	1.4	103	77	148	8,650	12,430		
03/15/2015	10.28	14.24	7.39	0.00	0.516	0.000			40.0	8.5	7.71	180	238	15,432	20,405		7.46	1.0	87	71	110	7,459	9,431		
03/16/2015	10.38	13.63	7.60	0.10	0.519	0.000	16,785		40.0	9.3	7.60	264	316	22,854	27,356		7.48	1.0	95	74	143	8,224	12,379		
03/17/2015	12.03	19.44	7.60	0.10	0.543	0.000	12,220		41.0	9.4	7.42	288	410	28,895	41,135		7.32	1.5	122	107	147	12,240	14,749		
03/18/2015	11.58	15.69	8.81	0.00	0.564	0.000	3,750		26.0	9.2	7.59	234	293	22,599	28,297		7.40	1.5	93	72	143	8,982	13,811		
03/19/2015	10.30	14.49	8.19	0.00	0.456	0.000	14,796		26.0	9.6	7.67	239	329	20,531	28,262		7.47	1.3	107	92	122	9,192	10,480		
03/20/2015	9.88	13.91	7.60	0.00	0.528	0.000	16,775		25.0	9.4	7.52	258	314	21,259	25,873		7.30	1.0	117		87	9,641	7,169		
03/21/2015	9.82	13.95	7.99	0.00	0.499	0.000	1,542		21.0	8.0	7.51	192	261	15,725	21,376		7.24	1.5	82		90	6,716	7,371		
03/22/2015	9.01	13.95	6.80	0.00	0.499	0.000			16.0	6.9	7.63	222	258	16,682	19,387		7.46	3.0	98	71	143	7,364	10,746		
03/23/2015	8.24	13.34	7.12	0.00	0.503	0.000	14,321		22.0	8.7	7.54	288	318	19,792	21,853		7.31	2.1	110	85	176	7,559	12,095		
03/24/2015	9.56	14.89	7.54	0.00	0.503	0.000	24,533		32.0	8.9	7.66	240	362	19,135	28,862		7.43	2.5	107	84	141	8,531	11,242		
03/25/2015	10.78	15.61	8.26	0.10	0.494	0.000	24,045		43.0	9.6	7.66	347	513	31,197	46,121		7.40	3.0	104	85	164	9,350	14,744		
03/26/2015	14.44	22.78	10.27	0.70	0.501	2.872	24,673		46.0	9.7	7.69	240	420	28,903	50,580		7.54	3.5	114	71	84	13,729	10,116		
03/27/2015	19.65	22.94	14.74	0.01	0.483	1.901			38.0	8.9	7.67	45	258	7,375	42,281		7.34	2.5	98		42	16,060	6,883		
03/28/2015	16.60	21.35	11.51	0.10	0.484	0.115	1,239		36.0	7.8	7.69	87	207	12,045	28,658		7.38		91	72	90	12,598	12,460		
03/29/2015	13.66	16.79	11.01	0.00	0.486	0.000			25.0	7.8	7.67	146	195	16,633	22,215		7.48	3.5	86	66	84	9,797	9,570		
03/30/2015	13.89	17.40	11.28	0.00	0.476	0.000	17,975		34.0	8.7	7.54	185	229	21,431	26,528		7.47	4.5	126	101	131	14,596	15,175		
03/31/2015	14.72	19.13	11.77	0.00	0.448	0.107	21,550		42.0	9.0	7.64	176	230	21,607	28,236		7.48	2.0	89	69	111	10,926	13,627		
MMAVG	9.32																								
Min.	6.1	10.3	4.6	0.0		0.000	1,239		15.0	6.9	7.20	45	195	4,558	19,387		7.24	0.7	82	66	42	6716	5724		
Max.	19.7	22.9	14.7	0.7		2.140	24,673		46.0	10.6	7.84	372	702	31,197	50,580		7.82	58.0	779	626	375	47492	22706		
Total	319.7	461.7	239.4	2.1		4.199	327,390																		
Average	10.3	14.9	7.7	0.1		0.135	12,592		30.70	9.14	7.62	239	398	19315	31911		7.44	5.8	157	129	145	12145	11502		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
03/01/2015	7.25	0.01	19.2	12.0	32.4	1,171	1,975	7			4.6	<0.01	<0.01	<0.01							89.615	94.622	7.76	6.6	8.4		7.69	39.0	23.6	18.6					
03/02/2015	7.14	<0.10	105.0	77.0	84.0	6,358	5,086	9	8.7	8.1	5.9	<0.01	<0.01	<0.01							77.419	79.084	7.64	7.8	6.6		7.54	168.0	273.0	221.0					
03/03/2015	6.98	0.20	14.4	9.4	13.7	737	702	5	8.8	8.1	5.3	<0.01	<0.01	<0.01		0.37	19	4.80	246	0.03	96.215	97.474	7.60	6.2	8.8		7.50	26.9	31.6	24.0					
03/04/2015	7.01	0.10	10.0	6.2	20.9	698	1,459	12	9.1	9.0	4.4	<0.01	<0.01	<0.01							94.321	98.447	7.54	6.7	7.6		7.48	18.6	12.4	9.2	35.00	77.00	0.79	22.00	<0.20
03/05/2015	6.85	<0.10	12.4	7.0	6.8	756	415	3	8.7	9.7	3.9	<0.01	<0.01	<0.01							98.079	98.080	7.68	7.8	8.6		7.57	10.4	13.2	10.8					
03/06/2015	7.13	<0.10	11.4	7.8	5.8	692	352	0	8.9	9.5	4.0	<0.01	<0.01	<0.01							96.420	98.146	7.62	7.5	13.0		7.54	7.1	11.6	8.2					
03/07/2015	7.10	<0.10	12.0	9.0	5.8	739	357	5	8.8	8.5	4.1	<0.01	<0.01	<0.01							96.420	97.495	7.68	6.9	11.8		7.59	7.4	15.8	11.0					
03/08/2015	7.20	<0.10	12.8	8.4	6.2	734	356	2	8.9	8.6	4.0	<0.01	<0.01	<0.01							98.301	97.778	7.60	8.4	9.8		7.54	12.6	4.6	5.8					
03/09/2015	7.02	0.20	7.6	6.0	4.2	482	267	0	9.1	10.2	3.7	<0.01	<0.01	<0.01		0.29	18	9.53	605	0.04	98.306	98.917	7.55	5.3	11.6		7.48	6.3	6.6	4.8					
03/10/2015	7.02	0.10	5.4	4.6	4.0	357	264	0	9.2	10.2	4.2	<0.01	<0.01	<0.01							94.203	98.753	7.56	2.6	5.6		7.42	5.4	6.4	3.2					
03/11/2015	7.19	0.00	1.0	0.7	3.3	97	320	1	9.6	8.8	3.8	<0.01	<0.01	<0.01							98.972	99.749	7.50	4.5	7.5		7.43	8.4	12.8	11.2					
03/12/2015	7.13	0.01	14.0	11.0	5.1	1,231	448	27	8.8	10.1	1.3	<0.01	<0.01	<0.01							97.875	96.364	7.59	4.2	10.8		7.57	10.7	14.6	10.8					
03/13/2015	7.09	0.10	13.4	10.3	11.3	1,029	868	2	8.8	10.3	2.8	<0.01	<0.01	<0.01							90.583	97.519	7.41	5.2	8.2		7.42	8.8	4.9	3.6					
03/14/2015	7.11	0.01	11.4	8.8	7.1	957	596	0	8.9	9.6	1.9	<0.01	<0.01	<0.01							97.781	96.715	7.50	4.5	7.4		7.50	14.1	10.2	7.6					
03/15/2015	7.11	<0.10	10.6	6.8	8.1	909	694	0	8.6	8.7	1.0	<0.01	<0.01	<0.01							95.500	95.546	7.52	5.1	11.6		7.57	10.2	10.8	6.6					
03/16/2015	7.09	<0.10	5.8	4.4	21.9	502	1,896	1	8.2	9.2	2.9	<0.01	<0.01	<0.01							91.705	98.165	7.43	4.3	7.6		7.42	40.8	6.6	5.8					
03/17/2015	6.98	0.10	44.4	29.6	44.4	4,455	4,455	1	8.8	9.6	2.6	<0.01	<0.01	<0.01		0.70	70	7.42	744	0.04	84.583	89.171	7.42	4.5	13.6		7.37	78.6	99.0	78.0					
03/18/2015	6.88	<0.10	7.0	3.2	16.4	676	1,584	8	7.9	10.0	2.3	<0.01	<0.01	<0.01							92.991	97.611	7.32	4.2	9.4		7.34	42.6	10.2	6.4					
03/19/2015	6.84	<0.10	8.8	6.2	6.7	756	576	20	7.9	10.2	3.2	<0.01	<0.01								97.197	97.325	7.49	5.3	8.8		7.53	10.5	8.4	7.2					
03/20/2015	7.18	<0.10	13.8		7.2	1,137	593	8	7.9	9.6	2.9	<0.01	<0.01	<0.01							97.209	95.605	7.39	3.2	6.2		7.31	9.9	11.6						
03/21/2015	7.08	<0.10	9.4		14.4	770	1,179	0	8.1	10.3	2.7	<0.01	<0.01	<0.01							92.500	96.398	7.32	4.4	9.8		7.22	19.4	8.6						
03/22/2015	6.94	<0.10	6.4	5.2	13.2	481	992	1	7.7	9.8	2.9	<0.01	<0.01	<0.01							94.054	97.519	7.49	4.1	8.8		7.44	18.1	10.6	7.8					
03/23/2015	7.09	<0.10	6.6	3.6	13.6	454	935	9	7.8	9.5	3.6	<0.01	<0.01	<0.01							95.278	97.925	7.39	4.2	9.8		7.35	19.2	9.6	4.8					
03/24/2015	6.92	<0.10	7.6	4.4	12.8	606	1,021	4	7.9	9.6	3.1	<0.01	<0.01	<0.01		0.22	18	5.70	454	0.02	94.667	97.901	7.53	3.8	7.4		7.46	14.5	8.6	4.2					
03/25/2015	6.87	<0.10	28.2	20.2	21.6	2,535	1,942	2	9.0	8.3	4.2	<0.01	<0.01	<0.01							93.775	94.503	7.51	2.7	7.4		7.33	34.8	55.8	42.6					
03/26/2015	7.11	<0.10	75.0	57.0	43.2	9,032	5,203	1	9.4	7.3	3.0	<0.01	<0.01	<0.01							82.000	82.143	7.55	3.5	8.0		7.43	62.4	137.0	93.0					
03/27/2015	7.03	1.50						2000	8.3	9.7	16.3	<0.01	<0.01	<0.01									7.46	3.2	8.4		7.33	6.3	8.6						
03/28/2015	7.11	0.00	22.0	16.4	5.7	3,046	789	72	8.1	8.4	3.1	<0.01	<0.01	<0.01							93.448	89.372	7.51	3.0	10.2		7.43	16.4	10.4	7.6					
03/29/2015	7.10	0.00	8.6	5.4	19.7	980	2,244	3	7.7	7.9	7.2	<0.01	<0.01	<0.01							86.507	95.590	7.54	3.2	6.6		7.48	28.2	8.8	7.8					
03/30/2015	7.04	<0.10	26.4	17.2	29.1	3,058	3,371	6	7.6	8.3	3.3	<0.01	<0.01	<0.01							84.270	88.472	7.46	4.2	9.2		7.41	51.6	46.6	34.0					
03/31/2015	6.95	<0.10	39.6	29.8	38.4	4,861	4,714	3	8.8	7.3	2.0	<0.01	<0.01	<0.01		0.81	99	5.10	626	0.05	78.182	82.783	7.45	5.4	8.8		7.37	49.2	56.0	37.0					
MMAVG														MMAVG		0.34																			
Min.	6.8	0.00	1	1	3	97	264	0	7.6	7.3	1			<0.01		0.22	18	4.80	246	0.02	77.42	79.08	7.3	2.6	5.6		7.2	5.4	4.6	3.2	35.0	77	0.79	22.0	<0.20
Max.	7.3	1.50	105	77	84	9032	5203	2000	9.6	10.3	16			<0.01		0.81	99	9.53	744	0.05	98.97	99.75	7.8	8.4	13.6		7.7	168.0	273.0	221.0	35.0	77	0.79	22.0	<0.20
Total																																			
Average	7.0	<0.13	19	14	18	1677	1522	4	8.5	9.1	4			<0.01		0.48	45	6.51	535	0.04	92.61	94.84	7.5	4.9	8.9		7.5	27.6	30.6	24.7	35.0	77	0.79	22.0	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
03/01/2015	7,530	7,320	6,060	6,010	8,560	10,560	10.00	8.43	2,390,400	2,836,800	52,595	51,128	10,581	106,855	8,901	107,334	80	90		4,280		3,530		7,180	10.00	7.97	0	2,577,600		44,173						82
03/02/2015	7,340	7,860	5,820	6,310	8,900	10,580	10.00	6.72	2,419,200	2,793,600	51,268	54,900	4,445	61,738	9,423	107,238	86	93		4,860		3,860		8,150	10.00	5.29	2,534,400	2,534,400		50,159			3,005	45,216		95
03/03/2015	7,430	7,800	5,890	6,180	10,470	10,470	10.00	8.45	2,505,600	2,836,800	51,897	54,481			9,275	106,732	70	87		4,260		3,420		8,340	10.00	7.11	2,462,400	2,462,400	86,694	43,966			2,949	45,095		85
03/04/2015	7,490	7,400	6,030	5,900	9,360	10,350	9.26	9.00	2,520,000	2,793,600	52,316	51,687	4,310	53,347	9,069	108,746	88	96	3,690	4,670	2,880	3,700	7,200	5,830	7.27	7.97	2,707,200	2,606,400	38,084	48,198					76	103
03/05/2015	7,310	7,370	5,720	5,840	9,170	9,390	9.84	6.20	2,505,600	2,808,000	51,059	51,478	4,305	53,797	9,681	122,050	89	109	3,960	4,600	3,160	3,720	6,980	6,280	6.96	8.42	2,908,800	2,635,200	40,870	47,475					93	130
03/06/2015	6,980	6,880	5,480	5,410	13,100	11,390	6.78	7.96	2,476,800	2,894,400	48,754	48,055	4,104	54,433	11,242	143,825	69	79	4,600	4,830	3,540	3,770	11,480	8,240	7.45	9.61	2,952,000	2,635,200	47,475	49,849					78	91
03/07/2015	6,500	6,250	5,090	5,000	9,920	10,790	5.74	10.00	2,448,000	2,908,800	45,401	43,655	4,468	54,009	7,987	96,880	95	112	4,110	4,190	3,450	3,540	10,450	7,340	7.32	9.21	2,764,800	2,678,400	42,418	43,244	4,714	54,087	2,798	45,707	146	143
03/08/2015	6,040	7,000	4,690	5,460	10,710	11,730	5.71	10.00	2,534,400	2,865,600	42,188	48,893	4,856	54,365	5,364	54,829	75	87	4,700	4,150	3,790	3,300	10,170	7,150	6.84	9.03	2,980,800	2,563,200	48,508	42,831	3,269	54,289	2,290	54,149	121	130
03/09/2015	5,310	6,050	4,140	4,760	6,490	9,880	5.88	9.42	2,448,000	2,880,000	37,089	42,258	4,859	54,400	5,279	54,800	81	119	4,740	3,860	3,820	3,090	7,990	4,320	6.24	9.20	2,822,400	2,563,200	48,920	39,838					156	132
03/10/2015	4,770	6,450	3,670	5,050	5,540	9,860	6.02	10.00	2,491,200	2,894,400	33,317	45,052			7,363	89,857	88	121	4,100	3,510	3,240	2,800	6,990	4,830	6.41	9.43	2,764,800	2,836,800	42,315	36,226	6,529	90,289			178	134
03/11/2015	5,110	7,240	3,860	5,510	6,010	10,100	5.82	10.00	2,534,400	2,880,000	35,692	50,570			7,426	90,213	78	104	3,980	3,530	3,090	2,750	8,410	5,730	6.10	8.31	2,592,000	2,577,600	41,077	36,432	1,533	22,500			158	139
03/12/2015	4,770	6,580	3,690	5,240	6,310	10,140	5.97	10.00	2,520,000	2,865,600	33,317	45,960			7,379	89,464	80	111	3,230	3,680	2,600	2,930	7,910	6,550	8.32	9.60	2,707,200	2,649,600	33,336	37,980	6,084	90,289	3,418	59,920	124	133
03/13/2015	4,810	6,650	3,750	5,150	5,900	9,560	6.29	10.00	2,476,800	2,880,000	33,597	46,449			3,687	54,376	87	113	3,760	3,920	3,030	3,070	8,030	6,340	8.23	10.00	2,664,000	2,606,400	38,806	40,457	5,461	80,160	3,042	53,998	141	148
03/14/2015	4,980	6,810	3,840	5,320	5,980	9,800	10.00	9.40	2,376,000	2,836,800	34,784	47,566			4,246	51,948	86	88	3,930	4,000	3,130	3,150	7,700	5,650	9.80	7.90	2,836,800	2,678,400	40,561	41,283	2,706	40,500	2,439	51,754	109	118
03/15/2015	4,700	6,850	3,650	5,290	6,030	9,930	10.00	10.00	2,491,200	2,808,000	32,828	47,846					113	48	3,460	3,820	2,730	2,990	7,890	6,230	9.80	8.50	2,880,000	2,649,600	35,710	39,425	3,524	54,214			93	94
03/16/2015	4,310	6,940	3,310	5,430	5,110	9,920	10.00	10.00	2,419,200	2,894,400	30,104	48,474			1,629	20,565	86	102	3,500	3,930	2,820	3,100	7,600	6,500	8.30	9.65	2,908,800	2,721,600	36,123	40,561	3,560	54,270	1,401	26,964	137	148
03/17/2015	4,380	5,070	3,360	4,000	6,900	10,020	10.00	10.00	2,404,800	2,880,000	30,593	35,413			2,510	31,676	80	136	3,500	4,210	2,850	3,310	7,640	7,160	7.44	8.36	2,808,000	2,606,400	36,123	43,450	3,351	54,000	1,067	18,106	129	147
03/18/2015	4,260	7,030	3,250	5,400	5,490	10,110	10.00	10.00	2,448,000	2,808,000	29,755	49,103			7,297	87,062	82	91	3,000	3,720	2,430	2,930	7,370	7,670	9.05	10.00	3,096,000	2,880,000	30,962	38,393	5,763	92,138	2,148	35,971	113	132
03/19/2015	4,240	6,840	3,230	5,230	5,650	9,710	10.00	10.00	2,520,000	2,851,200	29,615	47,776			4,295	51,707	90	105	3,320	4,210	2,700	3,340	7,590	8,000	8.97	10.00	2,952,000	2,664,000	34,265	43,450	3,468	54,435	3,490	53,315	133	162
03/20/2015	4,430	6,880	3,370	5,230	5,170	9,850	10.00	10.00	2,448,000	2,836,800	30,942	48,055			4,639	54,156	84	87	3,700	4,310	2,910	3,420	7,610	7,750	8.49	10.00	2,966,400	2,592,000	38,187	44,482	3,489	54,195	3,661	53,963	130	162
03/21/2015	4,680	7,490	3,620	5,710	9,470	10,230	10.00	10.00	2,491,200	2,822,400	32,689	52,316			1,692	19,827	73	94	3,950	4,660	3,010	3,530	4,530	8,360	8.30	9.96	2,966,400	2,491,200	40,767	48,095	2,695	52,587	3,725	53,979	132	159
03/22/2015	4,440	7,160	3,300	5,470	5,340	10,270	10.00	10.00	2,404,800	2,851,200	31,012	50,011			4,660	54,411	68	70	3,690	4,530	2,900	3,450	7,580	7,210	10.00	8.45	2,822,400	2,606,400	38,084	46,753	2,405	54,000	3,248	54,016	89	95
03/23/2015	4,300	6,750	3,270	5,090	5,380	10,150	10.00	10.00	2,448,000	2,880,000	30,034	47,147			7,703	88,683	79	96	5,790	4,300	4,470	3,310	7,640	7,020	10.00	8.50	2,851,200	2,664,000	59,757	44,379	3,508	54,725			78	156
03/24/2015	3,990	6,810	3,070	5,230	4,230	9,820	10.00	10.00	2,462,400	2,836,800	27,869	47,566			7,849	89,970	83	94	3,560	4,370	2,880	3,440	7,450	7,210	9.40	7.60	2,808,000	2,606,400	36,742	45,102			5,767	90,513	140	165
03/25/2015	3,910	6,780	2,980	5,130	4,730	9,560	10.00	10.00	2,548,800	2,880,000	27,310	47,357			4,463	52,902	77	90	3,370	4,040	2,610	3,110	7,300	7,170	9.94	8.22	2,793,600	2,678,400	34,781	41,696	392	6,258	3,524	53,965	131	163
03/26/2015	3,970	7,060	3,040	5,410	5,240	9,870	10.00	10.00	2,491,200	2,836,800	27,729	49,312					76	84	3,120	3,880	2,530	3,050	7,330	7,600	7.63	8.39	2,880,000	2,548,800	32,201	40,045	2,869	46,932	684	10,797	122	139
03/27/2015	3,810	7,240	2,960	5,500	10,270	5,540	10.00	10.00	2,476,800	2,836,800	26,612	50,570			818	17,869	79	86	3,030	4,000	2,390	3,110	7,380	7,850	10.00	9.01	3,009,600	2,620,800	31,272	41,283	5,528	89,417	1,181	17,567	116	133
03/28/2015	3,830	6,960	2,930	5,310	5,660	9,920	10.00	10.00	2,476,800	2,822,400	26,752	48,614			1,467	17,730	86	103	2,800	3,350	2,220	2,670	7,670	8,340	9.49	10.00	2,880,000	2,548,800	28,898	34,575	3,937	62,411	1,277	17,955	136	161
03/29/2015	3,910	6,470	2,950	5,100	4,490	5,390	10.00	10.00	2,462,400	2,793,600	27,310	45,191			811	18,037	82	113	2,860	3,490	2,340	2,770	7,520	8,060	9.80	10.00	2,880,000	2,563,200	29,517	36,019	1,146	18,100	1,232	18,012	140	161
03/30/2015	3,980	6,630	3,030	5,140	4,410	9,880	10.00	10.00	2,520,000	2,822,400	27,799	46,309			1,461	18,039	78	100	2,820	3,710	2,340	2,960	7,510	8,590	9.40	10.00	2,894,400	2,491,200	29,105	38,290	1,134	18,113	2,269	34,329	142	143
03/31/2015	4,130	6,970	3,080	5,220	4,960	10,420	10.00	10.00	2,491,200	2,779,200	28,847	48,684			1,472	17,978	73	86	2,940	4,060	2,250	3,100	7,960	9,010	9.28	8.76	3,009,600	2,520,000	30,343	41,902	2,137	32,195	17,139	70,592	122	118
MMAVG																																				
Min.	3,810	5,070	2,930	4,000	4,230	5,390	6	6	2,376,000	2,779,200	26,612	35,413	4,104	53,347	811	17,730	68	48	2,800	3,350	2,220	2,670	4,530	4,320	6	5	0	2,462,400	28,898	34,575	392	6,258	684	10,797	76	82
Max.	7,530	7,860	6,060	6,310	13,100	11,730	10	10	2,548,800	2,908,800	52,595	54,900	10,581	106,855	11,242	143,825	113	136	5,790	4,860	4,470	3,860	11,480	9,010	10	10	3,096,000	2,880,000	59,757	50,159	6,529	92,138	17,139	90,513	178	165
Total									76,651,200	88,214,400	1,101,074	1,491,876	41,928	492,944	159,088	1,918,904											85,104,000	81,057,600	1,065,207	1,310,011	79,202	1,230,104	71,754	965,883		
Average	5,085	6,890	3,940	5,356	6,934	9,845	9	10	2,472,619	2,845,626	35,519	48,125	5,241	61,618	5,486	66,169	82	97	3,686	4,095	2,933	3,233	7,817	7,150	9	9	2,745,290	2,614,761	38,043	42,258	3,444	53,483	3,262	43,904	124	132

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
04/01/2015	13.09	17.32	11.65	0.00	0.496	0.000	13,394		38.0	9.0	7.58	171	268	18,668	29,258		7.45	2.3	73	49	60	7,969	6,550		
04/02/2015	14.41	18.29	11.44	0.10	0.443	0.000	32,628		41.0	9.1	7.63	222	323	26,680	38,818		7.45	1.6	88	63	75	10,576	9,013		
04/03/2015	17.47	23.98	13.80	0.20	0.489	3.890	9,508		55.0	9.3	7.54	155	258	22,583	37,591		7.27	4.0	105	73	66	15,298	9,616		
04/04/2015	19.69	22.99	14.14	0.10	0.514	5.360			47.0	10.6	7.50	197	221	32,350	36,291		7.40	3.3	87	70	96	14,287	15,765		
04/05/2015	16.10	18.33	12.37	0.00	0.535	1.926			3.9	8.5	7.61	143	172	19,201	23,095		7.49	2.5	87	59	72	11,682	9,668		
04/06/2015	15.02	18.29	12.37	0.00	0.502	0.792	11,999		40.0	8.6	7.58	162	262	20,293	32,820		7.44	2.5	88	63	72	11,023	9,019		
04/07/2015	14.83	18.00	11.84	0.00	0.431	0.395	12,802		37.0	9.1	7.44	195	284	24,118	35,126		7.32	3.6	102	82	122	12,616	15,089		
04/08/2015	14.14	18.77	12.12	0.30	0.406	0.000	34,963		38.0	9.0	7.52	210	286	24,765	33,727		7.42	2.0	79	62	75	9,316	8,845		
04/09/2015	14.27	18.61	12.16	0.20	0.485	0.000	15,594		29.0	9.3	7.59	189	313	22,493	37,251		7.43	3.0	92	71	78	10,949	9,283		
04/10/2015	15.78	18.61	12.17	0.10	0.542	0.616			39.0	9.4	7.89	260	418	34,217	55,011		7.47	3.5	135	97	78	17,767	10,265		
04/11/2015	15.02	18.14	11.37	0.00	0.542	0.000	1,564		40.0	9.1	6.80	102	249	12,777	31,191		7.55	5.0	96	69	48	12,026	6,013		
04/12/2015	13.49	16.96	10.62	0.00	0.544	0.000			44.0	9.0	7.64	167	221	18,789	24,864		7.48	3.5	87	69	81	9,788	9,113		
04/13/2015	13.65	16.93	10.33	0.10	0.469	0.000	65,210		61.0	9.5	7.56	282	418	32,103	47,586		7.47	7.5	137	106	102	15,596	11,612		
04/14/2015	13.81	16.54	10.56	0.00	0.459	0.000	18,782		59.0	10.0	7.69	186	325	21,423	37,432		7.46	10.0	133	106	104	15,318	11,978		
04/15/2015	12.96	16.11	9.87	0.00	0.330	0.000	43,820		58.0	10.2	7.54	264	455	28,535	49,179		7.26	10.0	140	113	123	15,132	13,295		
04/16/2015	12.60	16.54	9.07	0.10	0.373	0.000	29,759		55.0	10.3	7.62	258	364	27,112	38,251		7.34	22.0	272	232	194	28,583	20,386		
04/17/2015	12.71	16.80	9.26	0.10	0.336	0.000	36,714		52.0	11.1	7.50	446	420	47,277	44,521		7.40	13.0	230	199	185	24,380	19,610		
04/18/2015	11.07	12.78	7.40	0.00	0.353	0.000	21,978		19.5	10.5	7.60	359	312	33,144	28,805		7.40	15.0	216	174	188	19,942	17,357		
04/19/2015	9.89	13.35	7.25	0.00	0.333	0.000	18,435		10.5	9.1	7.60	152	195	12,537	16,084		7.30	10.5	187	168	170	15,424	14,022		
04/20/2015	14.13	27.24	7.88	1.50	0.353	4.519	24,834		6.1	9.5	7.71	180	382	21,212	45,016		7.46	6.0	127	101	96	14,966	11,313		
04/21/2015	17.83	20.98	11.31	0.10	0.329	4.044			54.0	10.6	7.65	171	235	25,428	34,945		7.36	2.5	90	71	116	13,383	17,249		
04/22/2015	13.84	15.40	10.46	0.10	0.334	2.914	18,995		57.0	10.3	7.62	216	266	24,932	30,703		7.60	2.8	88	74	116	10,157	13,389		
04/23/2015	12.89	15.48	9.74	0.00	0.345	0.000	37,743		44.0	10.4	7.76	221	293	23,758	31,498		7.62	2.1	89	73	105	9,568	11,288		
04/24/2015	12.39	16.81	8.95	0.00	0.348	0.000	46,401		40.0	10.7	7.60	204	387	21,080	39,990		7.42	2.0	117		114	12,090	11,780		
04/25/2015	11.04	14.61	8.16	0.00	0.321	0.000	30,793		33.0	9.6	7.57	330	360	30,384	33,146		7.33	2.0	117		126	10,773	11,601		
04/26/2015	10.87	14.78	9.85	0.00	0.349	0.000			42.0	10.0	7.77	180	430	16,318	38,982		7.59	2.5	100	81	95	9,066	8,612		
04/27/2015	10.47	13.57	7.10	0.10	0.343	0.000	46,448		52.0	11.1	7.78	210	381	18,337	33,269		7.48	2.0	135	104	66	11,788	5,763		
04/28/2015	10.15	13.57	6.90	0.00	0.330	0.000	50,269		55.0	11.7	7.70	263	416	22,263	35,215		7.56	3.0	127	101	159	10,751	13,460		
04/29/2015	9.87	12.63	6.95	0.00	0.319	0.000	38,631		56.0	11.9	7.72	405	410	33,338	33,749		7.46	1.5	128	103	167	10,536	13,747		
04/30/2015	10.14	13.25	7.48	0.00	0.327	0.000	44,644		48.0	11.8	7.75	330	593	27,907	50,149		7.62	2.0	119	99	117	10,064	9,894		
MMAVG	9.33																								
Min.	9.9	12.6	6.9	0.0		0.000	1,564		3.9	8.5	6.80	102	172	12,537	16,084		7.26	1.5	73	49	48	7969	5763		
Max.	19.7	27.2	14.1	1.5		5.360	65,210		61.0	11.9	7.89	446	593	47,277	55,011		7.62	22.0	272	232	194	28583	20386		
Total	403.6	515.7	304.6	3.1		24.456	705,908																		
Average	13.5	17.2	10.2	0.1		0.815	29,413		41.80	9.94	7.60	228	331	24801	36119		7.44	5.1	122	98	109	13360	11820		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
04/01/2015	6.84	<0.10	9.4	6.0	6.5	1,026	710	12	8.6	8.2	2.4	<0.01	<0.01	<0.01							96.199	96.493	7.44	6.0	8.0		7.35	7.8	11.4	6.8					
04/02/2015	6.88	<0.10	55.0	32.0	22.3	6,610	2,680	11	9.0	8.1	3.0	<0.01	<0.01	<0.01							89.955	82.972	7.52	5.3	8.0		7.39	39.0	64.0	54.0	46.00	170.00	1.50	22.00	<0.20
04/03/2015	6.98	<0.10	26.0	19.8	24.6	3,788	3,584	8	9.1	7.0	2.9	<0.01	<0.01	<0.01							84.129	89.922	7.39	4.9	7.2		7.38	16.8	24.6	18.4					
04/04/2015	7.00	0.10	28.2	20.6	31.2	4,631	5,123	915	8.4	9.2	7.5	<0.01	<0.01	<0.01							84.162	87.240	7.60	4.7	6.2		7.50	6.9	8.0	7.2					
04/05/2015	7.20	0.40	13.4	7.6	17.6	1,799	2,363	170	8.0	8.9	5.4	<0.01	<0.01	<0.01		0.30	40				87.692	92.209	7.54	2.2	6.6		7.42	6.9	8.0	5.6					
04/06/2015	7.05	<0.10	18.2	11.0	19.7	2,280	2,468	270	8.2	9.9	7.1	<0.01	<0.01	<0.01		0.25	31	3.65	457		87.840	93.053	7.46	2.0	5.2		7.41	9.7	5.8	2.0					
04/07/2015	6.89	<0.10	12.6	10.8	24.6	1,558	3,043	6	8.2	8.9	4.3	<0.01	<0.01	<0.01		0.22	27				87.385	95.563	7.34	2.2	6.2		7.31	30.6	15.6	10.2					
04/08/2015	6.67	<0.10	9.0	5.2	5.8	1,061	684	1	8.3	9.1	1.6	<0.01	<0.01	<0.01							97.238	96.853	7.29	3.9	7.2		7.26	5.7	8.0	6.0					
04/09/2015	6.68	<0.10	9.0	4.8	6.1	1,071	726	3	8.7	8.0	2.0	<0.01	<0.01	<0.01							96.772	97.125	7.49	3.4	9.8		7.57	6.4	5.6	3.4					
04/10/2015	7.16	<0.10	11.6	7.7	7.8	1,527	1,027		8.9	8.0	3.1	<0.01	<0.01	<0.01							97.000	97.225	7.58	3.2	6.8		7.44	6.6	9.8	5.9					
04/11/2015	7.12	0.01	7.4	6.0	4.5	927	564	25	9.0	8.4	2.1	<0.01	<0.01	<0.01							95.588	97.028	7.60	2.6	9.2		7.51	5.0	9.0	5.4					
04/12/2015	7.10	0.01	4.4	3.6	4.3	495	484	5	9.0	8.4	2.0	<0.01	<0.01	<0.01							97.425	98.009	7.66	2.7	6.0		7.46	5.3	8.8	5.2					
04/13/2015	7.09	<0.10	8.4	4.2	5.7	956	649	8	9.4	7.3	2.4	<0.01	<0.01	<0.01		0.08	9	3.70	421		97.979	97.990	7.69	3.4	8.0		7.51	6.2	9.2	5.4					
04/14/2015	6.92	<0.10	4.2	3.6	5.2	484	599	13	10.2	8.4	1.9	<0.01	<0.01	<0.01		0.08	9				97.204	98.708	7.62	3.5	5.2		7.50	6.5	4.6	2.8					
04/15/2015	7.04	<0.10	7.0	5.0	5.5	757	594	3	10.8	8.5	1.8	<0.01	<0.01	<0.01							97.917	98.462	7.43	3.3	6.0		7.34	4.6	5.2	3.4					
04/16/2015	6.87	0.20	7.6	4.2	5.9	799	620	50	10.9	7.8	6.5	<0.01	<0.01	<0.01							97.713	97.912	7.76	4.7	5.8		7.60	7.5	10.8	8.8		<50.00			
04/17/2015	7.15	<0.10	5.0	3.4	5.5	530	583	8	11.4	7.3	2.0	<0.01	<0.01	<0.01							98.767	98.810	7.70	4.8	6.8		7.50	5.0	7.4	5.0					
04/18/2015	7.20	<0.10	5.4	3.4	4.7	499	434	2	12.1	7.8	1.3	<0.01	<0.01	<0.01							98.691	98.269	8.00	5.1	6.6		8.00	5.9	7.0	4.4					
04/19/2015	7.20	<0.10	3.8	2.6	4.4	313	363	0	11.2	9.1	1.4	<0.01	<0.01	<0.01							97.105	98.051	7.60	4.3	4.6		7.40	4.7	4.6	3.6					
04/20/2015	7.10	<0.10	38.6	27.8	31.5	4,549	3,712	2	11.0	8.9	1.4	<0.01	<0.01	<0.01				4.60	542		82.500	89.895	7.63	4.1	6.8		7.57	7.0	8.0	6.8					
04/21/2015	7.19	0.30	28.6	21.0	35.0	4,253	5,205	800	10.9	7.8	20.0	<0.01	<0.01	<0.01		0.46	68				79.532	87.830	7.49	2.8	6.2		7.40	4.9	6.6	3.2					
04/22/2015	6.86	0.10	25.2	18.4	38.7	2,909	4,467	5	11.1	8.3	2.5	<0.01	<0.01	<0.01							82.083	90.526	7.47	3.3	7.2		7.38	10.9	10.8	6.4					
04/23/2015	6.86	<0.10	8.6	4.6	10.2	925	1,097	13	10.9	8.2	2.5	<0.01	<0.01	<0.01							95.385	97.065	7.55	6.2	5.6		7.41	7.7	7.8	4.0					
04/24/2015	7.09	0.10	8.4		7.5	868	775	26	10.4	9.2	2.9	<0.01	<0.01	<0.01							96.324	97.829	7.50	6.7	6.6		7.33	14.4	8.0						
04/25/2015	6.96	0.10	6.2		5.1	571	470	7	10.3	8.9	2.1	<0.01	<0.01	<0.01							98.455	98.278	7.53	4.5	9.6		7.28	6.8	-11.4						
04/26/2015	6.96	0.10	6.0	3.8	5.4	544	490	1	10.8	9.6	2.4	<0.01	<0.01	<0.01		0.05	5				97.000	98.605	7.73	3.1	6.6		7.48	5.6	9.2	7.6					
04/27/2015	7.19	<0.10	7.6	4.4	5.2	664	454	3	11.5	8.4	3.4	<0.01	<0.01	<0.01		0.06	5	2.05	179		97.524	98.005	7.55	2.9	7.4		7.51	5.1	8.4	6.8					
04/28/2015	6.98	<0.10	6.8	4.6	5.5	576	466	2	11.3	8.2	1.6	<0.01	<0.01	<0.01		0.12	10				97.909	98.365	7.71	2.5	6.6		7.62	7.5	14.8	11.4					
04/29/2015	7.01	<0.10	5.4	3.2	4.5	445	370	4	12.1	9.3	2.4	<0.01	<0.01	<0.01							98.889	98.683	7.65	2.4	7.4		7.49	6.8	17.0	11.4					
04/30/2015	7.16	0.10	9.4	7.2	6.3	795	533	1	12.2	8.3	1.5	<0.01	<0.01	<0.01							98.091	98.415	7.75	4.0	8.4		7.65	8.1	17.8	13.8					
MMAVG													MMAVG		0.34																				
Min.	6.7	0.01	4	3	4	313	363	0	8.0	7.0	1			<0.01		0.05	5	2.05	179		79.53	82.97	7.3	2.0	4.6		7.3	4.6	-11.4	2.0	46.0	<50	1.50	22.0	<0.20
Max.	7.2	0.40	55	32	39	6610	5205	915	12.2	9.9	20			<0.01		0.46	68	4.60	542		98.89	98.81	8.0	6.7	9.8		8.0	39.0	64.0	54.0	46.0	170	1.50	22.0	<0.20
Total																																			
Average	7.0	<0.11	13	9	12	1607	1511	9	10.1	8.4	3			<0.01		0.18	23	3.50	400		93.68	95.51	7.6	3.8	6.9		7.5	9.1	10.8	8.4	46.0	<110	1.50	22.0	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
04/01/2015		6,050		4,590		9,580	10.00	10.00		2,995,200		42,258			0	0		79	2,890	3,460	2,250	2,660	7,450	8,590	9.15	10.00	2,750,400	2,404,800	29,827	35,710	1,701	31,570	2,127	29,695	111	130
04/02/2015	7,330	4,710	5,340	3,390	11,590	6,370	10.00	10.00	2,851,200	3,096,000	51,198	32,898			1,657	17,993	71	68	3,100	3,560	2,430	2,720	7,660	8,790	8.92	9.52	2,851,200	2,606,400	31,994	36,742	3,861	60,501	4,735	64,966	97	104
04/03/2015	8,710	2,560	6,470	1,880	12,090	3,780	9.72	10.00	2,376,000	3,067,200	60,837	17,881	11,156	118,375			85	70	2,870	3,350	2,180	2,520	7,600	8,610	8.69	10.00	2,793,600	2,433,600	86,694	34,575	3,030	48,479	1,771	24,000	105	99
04/04/2015	7,500	2,170	5,740	1,710	10,800	3,070	9.97	10.00	2,347,200	3,110,400	52,386	15,157	10,061	108,814			97	97	2,980	3,960	2,490	3,170	8,070	9,240	8.48	8.23	2,548,800	2,088,000	30,756	40,870					128	131
04/05/2015	7,670	2,780	7,110	770	9,290	3,980	10.00	10.00	2,318,400	3,067,200	53,573	19,418	5,522	69,266			102	94	3,290	4,600	2,270	3,950	9,120	9,800	9.29	9.77	2,505,600	2,102,400	33,955	47,475					134	135
04/06/2015	7,170	3,380	5,330	2,590	8,380	5,130	10.00	10.00	2,361,600	3,081,600	50,081	23,608	3,669	49,442	986	22,826	77	80	2,890	3,610	2,300	2,920	8,060	9,220	10.00	9.70	2,476,800	2,059,200	29,827	37,258	1,961	27,097	1,354	17,067	114	105
04/07/2015	6,860	4,190	5,180	3,230	7,300	6,370	10.00	10.00	2,808,000	3,052,800	47,915	29,266	306	5,027	265	4,995	85	76	3,010	3,600	2,330	2,780	8,440	9,470	10.00	9.10	2,505,600	2,088,000	31,065	37,155	1,559	22,484	1,829	22,598	110	106
04/08/2015	6,490	4,770	4,860	3,650	6,850	7,620	8.90	9.40	2,131,200	2,592,000	45,331	33,317					69	69	3,630	3,570	2,950	2,850	8,230	9,830	8.40	7.90	2,577,600	1,987,200	37,464	36,845					83	98
04/09/2015	5,230	4,760	3,850	3,640	10,300	8,550	10.00	10.00	2,188,800	2,548,800	36,530	33,247	3,265	36,415			77	71	3,710	4,330	1,860	2,030	8,450	9,890	8.80	8.30	2,491,200	2,059,200	38,290	44,689			932	12,000	94	92
04/10/2015	5,360	5,060	4,000	3,890	11,260	8,530	10.00	10.00	2,088,000	2,635,200	37,438	35,343	3,292	36,735			84	75	3,330	3,900	2,660	3,080	8,460	9,910	9.40	8.40	2,476,800	2,030,400	34,368	40,251			2,903	33,250	114	115
04/11/2015	5,500	2,120	4,230	1,670	10,060	3,060	10.00	10.00	2,188,800	2,548,800	38,416	14,808	3,330	36,800			73	80	3,610	4,310	2,850	3,320	9,340	10,450	7.91	8.37	2,606,400	2,088,000	37,258	44,482			3,109	35,619	103	102
04/12/2015	5,390	5,000	4,110	3,830	10,150	8,420	10.00	10.00	2,016,000	2,520,000	37,648	34,924	3,082	36,750			78	76	3,770	4,750	2,940	3,690	9,110	11,010	7.93	8.08	2,592,000	2,030,400	38,909	49,024			2,904	33,000	106	112
04/13/2015	5,500	5,060	4,270	3,960	10,840	8,640	10.00	10.00	2,073,600	2,505,600	38,416	35,343	2,050	22,676	1,585	21,992	87	75	3,840	4,720	2,980	3,750	9,460	10,040	7.54	7.84	2,462,400	2,059,200	39,632	48,714	1,753	22,216	4,599	52,295	112	114
04/14/2015	5,680	5,380	4,410	4,100	11,030	9,050	10.00	10.00	2,203,200	2,548,800	39,673	37,578	4,736	53,326	4,116	54,414	72	74	4,040	4,720	3,260	3,690	10,060	10,740	8.39	9.20	2,620,800	2,059,200	41,696	48,714	4,500	53,635	4,781	53,377	102	102
04/15/2015	5,850	4,980	4,540	3,940	10,340	8,690	10.00	10.00	2,160,000	2,476,800	40,861	34,784	2,044	52,941	3,360	53,723	77	76	4,010	5,070	3,280	4,060	9,540	10,710	8.29	8.75	2,448,000	2,016,000	41,386	52,326					120	114
04/16/2015	5,090	4,660	4,040	4,300	9,470	8,090	10.00	10.00	2,145,600	2,534,400	35,552	32,549	1,960	27,358	2,046	27,089	92	88	4,330	5,220	3,490	4,160	9,960	10,940	8.40	9.16	2,433,600	2,044,800	44,689	53,874					132	136
04/17/2015	5,920	5,300	4,700	4,180	11,310	8,610	10.00	9.61	2,232,000	2,491,200	41,350	37,019					76	76	4,480	5,550	3,570	4,350	10,730	11,280	7.81	8.41	2,188,800	1,771,200	46,237	57,280	4,634	51,690	5,367	51,690	107	112
04/18/2015	5,630	5,430	4,460	4,310	17,420	8,790	9.54	8.83	2,131,200	2,534,400	39,324	37,927	2,467	16,983	1,244	16,969	87	81	4,950	6,050	4,180	4,910	12,850	12,140	8.08	8.83	2,145,600	1,771,200	51,088	62,441	3,670	35,840	3,561	34,932	111	107
04/19/2015	5,880	5,820	4,550	4,510	10,870	12,900	9.39	9.17	2,232,000	2,476,800	41,070	40,651	1,560	17,205	1,837	17,079	90	76	5,180	6,040	4,180	4,780	12,370	10,740	7.64	7.42	2,145,600	1,785,600	53,461	62,337	1,723	16,700	1,480	16,524	126	123
04/20/2015	6,020	5,240	4,740	4,110	11,620	9,580	9.33	9.32	2,203,200	2,505,600	42,048	36,600	4,781	52,980	5,806	53,964	91	88	4,650	5,750	3,780	4,510	10,950	9,600	7.57	7.65	2,044,800	1,814,400	47,991	59,344	2,125	23,286	2,039	23,444	146	130
04/21/2015	5,520	5,090	4,310	4,040	11,320	9,020	10.00	10.00	2,217,600	2,491,200	38,556	35,552	5,025	52,148	4,040	53,144	89	85	4,450	5,010	3,590	4,010	10,870	10,800	9.26	8.40	2,016,000	1,756,800	45,927	51,707	2,753	30,169	2,609	29,996	130	122
04/22/2015	5,820	4,730	4,600	3,770	10,330	9,040	10.00	10.00	2,217,600	2,534,400	40,651	33,038	1,022	11,607	840	11,398	86	87	5,500	5,460	4,430	4,350	11,300	8,560	7.91	8.95	1,944,000	1,742,400	56,764	56,351	6,128	65,019			136	128
04/23/2015	5,930	4,970	4,750	3,990	8,590	10,100	9.97	10.00	2,174,400	2,491,200	41,420	34,714	3,189	40,551	3,151	40,628	88	89	6,040	5,210	4,720	4,030	11,010	7,070	10.00	7.37	2,188,800	1,814,400	62,337	53,771					136	136
04/24/2015	4,840	4,850	3,880	3,890	11,530	9,020	9.01	9.78	2,318,400	2,592,000	33,806	33,876					83	85	5,240	5,240	4,160	4,200	11,290	8,240	9.42	8.03	2,116,800	1,886,400	54,081	54,081	3,770	40,613			137	115
04/25/2015	5,330	4,970	4,440	4,050	9,090	11,340	8.56	8.68	2,289,600	2,563,200	37,229	34,714					84	95	5,670	4,690	4,470	3,670	10,850	7,760	8.95	7.86	2,145,600	1,900,800	58,519	48,404	3,669	40,546			88	98
04/26/2015	6,060	5,370	4,780	4,210	9,280	12,000	8.51	7.48	2,246,400	2,577,600	42,328	37,508					78	84	5,720	4,270	4,420	3,320	11,130	7,160	9.17	7.50	2,217,600	1,843,200	59,035	44,070	3,766	40,568			96	101
04/27/2015	5,470	5,020	4,330	3,940	17,100	9,020	8.40	9.63	2,232,000	2,606,400	38,207	35,063					90	90	5,880	3,960	4,610	3,140	12,390	7,130	9.50	7.35	2,116,800	1,857,600	60,686	40,870	13,146	139,064			128	131
04/28/2015	5,910	5,510	4,640	4,310	11,700	9,720	8.40	9.50	2,145,600	2,635,200	41,280	38,486	4,103	40,680	3,273	40,376	85	84	5,760	3,720	4,530	2,920	11,310	5,720	9.68	7.17	2,232,000	1,857,600	59,448	38,393	3,849	40,390			123	105
04/29/2015	6,200	5,310	4,870	4,180	13,630	10,030	8.17	9.08	2,232,000	2,592,000	43,305	37,089	1,016	13,207	1,413	13,664	89	94	5,550	3,100	4,280	2,440	14,020	6,370	9.78	6.88	2,289,600	1,886,400	57,280	31,994					139	113
04/30/2015	6,610	5,700	5,160	4,500	11,360	9,400	8.13	8.88	2,232,000	2,548,800	46,169	39,813	4,359	51,163	4,681	52,706	92	81	6,330	8,250	3,720	7,440	10,840	10,540	8.38	6.62	2,217,600	1,886,400	65,330	85,146					123	82
MMAVG																																				
Min.	4,840	2,120	3,850	770	6,850	3,060	8	7	2,016,000	2,476,800	33,806	14,808	306	5,027	0	0	69	68	2,870	3,100	1,860	2,030	7,450	5,720	8	7	1,944,000	1,742,400	29,621	31,994	1,559	16,700	932	12,000	83	82
Max.	8,710	6,050	7,110	4,590	17,420	12,900	10	10	2,851,200	3,110,400	60,837	42,258	11,156	118,375	5,806	54,414	102	97	6,330	8,250	4,720	7,440	14,020	12,140	10	10	2,851,200	2,606,400	65,330	85,146	13,146	139,064	5,367	64,966	146	136
Total									65,361,600	80,020,800	1,232,598	984,429	81,995	950,449	40,300	502,960											71,150,400	59,731,200	1,348,921	1,434,893	67,598	789,867	46,100	534,453		
Average	6,085	4,698	4,748	3,638	10,859	8,250	10	10	2,253,848	2,667,360	42,503	32,814	3,727	43,202	2,371	29,586	84	81	4,357	4,634	3,372	3,647	10,031	9,345	9	8	2,371,680	1,991,040	44,964	47,830	3,755	43,882	2,881	33,403	116	113

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
05/01/2015	10.43	14.62	7.68	0.00	0.325	0.000	47,126		55.0	12.0	7.74	90	487	7,829	42,362		7.47	4.5	121	102	99	10,525	8,612		
05/02/2015	9.33	13.21	6.21	0.00	0.331	0.000	39,185		55.0	11.9	7.69	134	466	10,427	36,260		7.46	3.5	145	113	156	11,283	12,139		
05/03/2015	8.85	11.89	5.96	0.00	0.305	0.000	310		49.0	12.0	7.64	300	409	22,143	30,188		7.63	4.5	137	108	179	10,112	13,212		
05/04/2015	8.67	10.80	5.45	0.00	0.318	0.000	55,673		75.0	12.6	7.56	324	672	23,428	48,591		7.64	4.5	151	95	198	10,918	14,317		
05/05/2015	8.79	12.20	6.19	0.00	0.291	0.000	44,071		75.0	12.7	7.57	300	612	21,993	44,865		7.47	3.0	118	90	176	8,650	12,902		
05/06/2015	8.93	12.84	5.75	0.00	0.310	0.000	49,901		69.0	12.8	7.53	402	600	29,939	44,686		7.32	1.4	119	97	138	8,863	10,278		
05/07/2015	8.68	11.80	5.36	0.00	0.412	0.000	61,191		78.0	14.1	7.59	372	660	26,930	47,778		7.42	1.4	141	119	185	10,207	13,392		
05/08/2015	8.48	12.49	5.27	0.00	0.415	0.000	66,103		77.0	14.7	7.63	354	743	25,036	52,547		7.24	7.0	174	136	186	12,306	13,155		
05/09/2015	7.60	10.73	4.89	0.00	0.445	0.000	22,234		50.0	12.5	7.60	318	465	20,156	29,474		7.24	5.5	164	128	179	10,395	11,346		
05/10/2015	7.04	11.59	4.73	0.00	0.462	0.000			85.0	12.0	7.59	288	391	16,910	22,957		7.38	4.0	154	132	198	9,042	11,625		
05/11/2015	7.58	10.90	4.25	0.01	0.436	0.000	53,283		70.0	14.5	7.53	354	544	22,379	34,390		7.38	26.0	325	283	282	20,546	17,827		
05/12/2015	8.73	23.51	4.36	0.10	0.421	0.160	77,234		77.0	14.6	7.54	300	772	21,842	56,208		7.46	6.5	215	182	258	15,654	18,785		
05/13/2015	8.24	12.08	5.31	0.00	0.415	0.000	64,700		57.0	15.3	7.51	363	784	24,946	53,878		7.48	15.0	284	237	222	19,517	15,256		
05/14/2015	7.96	11.13	4.77	0.00	0.399	0.000	62,856		60.0	15.5	7.66	386	728	25,625	48,329		7.43	10.0	320	262	282	21,244	18,721		
05/15/2015	8.27	11.50	4.31	0.00	0.365	0.000	53,464		62.0	15.7	7.60	228	628	15,726	43,314		7.40	7.0	218	181	153	15,036	10,553		
05/16/2015	7.12	10.80	4.14	0.00	0.368	0.000	28,863		64.0	15.6	6.67	153	312	9,085	18,527		6.45	8.0	218	172	128	12,945	7,601		
05/17/2015	6.58	9.44	3.59	0.00	0.396	0.000			62.0	15.7	7.72	240	308	13,171	16,902		7.51	6.5	201	163	206	11,030	11,305		
05/18/2015	6.71	10.80	3.68	0.10	0.397	0.000	54,869		55.0	14.7	7.67	444	890	24,847	49,806		7.47	11.0	282	229	276	15,781	15,445		
05/19/2015	7.55	11.27	3.59	0.10	0.301	0.000	66,030		55.0	15.6	7.62	389	682	24,494	42,943		7.49	5.5	186	157	206	11,712	12,971		
05/20/2015	7.56	10.93	3.67	0.00	0.258	0.000	69,976		60.0	15.5	7.52	300	770	18,915	48,549		7.25	14.0	242	200	252	15,258	15,889		
05/21/2015	7.42	10.84	2.45	0.00	0.354	0.000	88,445		59.0	15.1	7.68	420	1096	25,991	67,824		7.37	16.0	302	261	288	18,689	17,822		
05/22/2015	7.41	11.10	3.85	0.00	0.353	0.000	92,019		67.0	15.3	7.60	930	1105	57,473	68,288		7.40	16.0	327	285	315	20,208	19,467		
05/23/2015	6.22	9.43	3.53	0.00	0.356	0.000	36,859		57.0	15.1	7.60	525	808	27,234	41,915		7.30	7.5	209	182	293	10,842	15,199		
05/24/2015	5.94	7.53	3.12	0.00	0.349	0.000			74.0	15.4	7.50	690	490	34,182	24,274		7.20	6.0	162	146	228	8,025	11,295		
05/25/2015	5.73	9.37	3.02	0.00	0.376	0.000	5,717		71.0	14.6	7.37	407	618	19,450	29,533		7.35	7.5	199	162	210	9,510	10,036		
05/26/2015	6.65	10.25	3.15	0.00	0.563	0.000	60,241		78.0	16.2	7.62	390	1422	21,630	78,866		7.38	25.0	483	422	314	26,788	17,415		
05/27/2015	6.96	10.02	3.84	0.00	0.688	0.000	55,122		81.0	16.8	7.57	438	964	25,424	55,957		7.35	40.0	502	434	360	29,139	20,897		
05/28/2015	9.12	28.21	4.74	0.00	0.353	0.613	63,362		80.0	18.0	7.53	390	1312	29,664	99,792		7.32	45.0	774	632	345	58,871	26,241		
05/29/2015	8.28	11.19	4.37	0.00	0.317	0.000	62,338		75.0	18.2	7.62	123	1055	8,494	72,853		7.15	40.0	802		161	55,382	11,118		
05/30/2015	6.52	9.60	3.79	0.50	0.296	0.000	30,647		80.0	17.9	7.60	975	885	53,017	48,123		7.20	17.0	394	317	324	21,424	17,618		
05/31/2015	6.57	12.73	3.64	0.50	0.290	0.000	4,128		72.0	16.6	7.58	330	481	18,082	26,356		7.45	28.0	484	394	324	26,520	17,753		
MMAVG	9.13																								
Min.	5.7	7.5	2.5	0.0		0.000	310		49.0	11.9	6.67	90	308	7,829	16,902		6.45	1.4	118	90	99	8025	7601		
Max.	10.4	28.2	7.7	0.5		0.613	92,019		85.0	18.2	7.74	975	1422	57,473	99,792		7.64	45.0	802	632	360	58871	26241		
Total	239.9	374.8	138.7	1.3		0.773	1,415,947																		
Average	7.7	12.1	4.5	0.0		0.025	50,570		67.23	14.81	7.56	376	715	23434	46011		7.36	12.8	276	214	230	17627	14522		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
05/01/2015	7.13	0.20	10.0	6.0	5.2	870	452	24	12.8	7.7	4.5	<0.01	<0.01	<0.01							94.222	97.947	7.60	2.7	9.6		7.44	7.2	19.0	14.6					
05/02/2015	7.12	0.00	6.6	4.2	2.8	514	218	0	12.6	8.3	2.4	<0.01	<0.01	<0.01							97.910	98.584	7.59	2.3	7.4		7.51	5.0	10.8	7.0					
05/03/2015	7.09	0.00	6.0	4.4	4.2	443	310	0	13.1	8.7	2.1	<0.01	<0.01	<0.01							98.600	98.533	7.77	2.8	5.8		7.74	5.0	7.2	4.0					
05/04/2015	7.14	<0.10	6.4	3.8	4.9	463	354	4	13.8	8.1	2.8	<0.01	<0.01	<0.01							98.488	99.048	7.75	3.0	5.8		7.72	5.5	9.0	5.8					
05/05/2015	7.15	<0.10	5.2	9.2	5.2	381	381	0	13.9	8.5	3.0	<0.01	<0.01	<0.01		0.20	15	0.31	23		98.267	99.150	7.53	4.0	5.6		7.34	6.8	8.8	5.2	40.00	<50.00	<0.50	20.00	<0.20
05/06/2015	6.95	<0.10	11.8	6.0	5.7	879	425	2	14.3	8.6	2.5	<0.01	<0.01	<0.01							98.582	98.033					7.27	5.1	9.8	5.2					
05/07/2015	6.87	<0.10	9.6	7.0	6.5	695	471	2	14.9	8.1	3.2	<0.01	<0.01	<0.01							98.253	98.545	7.66	3.5	5.8		7.58	5.6	10.0	7.0					
05/08/2015	7.06	0.20	7.6	4.5	6.1	537	431	15	15.5	7.2	4.1	<0.01	<0.01	<0.01							98.277	98.977	7.59	3.5	6.3		7.47	7.4	24.1	16.8					
05/09/2015	7.04	<0.10	6.7	4.8	3.6	425	228	0	14.7	8.1	7.2	<0.01	<0.01	<0.01							98.868	98.559	7.61	3.1	5.9		7.54	6.3	31.7	21.9					
05/10/2015	7.05	<0.10	7.6	4.4	4.3	446	252	0	15.0	8.7	1.4	<0.01	<0.01	<0.01		0.24	14	0.16	9		98.507	98.056	7.53	2.7	7.2		7.56	6.9	24.0	16.0					
05/11/2015	7.07	<0.10	8.2	4.8	5.0	518	316	2	15.5	8.5	2.9	<0.01	<0.01	<0.01		0.25	16	0.12	8		98.588	98.493	7.55	3.1	6.4		7.41	6.6	16.8	11.4					
05/12/2015	6.87	<0.10	19.2	14.6	9.0	1,398	655	0	15.9	8.0	2.6	<0.01	<0.01	<0.01		0.36	26	0.29	21		97.000	97.513	7.51	4.1	7.0		7.34	7.2	23.0	17.2					
05/13/2015	6.83	<0.10	11.4	6.4	6.4	783	440	4	16.1	8.2	3.8	<0.01	<0.01	<0.01							98.237	98.546					7.39	4.6	10.2	6.8					
05/14/2015	6.99	<0.10	9.4	6.0	6.6	624	438	12	16.6	9.1	5.3	<0.01	<0.01	<0.01							98.290	98.709	7.72	5.4	8.6		7.70	4.9	10.0	6.0					
05/15/2015	7.13	<0.10	8.6	6.6	4.9	593	338	10	16.9	7.9	4.0	<0.01	<0.01	<0.01							97.851	98.631	7.35	4.0	10.2		7.60	5.0	12.4	9.2					
05/16/2015	7.10	0.01	11.6	8.4	3.4	689	202	5	16.2	7.1	8.0	<0.01	<0.01	<0.01							97.778	96.282	7.70	6.6	10.8		7.69	4.3	13.0	9.6					
05/17/2015	7.15	<0.01	8.4	4.6	5.1	461	280	0	16.9	7.2	5.0	<0.01	<0.01	<0.01		0.29	16	0.10	5		97.875	97.273	7.72	4.2	8.2		7.80	6.0	11.6	8.4					
05/18/2015	7.13	<0.10	8.2	5.6	6.2	459	347	0	16.5	7.9	2.4	<0.01	<0.01	<0.01		0.23	13	0.11	6		98.604	99.079	7.58	4.5	8.0		7.47	6.0	12.6	6.8					
05/19/2015	6.99	<0.10	7.4	5.0	5.8	466	365	5	16.5	8.9	2.8	<0.01	<0.01	<0.01		0.31	20	0.11	7		98.509	98.915	7.59	4.3	6.2		7.54	3.9	12.6	8.0					
05/20/2015	6.98	<0.10	7.8	3.8	6.6	492	416	9	17.1	8.1	4.6	<0.01	<0.01	<0.01							97.800	98.987	7.52	3.9	7.4		7.44	4.4	7.8	5.0					
05/21/2015	6.94	<0.10	8.0	5.4	6.6	495	408	11	17.3	8.4	2.9	<0.01	<0.01	<0.01							98.429	99.270	7.64	5.7	6.8		7.53	5.3	9.8	8.2					
05/22/2015	6.95	0.10	7.6	6.6	6.5	470	402	33	17.8	6.8	5.8	<0.01	<0.01	<0.01							99.301	99.312	7.60	6.7	7.0		7.60	7.8	24.2	17.6					
05/23/2015	7.00	<0.10	5.4	5.2	5.4	280	280	1	15.1	8.0	1.3	<0.01	<0.01	<0.01							98.971	99.332	7.70	5.5	5.2		7.60	6.0	12.6	9.6					
05/24/2015	7.00	<0.10	5.4	5.2	5.2	268	258	1	18.0	8.1	1.3	<0.01	<0.01	<0.01		0.28	14	0.18	9		99.246	98.898	7.60	6.1	5.0		7.50	4.4	6.4	5.4					
05/25/2015	7.00	<0.10	9.0	6.8	4.9	430	234	0	17.5	8.3	1.7	<0.01	<0.01	<0.01		0.33	16	0.14	7		98.796	98.544	7.67	3.9	6.6		7.74	3.1	9.4	6.8					
05/26/2015	6.92	<0.10	10.4	7.2	4.4	577	244	2	17.5	7.8	3.8	<0.01	<0.01	<0.01		0.62	34	0.52	29		98.872	99.269	7.62	7.8	14.4		7.60	2.8	10.6	7.8					
05/27/2015	7.02	<0.10	16.6	13.2	8.6	964	499	2	18.8	8.1	3.0	<0.01	<0.01	<0.01							98.037	98.278	7.62	21.6	60.6		7.63	4.1	12.8	8.6					
05/28/2015	7.01	<0.10	105.0	78.0	54.0	7,986	4,107	19	19.4	6.1	4.2	<0.01	<0.01	<0.01							86.154	91.997	7.75	43.2	124.0		7.57	6.9	18.0	15.2					
05/29/2015	6.98	0.50	10.2		4.3	704	297	132	20.1	5.9	5.0	<0.01	<0.01	<0.01							96.504	99.033	7.77	4.7	10.2		7.44	4.8	15.8						
05/30/2015	7.08	0.00	8.8	6.0	4.5	479	245	0	19.4	6.8	2.2	<0.01	<0.01	<0.01							99.538	99.006	7.80	6.1	9.0		7.60	6.3	16.2	10.2					
05/31/2015	7.10	<0.10	8.0	4.8	2.7	438	148	0	19.5	6.9	1.1	<0.01	<0.01	<0.01		0.19	10	0.19	10		99.182	98.337	7.73	3.4	6.2		7.54	5.1	14.4	10.0					
MMAVG														MMAVG		0.36																		
Min.	6.8	0.00	5	4	3	268	148	0	12.6	5.9	1			<0.01		0.19	10	0.10	5		86.15	92.00	7.4	2.3	5.0		7.3	2.8	6.4	4.0	40.0	<50	<0.50	20.0	<0.20
Max.	7.2	0.50	105	78	54	7986	4107	132	20.1	9.1	8			<0.01		0.62	34	0.52	29		99.54	99.33	7.8	43.2	124.0		7.8	7.8	31.7	21.9	40.0	<50	<0.50	20.0	<0.20
Total																																			
Average	7.0	<0.10	12	9	7	814	466	3	16.3	7.9	3			<0.01		0.30	18	0.20	12		97.86	98.36	7.6	6.3	13.4		7.5	5.5	14.0	9.7	40.0	<50	<0.50	20.0	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
05/01/2015	5,930	4,700	4,790	3,860	13,560	10,630	7.84	8.87	2,289,600	2,606,400	41,420	32,828	3,435	34,433	2,806	34,475	84	92	5,110	5,410	4,080	4,320	10,680	9,860	7.70	6.84	2,246,400	1,828,800	52,739	55,835	3,020	35,025	2,837	33,047	127	137
05/02/2015	6,490	5,750	5,030	4,510	11,370	9,250	8.18	9.14	2,160,000	1,800,000	45,331	40,162	3,413	35,991	2,790	36,168	71	70	5,640	5,510	4,350	4,320	10,430	9,620	7.47	8.36	2,304,000	2,606,400	58,209	56,867	3,094	35,998	2,989	36,128	105	109
05/03/2015	7,010	5,540	5,550	4,430	10,560	9,120	7.81	8.36	2,232,000	2,577,600	48,963	38,696	3,281	35,880	2,752	35,928	83	79	5,890	5,410	4,620	4,250	10,450	8,590	7.09	8.30	2,275,200	1,857,600	86,694	55,835			2,579	35,996	122	126
05/04/2015	6,680	5,420	5,310	4,310	9,830	8,550	7.93	8.42	2,246,400	2,592,000	46,658	37,857	4,617	56,322	4,016	56,322	93	92	5,630	5,070	4,320	4,060	10,130	6,660	6.88	8.67	2,145,600	1,843,200	58,106	52,326					137	122
05/05/2015	7,170	5,390	5,810	4,320	8,830	10,260	7.65	8.04	2,275,200	2,448,000	50,081	37,648	3,393	36,064	2,806	36,140	75	76	9,980	4,450	8,960	3,220	10,720	6,270	6.58	8.64	2,116,800	1,872,000	103,001	45,927	4,395	48,426			75	108
05/06/2015	6,450	5,250	5,090	4,230	10,200	9,200	7.88	8.31	2,275,200	2,577,600	45,052	36,670	2,070	24,335	5,422	65,138	78	82	5,780	3,870	4,420	3,060	10,810	6,680	7.09	8.77	2,160,000	1,800,000	59,654	39,941					126	103
05/07/2015	6,510	5,090	5,210	4,140	9,430	8,880	7.24	7.57	2,361,600	2,520,000	45,471	35,552	1,408	17,902			77	86	5,610	3,560	4,380	2,860	10,540	5,450	6.69	8.90	2,275,200	1,900,800	57,899	36,742	5,627	64,138			128	107
05/08/2015	6,810	5,790	5,390	4,660	10,900	9,140	6.92	7.47	2,390,400	2,534,400	47,566	40,442	3,044	35,965	2,595	35,280	73	74	6,120	3,590	4,730	2,830	11,250	5,860	6.54	8.76	2,232,000	1,857,600	63,163	37,051	4,851	55,004			114	92
05/09/2015	6,710	6,450	5,700	5,030	10,780	8,960	7.03	7.12	2,332,800	2,620,800	46,868	45,052	1,511	16,956	1,302	17,102	91	90	6,260	4,620	4,880	3,550	10,180	6,570	6.51	7.92	2,203,200	1,886,400	64,608	47,682	1,433	16,875			123	119
05/10/2015	6,640	5,610	5,270	4,530	10,920	9,220	7.38	7.25	2,347,200	2,462,400	46,379	39,184	1,529	16,892	1,262	16,647	86	93	6,280	4,330	4,840	3,350	10,460	5,860	6.70	8.64	1,987,200	1,814,400	64,814	44,689	1,466	16,800			124	120
05/11/2015	6,710	4,190	4,780	3,280	10,840	5,850	5.21	6.10	2,174,400	2,548,800	46,868	29,266	3,017	33,245	2,846	35,962	73	100	6,620	5,970	5,510	4,570	10,740	9,880	8.45	6.38	1,800,000	1,785,600	68,323	61,615	4,763	53,877			89	67
05/12/2015	7,220	5,940	5,660	4,700	10,550	9,830	7.08	6.84	2,145,600	2,534,400	50,430	41,489	5,422	60,252			75	77	5,710	3,880	4,360	2,880	11,340	5,410	6.55	8.69	1,756,800	1,828,800	58,931	40,045	5,541	60,511			119	101
05/13/2015	6,710	5,960	5,330	4,760	11,580	9,810	6.70	6.62	2,217,600	2,520,000	46,868	41,629	5,751	62,863			88	91	5,710	3,800	4,420	2,940	11,590	5,730	6.70	8.88	1,785,600	1,872,000	58,931	39,219	5,722	62,204			130	100
05/14/2015	6,850	6,160	5,410	4,940	10,800	10,620	6.93	6.82	2,376,000	2,577,600	47,846	43,026	5,486	60,712			75	78	5,320	3,290	4,050	2,530	11,740	5,030	6.91	9.03	1,728,000	1,843,200	54,906	33,955	5,422	60,367			113	97
05/15/2015	6,580	6,400	5,280	5,130	10,480	10,780	6.82	6.12	2,361,600	2,491,200	45,960	44,702	4,717	53,969	4,878	54,253	73	80	6,220	3,340	4,760	2,650	11,610	4,880	6.39	8.48	2,188,800	1,872,000	64,195	34,471					113	90
05/16/2015	6,410	6,030	5,000	4,770	9,870	9,920	6.75	6.07	2,188,800	2,505,600	44,772	42,118	1,466	17,125	1,383	16,778	80	91	5,730	5,620	4,300	4,330	9,940	8,310	6.37	6.78	2,246,400	1,857,600	59,138	58,003					115	116
05/17/2015	6,640	6,700	5,200	5,250	10,010	9,200	6.87	5.89	2,318,400	2,505,600	46,379	46,798	1,409	16,999	1,339	16,797	83	82	6,270	5,010	4,790	3,740	10,060	7,520	6.48	7.54	2,275,200	1,915,200	64,711	51,707	1,409	16,792			110	116
05/18/2015	6,730	6,750	5,370	5,410	8,410	10,760	5.70	5.40	2,347,200	2,520,000	47,007	47,147	4,148	54,000	4,495	54,000	64	71	6,540	5,030	5,020	3,840	10,490	5,950	8.10	6.50	2,217,600	1,843,200	67,498	51,913					77	80
05/19/2015	6,270	7,680	4,980	6,150	9,190	10,340	7.30	6.00	2,160,000	1,886,400	43,794	53,643	3,388	42,897	3,633	43,492	75	107	6,440	5,600	4,900	4,310	10,240	8,410	7.30	6.60	2,160,000	1,886,400	66,466	57,796	3,689	43,200			115	125
05/20/2015	6,190	6,570	4,850	5,280	8,490	10,330	7.00	6.10	2,304,000	2,491,200	43,236	45,890	3,342	43,157	3,684	43,311	76	84	6,190	5,280	4,730	4,030	9,660	7,940	7.60	6.50	2,217,600	1,872,000	63,885	54,494	3,476	43,143			110	110
05/21/2015	8,990	6,230	7,130	5,040	8,940	9,870	6.90	6.00	2,635,200	2,764,800	62,793	43,515	4,005	53,713	4,463	54,224	52	88	6,160	4,970	4,730	3,800	10,060	6,540	8.20	6.60	2,448,000	2,073,600	63,576	51,294	4,534	54,045			130	127
05/22/2015	6,410	6,620	5,070	5,250	7,040	9,770	7.20	5.80	2,664,000	2,793,600	44,772	46,239	2,396	34,323	2,633	34,264	101	68	6,600	4,610	5,040	3,550	10,020	6,890	8.20	6.40	2,520,000	2,116,800	68,117	47,579	2,523	30,104			111	113
05/23/2015	6,120	6,580	4,820	5,430	6,560	10,220	7.82	7.00	2,462,400	2,822,400	42,747	45,960					69	82	6,940	5,550	5,290	4,390	10,330	6,100	6.55	8.44	2,476,800	2,131,200	71,626	57,280					110	90
05/24/2015	5,600	6,940	4,490	5,570	5,690	10,850	7.86	6.96	2,649,600	2,808,000	39,115	48,474	870	17,025	1,459	16,609	75	85	6,640	4,260	5,050	3,260	10,260	5,350	6.54	8.69	2,476,800	2,131,200	68,530	43,966	1,440	16,823			119	108
05/25/2015	5,290	7,370	4,160	5,780	5,570	10,390	8.04	6.50	2,563,200	2,764,800	36,949	51,478					85	94	7,210	3,800	5,390	2,800	10,700	5,120	6.28	8.72	2,592,000	2,131,200	74,413	39,219					117	108
05/26/2015	5,550	8,000	4,440	6,450	7,010	11,310	7.85	5.48	2,620,800	2,764,800	38,765	55,878	4,730	59,946	2,152	29,845	69	84	7,300	3,680	5,970	2,330	11,940	5,040	6.03	8.93	2,534,400	2,088,000	75,341	37,980					107	95
05/27/2015	6,350	6,420	5,160	5,180	11,680	5,670	7.64	8.75	2,836,800	2,476,800	44,353	44,842	3,437	37,279			87	75	6,830	6,650	4,440	4,600	10,270	10,300	6.32	6.85	2,577,600	2,088,000	70,491	68,633	2,581	30,137	2,565	29,864	110	113
05/28/2015	6,290		5,120		13,030		6.79	9.86	3,038,400	1,915,200	43,934		5,584	53,841			64		7,560	6,720	5,950	5,200	10,120	11,030	5.80	6.10	2,620,800	2,131,200	78,025	69,355	2,467	29,910	2,765	30,059	98	98
05/29/2015	9,060		7,570		19,820		6.10	0.00	2,894,400		63,282		5,561	52,297			67		7,230	6,940	5,560	5,390	11,500	12,110	5.43	5.22	2,476,800	2,073,600	74,619	71,626	3,245	35,979	4,249	42,815	104	104
05/30/2015	7,470		5,950		16,140		5.86		2,620,800		52,176		4,970	36,920			87		6,910	7,680	5,160	5,820	12,390	11,700	5.03	3.97	2,476,800	2,073,600	71,316	79,263	3,765	36,436	1,633	16,733	107	107
05/31/2015	7,710		6,090		17,070		6.27	0.00	2,563,200		53,852		5,046	36,440			71		7,290	7,320	5,560	5,530	12,480	11,320	4.94	4.29	2,491,200	2,088,000	75,238	75,548	2,193	21,147	1,665	17,498	99	104
MMAVG																																				
Min.	5,290	4,190	4,160	3,280	5,570	5,670	5	0	2,145,600	1,800,000	36,949	29,266	870	16,892	1,262	16,609	52	68	5,110	3,290	4,050	2,330	9,660	4,880	5	4	1,728,000	1,785,600	52,739	33,955	1,409	16,792	1,633	16,733	75	67
Max.	9,060	8,000	7,570	6,450	19,820	11,310	8	10	3,038,400	2,822,400	63,282	55,878	5,751	62,863	5,422	65,138	101	107	9,980	7,680	8,960	5,820	12,480	12,110	8	9	2,620,800	2,606,400	103,001	79,263	5,722	64,138	4,249	42,815	137	137
Total									75,052,800	70,430,400	1,449,687	1,156,185	102,446	1,137,743	58,716	732,735											70,012,800	60,969,600	2,061,258	1,597,856	76,656	866,941	21,282	242,140		
Average	6,695	6,131	5,323	4,903	10,489	9,583	7	7	2,421,058	2,515,371	46,764	42,822	3,533	39,233	2,936	36,637	77	84	6,443	4,994	4,986	3,816	10,746	7,483	7	8	2,258,477	1,966,761	66,492	51,544	3,484	39,406	2,660	30,268	112	107

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
06/01/2015	9.51	21.10	7.87	2.10	0.286	1.496			48.0	16.5	7.59	179	309	14,197	24,508		7.44	11.0	244	202	147	19,352	11,659		
06/02/2015	14.44	18.39	6.72	0.10	0.284	0.751			46.0	14.7	7.70	207	352	24,929	42,391		7.54	3.1	197	104	119	23,725	14,331		
06/03/2015	8.73	11.21	5.55	0.00	0.392	0.000	58,901		60.0	16.3	7.57	330	475	24,027	34,584		7.56	3.5	120	96	116	8,737	8,446		
06/04/2015	7.95	10.62	5.08	0.00	0.386	0.000	88,872		58.0	16.6	7.70	408	712	27,052	47,208		7.50	6.0	168	138	195	11,139	12,929		
06/05/2015	8.32	11.48	4.76	0.00	0.362	0.000	81,344		62.0	17.2	7.60	141	1094	9,784	75,911		7.11	30.0	395		201	27,409	13,947		
06/06/2015	7.08	10.42	4.36	0.00	0.357	0.000	49,426		72.0	16.9	7.65	162	310	9,566	18,305		7.20	25.0	347		221	20,489	13,049		
06/07/2015	6.82	9.67	3.72	0.00	0.383	0.000			68.0	16.7	7.64	258	389	14,675	22,126		7.34	17.0	273	232	251	15,528	14,277		
06/08/2015	7.24	10.72	5.16	0.00	0.466	0.000	78,349		62.0	16.8	7.69	323	601	19,503	36,289		7.58	15.0	255	218	221	15,397	13,344		
06/09/2015	7.51	11.92	5.37	0.20	0.510	0.000	57,459		62.0	17.5	7.64	330	624	20,669	39,083		7.46	3.5	138	111	222	8,643	13,905		
06/10/2015	7.95	10.08	5.22	0.00	0.540	0.000	44,491		75.0	17.9	7.50	378	568	25,063	37,660		7.25	3.1	123	94	188	8,155	12,465		
06/11/2015	7.80	10.39	5.10	0.00	0.516	0.000	55,652		80.0	18.7	7.69	735	1069	47,813	69,541		7.24	21.0	136	110	195	8,847	12,685		
06/12/2015	7.95	10.52	4.79	0.00	0.461	0.000	65,780		84.0	19.0	7.77	87	1404	5,768	93,089		7.15	8.5	206	170	90	13,658	5,967		
06/13/2015	7.16	10.12	4.75	0.00	0.504	0.000	36,666		76.0	20.0	7.52	146	1184	8,718	70,702		7.04	8.5	195	164	147	11,644	8,778		
06/14/2015	6.76	11.22	4.01	0.40	0.518	0.000	3,038		78.5	17.2	7.59	390	992	21,988	55,927		7.36	7.0	190	158	209	10,712	11,783		
06/15/2015	9.70	18.28	5.44	0.50	0.488	0.071	4,241		55.0	18.0	7.57	240	904	19,416	73,132		7.38	2.6	130	101	137	10,517	11,083		
06/16/2015	8.44	10.65	5.44	0.00	0.467	0.000	38,242		62.0	17.8	7.69	270	840	19,005	59,127		7.49	1.8	121	105	176	8,517	12,389		
06/17/2015	8.33	10.78	5.61	0.00	0.644	0.000	23,871		66.0	18.8	7.60	330	1052	22,926	73,085		7.34	1.5	125	101	156	8,684	10,838		
06/18/2015	8.08	11.88	4.98	0.00	0.466	0.000	54,592		70.0	18.7	7.64	426	722	28,707	48,654		7.35	3.5	133	99	183	8,962	12,332		
06/19/2015	6.75	12.51	3.99	0.00	0.461	0.000	53,470		76.0	19.4	7.65	210	1733	11,822	97,559		7.39	35.0	543	461	290	30,568	16,326		
06/20/2015	6.11	14.95	2.85	0.60	0.461	0.000	11,420		77.0	19.0	7.67	143	1468	7,287	74,805		7.26	3.5	166	119	134	8,459	6,828		
06/21/2015	9.99	30.34	3.71	0.70	0.456	0.605			66.0	17.2	7.59	270	974	22,495	81,150		7.40	2.6	126	104	180	10,498	14,997		
06/22/2015	7.09	10.60	3.90	0.00	0.460	0.000	25,540		80.0	18.1	7.63	345	982	20,400	58,066		7.38	2.5	129	110	222	7,628	13,127		
06/23/2015	8.02	20.53	0.00	0.20	0.458	0.000	19,520		76.0	19.0							7.36	2.5	113	88	182	7,558	12,173		
06/24/2015	7.32	10.17	4.53	0.00	0.460	0.000	35,831		78.0	19.7	7.54	510	1682	31,135	102,684		7.33	2.0	121	98	147	7,387	8,974		
06/25/2015	7.02	9.71	4.08	0.00	0.455	0.000	41,674		78.0	19.4	7.61	1065	1705	62,352	99,822		7.14	2.5	152	115	203	8,899	11,885		
06/26/2015	6.48	10.12	2.90	0.00	0.469	0.000	48,117		70.0	19.3	7.60	1065	1746	57,556	94,359		7.10	4.0	172	144	215	9,295	11,619		
06/27/2015	5.68	21.95	3.94	1.20	0.475	0.136	20,810		68.0	17.9	7.40	660	1146	31,265	54,287		6.90	3.6	161	132	215	7,627	10,185		
06/28/2015	14.32	29.07	5.82	1.90	0.437	0.905			57.0	17.7	7.70	206	389	24,602	46,458		7.47	2.7	121	101	134	14,451	16,003		
06/29/2015	8.57	11.50	4.96	0.00	0.502	0.000	55,281		70.0	20.1	7.72	410	822	29,304	58,751		7.37	4.0	161	130	194	11,507	13,866		
06/30/2015	7.91	10.96	4.75	0.10	0.387	0.000	58,631		77.0	19.3	7.62	375	1062	24,739	70,060		7.39	2.5	154	128	183	10,159	12,072		
MMAVG	9.20																								
Min.	5.7	9.7	0.0	0.0		0.000	3,038		46.0	14.7	7.40	87	309	5,768	18,305		6.90	1.5	113	88	90	7387	5967		
Max.	14.4	30.3	7.9	2.1		1.496	88,872		84.0	20.1	7.77	1065	1746	62,352	102,684		7.58	35.0	543	461	290	30568	16326		
Total	245.0	411.9	139.4	8.0		3.964	1,111,218																		
Average	8.2	13.7	4.6	0.3		0.132	44,449		68.58	18.05	7.62	365	942	23681	60666		7.33	8.0	187	140	182	12472	12075		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
06/01/2015	7.05	<0.10	32.2	22.4	18.7	2,554	1,483	3	17.6	6.6	3.0	<0.01	<0.01	<0.01		0.44	35	0.96	76		89.553	89.579	7.57	2.0	6.0	4.8	7.43	3.9	12.0	8.8					
06/02/2015	6.86	1.00	23.8	17.6	15.9	2,866	1,915	470	15.0	5.8	17.0	<0.01	<0.01	<0.01		0.51	61	1.10	132		92.319	93.239	7.62	1.9	4.2	2.6	7.37	16.4	48.8	35.8	49.00	240.00	1.30	24.00	<0.20
06/03/2015	7.03	<0.10	5.8	3.6	4.0	422	291	0	16.7	7.5	2.4	<0.01	<0.01	<0.01							98.788	98.779	7.56	2.5	4.6	3.4	7.30	5.5	12.8	9.6					
06/04/2015	6.88	<0.10	9.8	7.0	3.6	650	239	1	17.3	7.9	3.3	<0.01	<0.01	<0.01							99.118	98.624	7.66	2.6	5.2	3.4	7.50	6.5	12.8	11.4					
06/05/2015	7.07	0.30	7.6		4.1	527	284	20	17.9	7.4	4.5	<0.01	<0.01	<0.01							97.092	99.305	7.64	3.4	8.4		7.33	5.2	11.8						
06/06/2015	7.05	0.00	7.8		2.4	461	142	0	18.0	6.9	2.9	<0.01	<0.01	<0.01							98.519	97.484	7.67	2.0	7.4		7.48	5.1	15.0						
06/07/2015	7.08	0.00	7.6	5.4	3.8	432	216	0	17.5	6.7	2.4	<0.01	<0.01	<0.01		0.16	9	0.17	10		98.527	98.046	7.75	2.1	7.6	5.6	7.56	3.6	15.8	11.8					
06/08/2015	7.15	<0.10	8.4	4.4	4.7	507	284	1	18.0	7.4	3.7	<0.01	<0.01	<0.01		0.22	13	0.15	9		98.545	98.602	7.66	2.4	6.0	4.2	7.40	4.5	12.0	8.8					
06/09/2015	7.04	<0.10	7.8	5.0	4.4	489	276	0	18.2	7.5	2.4	<0.01	<0.01	<0.01		0.24	15	0.14	9		98.667	98.750	7.59	3.8	8.6	6.4	7.37	6.8	14.0	9.6					
06/10/2015	7.03	<0.10	8.0	4.4	3.4	530	225	19	19.5	7.0	3.2	<0.01	<0.01	<0.01							99.101	98.592	7.64	4.7	7.0	5.0	7.40	5.9	14.8	9.4					
06/11/2015	6.93	<0.10	12.2	8.0	6.5	794	423	10	20.1	7.0	3.5	<0.01	<0.01	<0.01							99.116	98.859	7.54	9.9	14.4	10.4	7.33	7.9	13.4	9.4					
06/12/2015	6.93	<0.10	4.9	3.2	4.4	325	292	1	19.6	7.1	3.3	<0.01	<0.01	<0.01							94.943	99.651	7.57	8.4	9.9	7.8	7.35	4.4	10.8	7.5					
06/13/2015	6.95	<0.10	4.2	3.1	3.5	251	209	4	20.3	6.6	1.5	<0.01	<0.01	<0.01							97.603	99.645	7.50	7.6	9.5	8.0	7.13	5.7	10.2	7.2					
06/14/2015	6.92	<0.10	6.4	3.4	3.0	361	169	7	19.9	6.8	1.8	<0.01	<0.01	<0.01		0.30	17	0.13	7		99.231	99.355	7.55	3.8	9.0	7.0	7.15	3.6	15.8	11.2					
06/15/2015	6.88	0.10	11.8	8.6	2.7	955	218	16	19.5	5.8	4.5	<0.01	<0.01	<0.01		0.49	40	0.27	22		98.875	98.695	7.47	3.7	10.4	6.6	7.14	3.8	15.8	11.0					
06/16/2015	6.94	<0.10	8.8	5.8	3.2	619	225	7	19.0	7.4	3.7	<0.01	<0.01	<0.01		0.29	20	0.16	11		98.815	98.952	7.56	3.1	10.4	8.0	7.29	4.3	10.8	9.0					
06/17/2015	6.83	<0.10	7.2	5.6	4.5	500	313	6	19.6	7.3	3.2	<0.01	<0.01	<0.01							98.636	99.316	7.56	4.7	9.0	7.0	7.17	4.5	12.0	9.6					
06/18/2015	6.91	<0.10	6.4	4.2	4.5	431	303	14	20.3	7.3	3.3	<0.01	<0.01	<0.01							98.944	99.114	7.67	3.7	7.4	4.2	7.38	4.5	12.2	6.6		>50.00			
06/19/2015	6.97	0.10	9.0	5.6	2.5	507	141	7	20.9	6.0	3.9	<0.01	<0.01	<0.01							98.810	99.481	7.68	2.0	11.2	7.4	7.35	4.0	16.2	11.2					
06/20/2015	6.95	0.10	8.3	4.6	4.3	423	219	0	20.5	6.0	3.0	<0.01	<0.01	<0.01							96.993	99.435	7.66	4.2	8.2	6.1	7.33	4.8	13.8	8.7					
06/21/2015	6.95	<0.10	17.0	12.2	10.8	1,416	900	2	20.1	6.4	1.3	<0.01	<0.01	<0.01		0.36	30	1.10	92		96.000	98.255	7.58	3.5	7.6	6.0	7.43	4.4	14.6	10.8					
06/22/2015	7.02	<0.10	8.2	5.4	4.3	485	254	1	20.4	6.9	2.5	<0.01	<0.01	<0.01		0.44	26	0.28	17		98.754	99.165	7.54	4.7	8.4	6.4	7.24	4.2	13.0	9.0					
06/23/2015	6.82	<0.10	8.0	5.6	3.4	535	227	1	20.5	7.2	4.4	<0.01	<0.01	<0.01		0.48	32	0.25	17				7.42	4.6	6.6	5.4	7.17	5.7	15.4	11.2					
06/24/2015	6.87	<0.10	7.6	5.2	3.9	464	238	0	21.2	6.9	2.6	<0.01	<0.01	<0.01							99.235	99.548					7.04	5.0	14.4	10.4					
06/25/2015	6.63	<0.10	7.4	3.8	5.2	433	304	8	21.1	6.7	3.3	<0.01	<0.01	<0.01							99.512	99.566					7.19	9.4	19.6	12.8					
06/26/2015	6.79	<0.10	8.8	5.6	5.2	476	281	0	20.4	6.5	2.6	<0.01	<0.01	<0.01							99.512	99.496	7.40	7.1	10.2	8.4	7.30	10.4	20.0	15.0					
06/27/2015	6.80	<0.10	10.0	7.4	6.9	474	327	0	20.9	7.1	1.9	<0.01	<0.01	<0.01							98.955	99.127	7.40	5.8	9.8	7.6	7.20	12.2	23.4	17.4					
06/28/2015	6.70	0.70	20.6	14.4	10.8	2,460	1,290	40	18.4	6.5	7.1	<0.01	<0.01	<0.01		0.53	63	0.55	66		94.757	94.704	7.43	3.8	10.6	8.2	7.38	9.3	28.2	20.0					
06/29/2015	6.95	<0.10	10.0	6.4	4.2	715	300	8	18.9	7.2	3.9	<0.01	<0.01	<0.01		0.35	25	0.14	10		98.976	98.783	7.42	3.7	6.6	5.0	7.36	10.4	36.2	28.4					
06/30/2015	6.94	<0.10	15.8	13.6	3.8	1,042	251	4	19.6	7.0	3.2	<0.01	<0.01	<0.01		0.37	24	0.18	12		98.987	98.512					7.26	7.0	29.0	21.8					
MMAVG													MMAVG			0.37																			
Min.	6.6	0.00	4	3	2	251	141	0	15.0	5.8	1			<0.01		0.16	9	0.13	7		89.55	89.58	7.4	1.9	4.2	2.6	7.0	3.6	10.2	6.6	49.0	>50	1.30	24.0	<0.20
Max.	7.2	1.00	32	22	19	2866	1915	470	21.2	7.9	17			<0.01		0.53	63	1.10	132		99.51	99.65	7.8	9.9	14.4	10.4	7.6	16.4	48.8	35.8	49.0	240	1.30	24.0	<0.20
Total																																			
Average	6.9	<0.15	10	7	5	770	408	4	19.2	6.9	4			<0.01		0.37	29	0.40	35		97.82	98.30	7.6	4.1	8.3	6.2	7.3	6.3	17.2	12.6	49.0	>145	1.30	24.0	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
06/01/2015	8,100		6,550		12,720		6.44		2,649,600		56,576		4,060	36,976			85		5,880	6,610	4,610	5,100	12,400	10,890	5.50	5.09	2,491,200	2,131,200	60,686	68,220	5,147	50,276	3,791	39,014	109	110
06/02/2015	8,320		6,610		14,080		8.55		2,577,600		58,113		5,784	50,090			78		4,580	4,320	3,500	3,280	12,020	11,990	7.85	8.98	2,289,600	2,059,200	47,269	44,586	2,107	20,901	2,792	27,871	90	90
06/03/2015	8,250		6,540		13,230		9.19		2,894,400		57,624		5,339	50,208			79		5,350	6,190	4,190	4,810	11,600	11,350	7.02	7.61	2,664,000	2,203,200	86,694	63,885	4,866	50,386	4,914	50,359	105	105
06/04/2015	8,220		6,900		13,300		7.79		2,894,400		57,415		5,342	49,986			79		5,860	6,810	4,800	5,150	11,650	11,430	6.44	6.65	3,009,600	2,448,000	60,480	70,284	4,896	50,631	8,356	89,917	102	101
06/05/2015	8,130		6,300		13,490		7.71		2,880,000		56,786		1,185	16,750			86		6,620	7,030	5,050	5,410	11,700	11,000	6.31	6.51	2,664,000	2,260,800	68,323	72,555	4,852	50,747	6,295	67,130	104	104
06/06/2015	8,530		6,680		12,730		6.83		2,880,000		59,580		3,601	38,747			80		7,050	7,300	5,540	5,640	11,580	10,380	5.45	5.75	2,721,600	2,217,600	72,761	75,341	3,505	36,353	3,281	35,963	98	100
06/07/2015	8,210		6,410		12,790		7.26		2,923,200		57,345		3,613	33,936			77		7,010	7,070	5,410	5,390	11,880	10,310	5.69	5.50	2,793,600	2,160,000	72,348	72,968	3,589	36,228	3,108	36,145	101	103
06/08/2015	8,110		6,350		13,370		7.04		2,851,200		56,646		3,563	32,573			69		7,180	12,910	5,520	10,970	6,710	10,420	5.35	5.16	2,707,200	2,174,400	74,103	133,241	5,070	50,615	4,799	53,359	86	47
06/09/2015	8,130		6,390		11,870		7.33		3,686,400		56,786		3,931	36,619			74		3,640	3,750	2,960	2,990	17,410	17,510	7.44	7.88	2,635,200	1,785,600	37,568	38,703	5,159	49,546	4,796	49,361	69	77
06/10/2015	5,930		4,570		15,120	8,190	6.41		3,643,200	0	41,420		2,077	19,970			62		6,410	6,510	5,000	4,970	13,470	11,340	5.56	5.76	2,750,400	2,188,800	66,156	67,188	5,225	49,546	4,907	49,361	95	94
06/11/2015	6,410		4,940		14,350	7,380	5.73		3,801,600	0	44,772		2,229	19,520			64		6,580	6,860	5,100	5,230	13,220	10,960	5.16	5.70	2,736,000	2,188,800	67,911	70,800	5,149	50,669	7,232	80,029	94	80
06/12/2015	5,070		3,980		14,080	7,740	6.16		3,816,000		35,413		2,265	19,550			59		7,420	6,260	5,810	4,840	13,730	9,200	4.66	6.02	2,649,600	2,275,200	76,580	64,608	4,764	50,504	4,447	50,346	88	80
06/13/2015	6,350		5,040		11,840	11,360	6.85	0.00	4,089,600	403,200	44,353		4,577	41,260			61		6,580	7,720	5,150	6,040	10,180	11,040	5.22	4.62	2,822,400	2,289,600	67,911	79,676	3,147	36,037	3,298	35,560	78	86
06/14/2015	6,860		5,270		12,510	9,270	7.06	0.00	4,003,200	403,200	47,915		3,463	35,840			63		7,000	7,230	5,390	5,480	10,770	10,070	5.11	5.50	2,836,800	2,347,200	72,245	74,619	3,057	36,010	3,336	36,227	89	94
06/15/2015	6,560				12,630	9,770	6.08	0.00	4,075,200	388,800	45,820		3,978	39,045			61		7,410	6,830			9,840	10,280	5.42	5.02	2,793,600	2,289,600	76,477	70,491	4,731	50,312	4,790	50,738	76	69
06/16/2015	6,460		5,040		12,220	9,140	7.28	0.00	4,046,400	388,800	45,121		5,184	48,568			62		6,540	6,490	4,990	4,880	10,670	9,170	5.84	6.61	2,808,000	2,232,000	67,498	66,982	4,176	46,404	3,721	41,850	84	83
06/17/2015	6,240		4,900		12,830	9,700	7.18	0.00	4,089,600	388,800	43,585		5,402	50,560			61		6,860	6,340	5,220	4,820	8,790	10,090	6.00	6.80	2,865,600	2,260,800	70,800	65,434	4,534	50,502	4,742	50,630	82	79
06/18/2015	6,380		5,040		12,980	10,150	6.57	0.00	4,089,600	388,800	44,563		5,258	45,991			63		6,310	5,310	4,790	4,190	8,360	9,210	5.94	6.80	2,894,400	2,347,200	65,124	54,803	4,349	50,460	4,474	50,723	79	92
06/19/2015	7,620	4,230	5,290	2,700	12,720	7,520	5.60		2,880,000	1,800,000	53,224	29,545	5,826	50,195			53	53	6,150	5,490	3,790	3,250	10,030	9,090	6.60	5.60	2,836,800	2,304,000	63,473	56,661	4,521	50,474	4,260	50,599	68	66
06/20/2015	8,960	4,240	7,030	3,540	12,060	6,660	5.39	0.00	2,952,000	2,980,800	62,583	29,615	5,815	53,647			70	54	7,280	5,720	5,780	4,520	9,300	7,450	5.69	6.67	2,880,000	2,232,000	75,135	59,035	2,425	29,225	2,158	28,890	88	75
06/21/2015	9,100	4,070	7,040	2,440	13,780	5,790	5.28	6.72	2,894,400	3,081,600	63,561	28,428	3,747	35,219			68	57	6,510	4,750	5,050	3,730	10,480	9,290	6.50	5.31	2,880,000	2,232,000	67,188	49,024	2,978	36,109	2,517	36,058	74	74
06/22/2015	10,240	4,720	7,880	3,670	12,960	7,440	5.37	6.03	2,836,800	3,124,800	71,524	32,968	4,055	35,368	0	0	57	47	6,410	5,290	4,810	3,970	10,430	7,420	5.85	7.40	2,822,400	2,232,000	66,156	54,597	3,138	36,070	2,046	33,064	61	57
06/23/2015	9,330	3,960	7,160	3,170	12,670	4,950	2.86	6.65	2,822,400	3,198,240	65,168	27,660	11,016	94,277		0	61	56	5,640	4,500	4,700	3,910	9,170	7,190	6.08	7.50	2,998,080	2,275,200	58,209	46,443					71	76
06/24/2015	7,800	3,900	6,040	3,090	11,810	4,830	4.57	7.14	2,088,000	2,476,800	54,481	27,241	11,048	106,240			58	41	6,320	5,150	4,820	3,880	12,100	6,950	5.96	7.62	2,404,800	2,275,200	65,227	53,152					73	70
06/25/2015	8,230	3,870	6,260	3,070	12,830	7,130	4.16	7.00	2,145,600	2,476,800	57,484	27,031	6,507	60,816			56	52	6,640	5,240	5,050	4,040	11,830	6,530	5.96	7.99	2,332,800	2,318,400	68,530	54,081	4,827	48,113			66	55
06/26/2015	7,970	4,400	6,280	3,200	11,270	4,980	4.56	6.63	2,174,400	2,419,200	55,668	30,733	3,485	36,271			55	46	6,790	4,680	5,090	3,490	10,790	6,110	6.00	8.02	2,347,200	1,814,400	70,078	48,301	3,318	35,432			65	62
06/27/2015	8,030	4,390	6,020	3,400	10,340	7,300	4.71	5.76	2,131,200	2,448,000	56,088	30,663					56	50	6,790	4,410	5,000	3,320	10,300	5,670	5.95	8.17	2,304,000	1,742,400	70,078	45,515					69	68
06/28/2015	7,700	4,920	5,660	3,740	12,160	17,550	6.73	7.84	2,131,200	2,390,400	53,783	34,365	1,726	17,023	2,416	16,507	46	43	5,580	3,520	4,050	2,540	17,730	13,060	7.43	8.62	2,275,200	1,886,400	57,590	36,329	2,452	16,583	1,842	16,908	52	51
06/29/2015	7,180	4,510	4,110	2,320	11,950	8,320	6.10	6.90	2,116,800	2,419,200	50,151	31,501	3,048	35,350	3,917	36,128	47	47	6,840	4,510	5,110	880	12,620	7,750	6.70	8.40	2,304,000	1,756,800	70,594	46,547	3,125	36,379	3,419	36,569	54	55
06/30/2015	7,310	4,360	3,710	2,430	12,800	7,160	6.50	6.90	2,390,400	1,814,400	51,059	30,454	3,883	36,370	1,078	10,220	51	46	7,260	4,590	3,980	2,530	11,350	6,830	6.50	8.20	2,116,800	2,347,200	74,929	47,372	3,393	35,849	788	10,117	59	59
MMAVG																																				
Min.	5,070	3,870	3,710	2,320	10,340	4,830	3	0	2,088,000	0	35,413	27,031	1,185	16,750	0	0	46	41	3,640	3,520	2,960	880	6,710	5,670	5	5	2,116,800	1,742,400	37,568	36,329	2,107	16,583	788	10,117	52	47
Max.	10,240	4,920	7,880	3,740	15,120	17,550	9	8	4,089,600	3,198,240	71,524	34,365	11,048	106,240	3,917	36,128	86	57	7,420	12,910	5,810	10,970	17,730	17,510	8	9	3,009,600	2,448,000	76,580	133,241	5,225	50,747	8,356	89,917	109	110
Total									91,454,400	32,991,840	1,604,607	360,204	131,007	1,226,965	7,411	62,855											79,634,880	65,275,200	1,986,643	1,851,441	108,500	1,140,361	100,109	1,106,788		
Average	7,658	4,298	5,862	3,064	12,783	8,206	6	4	3,048,480	1,649,592	53,487	30,017	4,517	42,309	1,853	12,571	65	49	6,416	5,980	4,837	4,457	11,404	9,666	6	7	2,654,496	2,175,840	66,221	61,715	4,019	42,236	4,004	44,272	81	79

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
07/01/2015	9.43	26.48	4.86	0.50	0.458	0.234	19,988		63.0	18.6	7.64	359	720	28,234	56,625		7.25	3.5	161	131	194	12,662	15,257		
07/02/2015	7.88	10.41	4.46	0.00	0.365	0.000	74,595		74.0	18.8	7.70	690	1532	45,346	100,682		7.30	4.5	205	180	222	13,472	14,590		
07/03/2015	7.16	10.38	4.09	0.00	0.369	0.000	29,483		76.0	18.4	7.50	825	959	49,264	57,266		7.00	6.5	278	238	309	16,601	18,452		
07/04/2015	6.62	10.12	3.75	0.00	0.399	0.000	4,000		72.0	17.8	7.69	345	1020	19,048	56,315		7.05	8.0	328	229	185	18,109	10,214		
07/05/2015	6.51	9.63	3.69	0.00	0.401	0.000			89.0	17.3	7.60	750	980	40,720	53,208		7.16	4.0	192	156	239	10,424	12,976		
07/06/2015	7.08	10.85	4.17	0.00	0.404	0.000	27,062		85.0	19.4	7.59	855	1408	50,485	83,138		7.17	10.0	321	267	327	18,954	19,308		
07/07/2015	7.53	10.59	4.36	0.00	0.402	0.000	45,765		83.0	19.4	7.61	1035	1514	64,998	95,080		7.05	12.0	328	283	366	20,598	22,985		
07/08/2015	7.18	10.44	4.64	0.00	0.344	0.000	47,876		84.0	19.6	7.54	1065	1338	63,773	80,121		7.16	2.5	137	113	246	8,204	14,731		
07/09/2015	7.20	28.06	4.67	0.75	0.379	0.558	139,079		73.0	20.9	7.56	840	1074	50,440	64,492		7.19	1.5	150	118	210	9,007	12,610		
07/10/2015	9.81	10.74	4.64	0.00	0.364	0.000	65,760		77.0	20.1	7.75	125	783	10,227	64,061		7.21	2.0	97		165	7,936	13,500		
07/11/2015	6.84	9.39	3.35	0.00	0.378	0.000	31,111		82.0	19.8	7.64	122	846	6,960	48,261		7.07	2.0	121	100	180	6,903	10,268		
07/12/2015	5.90	9.25	3.02	0.00	0.391	0.000	8,774		86.0	19.1	7.58	375	1032	18,452	50,781		7.25	6.0	255	217	294	12,548	14,467		
07/13/2015	6.44	10.12	3.81	0.00	0.382	0.000	36,225		79.0	19.2	7.62	345	1380	18,530	74,119		7.27	3.2	159	128	207	8,540	11,118		
07/14/2015	7.13	10.92	4.34	0.10	0.377	0.000	49,266		75.0	19.1	7.73	360	1678	21,407	99,781		7.25	16.0	381	312	306	22,656	18,196		
07/15/2015	6.96	10.15	4.43	0.00	0.396	0.000	56,778		80.0	20.2	7.55	450	1326	26,121	76,970		7.15	8.5	306	256	318	17,762	18,459		
07/16/2015	6.71	10.15	3.87	0.00	0.364	0.000	40,743		70.0	20.3	7.63	420	1260	23,504	70,511		7.17	13.0	339	280	324	18,971	18,131		
07/17/2015	6.87	10.77	3.37	0.15	0.361	0.000	72,845		76.0	20.3	7.50	960	1980	55,004	113,446		7.00	10.5	337	273	396	19,309	22,689		
07/18/2015	5.99	11.03	3.42	0.00	0.346	0.000	15,902		73.0	19.8	7.50	945	2369	47,209	118,347		7.10	6.2	224	180	323	11,190	16,136		
07/19/2015	5.56	9.96	2.76	0.10	0.344	0.000	8,791		84.0	19.6	7.43	510	1868	23,649	86,620		7.13	2.0	149	111	225	6,909	10,433		
07/20/2015	6.09	11.73	6.45	0.00	0.764	0.000	43,197		82.0	20.1	7.63	555	1814	28,189	92,134										
07/21/2015	7.65	11.15	4.15	0.00	0.351	0.000	47,471		80.0	20.2	7.56	645	2048	41,152	130,664										
07/22/2015	6.72	12.15	4.16	0.20	0.298	0.000	30,345		79.0	20.4	7.54	630	1810	35,308	101,441		7.15	40.0	826	612	330	46,293	18,495		
07/23/2015	6.69	9.35	4.27	0.00	0.314	0.000	56,485		78.0	21.3	7.54	510	1668	28,455	93,065		7.31	5.5	196	154	177	10,936	9,876		
07/24/2015	6.60	9.58	4.37	0.00	0.419	0.000	29,246		79.0	21.7	7.55	330	2443	18,165	134,472		7.40	10.0	223	173	140	12,275	7,706		
07/25/2015	6.20	10.01	3.06	0.25	0.266	0.000	23,685		75.0	21.0	7.50	300	1941	15,512	100,365		7.50	10.0	279	212	198	14,427	10,238		
07/26/2015	5.30	7.28	3.02	0.00	0.361	0.000	2,871		63.0	21.0	7.61	1125	1740	49,727	76,911		7.16	3.5	137	113	212	6,056	9,371		
07/27/2015	6.13	9.90	3.38	0.00	0.306	0.000	61,035		85.0	20.7	7.65	1080	1906	55,214	97,443		7.26	2.0	134	109	221	6,851	11,298		
07/28/2015	6.37	9.25	4.05	0.00	1.006	0.000	44,516		87.0	21.5	7.61	1140	1724	60,563	91,589		7.19	6.0	221	186	219	11,741	11,635		
07/29/2015	6.28	8.05	3.57	0.00	0.650	0.000	41,476		91.0	21.9	7.58	810	1376	42,424	72,068		7.06	6.0	208	170	327	10,894	17,127		
07/30/2015	7.76	24.99	3.34	0.60	0.433	0.112	62,954		87.0	22.0	7.59	447	878	28,929	56,823		7.12	5.5	212	164	252	13,720	16,309		
07/31/2015	5.78	8.84	3.48	0.00	0.324	0.000	55,376		83.0	21.7	7.40	435	692	20,969	33,358		7.10	8.5	278	222	291	13,401	14,028		
MMAVG	9.22																								
Min.	5.3	7.3	2.8	0.0		0.000	2,871		63.0	17.3	7.40	122	692	6,960	33,358		7.00	1.5	97	100	140	6056	7706		
Max.	9.8	28.1	6.5	0.8		0.558	139,079		91.0	22.0	7.75	1140	2443	64,998	134,472		7.50	40.0	826	612	396	46293	22985		
Total	212.4	361.7	123.0	2.7		0.904	1,272,700																		
Average	6.9	11.7	4.0	0.1		0.029	42,423		79.03	20.04	7.58	625	1455	35096	81618		7.18	7.5	248	203	255	14046	14504		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
07/01/2015	6.92	<0.10	11.8	7.8	7.2	928	566	11	19.3	6.9	2.9	<0.01									97.994	98.361	7.36	7.5	16.4	12.4	7.37	9.3	34.8	23.2					
07/02/2015	6.90	<0.10	6.0	5.4	4.5	394	296	8	20.1	7.1	3.2	<0.01	<0.01	<0.01							99.348	99.608	7.50	5.3	4.8	4.0	7.40	12.5	26.6	21.8					
07/03/2015	7.00	<0.10	8.6	6.2	4.4	514	263	6	20.5	7.3	1.4	<0.01	<0.01	<0.01							99.467	99.103	7.50	4.8	8.4	7.2	7.40	13.4	28.6	22.0					
07/04/2015	7.00	<0.10	7.4	5.4	4.4	409	243	4	19.6	7.3	1.4	<0.01	<0.01	<0.01							98.725	99.275	7.45	4.1	7.1	5.3	7.39	9.4	27.2	20.2					
07/05/2015	6.92	<0.10	8.4	5.0	4.1	456	223	6	19.1	7.1	1.3	<0.01	<0.01	<0.01		0.38	21	0.15	8		99.453	99.143	7.48	3.4	10.0	6.4	7.32	9.3	26.8	19.2					
07/06/2015	6.91	<0.10	9.2	5.6	4.5	543	266	7	19.5	6.9	2.7	<0.01	<0.01	<0.01		0.42	25	0.15	9		99.474	99.347	7.52	3.9	7.4	4.2	7.38	9.5	26.8	20.4					
07/07/2015	7.01	<0.10	7.8	5.6	4.5	490	283	4	20.2	6.8	1.9	<0.01	<0.01	<0.01		0.40	25	0.17	11		99.565	99.485	7.51	4.2	9.0	6.6	7.50	8.8	25.4	21.0	50.00	53.00	<0.50	38.00	<0.20
07/08/2015	6.91	<0.10	6.2	4.4	4.0	371	240	2	20.8	6.7	2.4	<0.01	<0.01	<0.01							99.624	99.537					7.35	9.3	23.8	18.8					
07/09/2015	6.98	<0.10	12.4	8.0	9.6	745	576	5	20.0	6.6	1.6	<0.01	<0.01	<0.01							98.857	98.845	7.52	4.2	5.8	3.8	7.39	11.7	25.6	19.8					
07/10/2015	6.90	<0.10	7.2		4.1	589	335	9	21.1	6.5	2.0	<0.01	<0.01	<0.01							96.720	99.080	7.46	2.4	4.6		7.33	5.1	16.0						
07/11/2015	6.88	0.00	7.0	5.4	4.4	399	251	8	21.0	6.3	1.5	<0.01	<0.01	<0.01							96.393	99.173	7.39	2.6	6.4	4.6	7.38	4.2	17.4	15.2					
07/12/2015	6.87	0.00	6.8	3.6	3.3	335	162	10	21.3	6.5	0.9	<0.01	<0.01	<0.01		0.49	24	0.24	12		99.120	99.341	7.48	2.3	6.0	4.6	7.30	6.6	16.6	11.0					
07/13/2015	6.97	<0.10	7.6	4.0	4.0	408	215	6	21.9	7.0	1.8	<0.01	<0.01	<0.01		0.59	32	0.19	10		98.841	99.449	7.46	3.0	7.4	4.4	7.21	5.7	17.2	14.0					
07/14/2015	6.84	<0.10	5.2	3.4	3.5	309	208	7	21.6	6.8	1.8	<0.01	<0.01	<0.01		0.51	30	0.18	11		99.028	99.690	7.44	2.3	4.2	3.0	7.11	4.5	15.2	11.0					
07/15/2015	6.88	<0.10	7.4	5.2	3.3	430	192		22.4	6.7	1.6	<0.01	<0.01	<0.01							99.267	99.442	7.43	2.5	5.6	4.4	7.38	5.5	17.6	12.8					
07/16/2015	6.91	<0.10	7.0	4.6	3.9	392	218	18	22.3	6.6	1.7	<0.01	<0.01	<0.01							99.071	99.444	7.48	2.6	5.6	3.8	7.33	6.8	23.0	14.6					
07/17/2015	6.94	0.30	6.8	4.4	5.7	390	327	53	22.4	6.6	3.2	<0.01	<0.01	<0.01							99.406	99.657	7.50	3.4	5.4	3.4	7.40	6.9	25.4	18.0					
07/18/2015	7.10	<0.10	5.6	3.8	3.3	280	165	2	22.3	6.7	1.0	<0.01	<0.01	<0.01							99.651	99.764	7.50	3.2	6.2	3.6	7.40	6.9	23.8	16.8					
07/19/2015	7.00	<0.10	5.4	2.8	2.3	250	107	7	22.8	6.9	1.2	<0.01	<0.01	<0.01		0.50	23	0.16	7		99.549	99.711	7.35	2.0	5.8	3.8	7.32	4.7	23.2	16.0					
07/20/2015	6.90	<0.10	8.8	6.0	6.7	447	340	2	22.9	6.7	1.9	<0.01	<0.01	<0.01		0.54	27	0.86	44		98.793	99.515	7.30	2.0	5.4	2.2	7.29	18.0	29.8	20.2					
07/21/2015	6.78	<0.10	17.6	9.6	8.7	1,123	555	10	22.3	6.3	4.6	<0.01	<0.01	<0.01		0.56	36	1.51	96		98.651	99.141	7.45	2.6	6.6	4.8	7.57	30.0	43.6	32.2					
07/22/2015	6.92	<0.10	17.0	14.2	12.0	953	673	7	23.0	6.2	4.7	<0.01	<0.01	<0.01							98.095	99.061	7.63	25.8	38.8	30.8	7.48	20.0	48.4	38.2					
07/23/2015	7.01	0.30	9.0	6.6	5.3	502	296	11	23.0	6.2	4.0	<0.01	<0.01	<0.01							98.961	99.460	7.68	5.2	8.8	6.8	7.70	13.5	36.6	28.4				19.00	
07/24/2015	7.02	0.20	29.0	22.8	13.2	1,596	727	71	23.1	6.3	2.2	<0.01	<0.01	<0.01							96.000	98.813		5.5	11.6	8.8		12.3	34.0	26.0					
07/25/2015	7.10	0.25	11.8	7.8	4.4	610	228	40	22.3	6.5	2.5	<0.01	<0.01	<0.01							98.533	99.392	7.62	15.2	103.0	79.0	7.63	11.7	38.0	27.0					
07/26/2015	7.65	0.10	6.8	5.0	4.5	301	199	137	22.0	6.6	3.0	<0.01	<0.01	<0.01		0.26	11	0.20	9		99.600	99.609	7.51	37.2	31.2	27.2	7.59	13.8	35.8	26.0					
07/27/2015	7.01	0.10	6.2	3.8	4.4	317	225	30	20.9	6.5	1.6	<0.01	<0.01	<0.01		0.23	12	0.13	7		99.593	99.675	7.55	14.3	16.0	12.8	7.54	11.3	31.8	22.8					
07/28/2015	7.06	<0.10	5.6	3.8	3.4	298	181	0	22.1	6.7	1.4	<0.01	<0.01	<0.01		0.23	12	0.14	7		99.702	99.675	7.45	12.5	13.4	11.8	7.48	6.2	26.4	19.6					
07/29/2015	7.00	0.10	6.0	4.6	3.9	314	204	0	22.7	6.5	1.2	<0.01	<0.01	<0.01							99.519	99.564	7.49	15.5	21.8	17.2	7.52	7.3	30.6	22.2					
07/30/2015	7.18	<0.10	15.8	10.6	12.5	1,023	809	3	23.2	6.5	1.9	<0.01	<0.01	<0.01							97.204	98.200	7.50	15.8	21.4	16.2	7.47	7.2	29.0	20.2					
07/31/2015	7.06	0.10	6.4	5.6	3.9	309	188	1	23.3	6.2	2.0	<0.01	<0.01	<0.01							99.103	99.075	7.40	30.9	42.6	34.6	7.80	8.1	37.4	29.8					
MMAVG														MMAVG		0.37																			
Min.	6.8	0.00	5	3	2	250	107	0	19.1	6.2	1			<0.01		0.23	11	0.13	7		96.00	98.20	7.3	2.0	4.2	2.2	7.1	4.2	15.2	11.0	50.0	53	<0.50	19.0	<0.20
Max.	7.7	0.30	29	23	13	1596	809	137	23.3	7.3	5			<0.01		0.59	36	1.51	96		99.70	99.76	7.7	37.2	103.0	79.0	7.8	30.0	48.4	38.2	50.0	53	<0.50	38.0	<0.20
Total																																			
Average	7.0	<0.11	9	6	5	530	315	7	21.6	6.7	2			<0.01		0.43	23	0.34	19		98.82	99.31	7.5	8.2	14.9	11.6	7.4	10.0	27.8	20.9	50.0	53	<0.50	28.5	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
07/01/2015	7,370	4,000	5,440	3,080	12,030	5,640	5.90	7.20	2,145,600	2,361,600	51,478	27,939	1,903	29,248	5,728	54,297	54	45	7,300	4,770	5,490	3,630	12,860	7,300	6.40	8.10	2,332,800	1,800,000	75,341	49,230	3,795	35,871	2,888	40,056	62	59
07/02/2015	7,610	3,380	4,740	2,530	12,380	5,340	6.00	7.10	2,232,000	2,332,800	53,154	23,608	3,712	36,189	2,062	37,123	46	44	6,830	4,630	3,660	2,900	11,820	6,840	6.10	7.90	2,304,000	1,742,400	70,491	47,785	1,209	11,752	2,408	34,276	37	76
07/03/2015	7,500	3,330	4,850	2,500	11,660	4,550	6.10	7.30	2,275,200	2,318,400	52,386	23,259	3,271	35,983	1,310	37,032	51	45	7,020	4,600	4,000	2,430	11,260	6,850	6.20	8.10	2,304,000	1,771,200	86,694	47,475	14,616	34,378	2,407	34,968	50	50
07/04/2015	7,810	3,130	5,850	2,480	12,290	4,440	6.06	7.47	2,275,200	2,390,400	54,551	21,862					53	48	6,450	4,300	4,760	3,270	10,260	5,530	6.29	8.29	2,390,400	1,713,600	66,569	44,379	2,426	25,839	1,460	25,550	62	58
07/05/2015	8,090	4,810	5,950	3,610	9,440	7,900	6.55	6.81	2,160,000	2,390,400	56,507	33,597	5,144	50,186			54	54	6,740	4,680	4,950	3,500	11,590	6,420	6.37	8.51	2,275,200	1,699,200	69,562	48,301	4,300	50,256			64	51
07/06/2015	7,610	5,590	5,580	4,240	10,830	9,030	6.49	6.28	2,203,200	2,390,400	53,154	39,045	2,839	36,057	2,394	36,330	55	52	6,650	4,420	4,850	3,300	10,530	6,530	6.33	8.41	2,304,000	1,872,000	68,633	45,618	1,488	13,560	988	13,475	60	57
07/07/2015	7,360	5,570	5,420	4,140	11,000	7,990	4.05	6.03	2,131,200	2,376,000	51,408	38,905	2,648	35,820	3,260	36,724	49	47	7,030	4,700	5,140	3,380	11,680	6,610	7.74	5.97	2,347,200	1,728,000	72,555	48,508	3,781	34,618	1,621	22,115	51	51
07/08/2015	7,630	5,790	5,650	4,410	11,970	8,460	5.25	5.37	2,030,400	2,361,600	53,294	40,442	4,147	39,794	2,784	36,048	51	48	7,040	4,810	5,210	3,570	11,590	6,380	7.15	5.42	2,304,000	1,771,200	72,658	49,643	3,695	34,118	763	11,341	53	54
07/09/2015	7,280	5,420	5,470	4,190	12,460	7,150	5.50	5.36	2,102,400	2,433,600	50,849	37,857	3,677	35,980	2,856	35,840	55	52	6,590	4,590	4,980	3,560	11,450	6,260	7.36	5.38	2,404,800	1,771,200	68,014	47,372	3,838	35,744	2,430	35,749	59	55
07/10/2015	6,800	5,570	4,450	4,310	12,480	8,660	6.53	6.76	2,145,600	2,347,200	47,496	38,905	3,594	36,821	2,651	37,128	53	50	5,890	4,210	4,500	3,200	12,760	9,400	7.64	6.12	2,289,600	1,756,800	60,789	43,450	3,620	34,713	2,392	34,697	58	59
07/11/2015	6,810	5,000	4,980	3,730	12,300	10,380	5.97	5.78	2,145,600	2,404,800	47,566	34,924					57	58	5,910	4,680	4,380	3,530	12,400	8,450	5.86	7.49	2,304,000	1,641,600	60,996	48,301	2,616	25,566	1,755	25,854	64	53
07/12/2015	7,540	5,470	4,460	4,030	10,190	8,800	5.98	5.73	2,116,800	2,376,000	52,665	38,207	5,122	49,929			57	59	6,240	3,810	4,550	2,830	10,300	6,260	5.95	7.50	2,332,800	1,728,000	64,401	39,322	5,158	49,872			64	68
07/13/2015	7,440	5,360	5,320	3,970	10,480	7,260	6.18	5.04	2,188,800	2,347,200	51,967	37,438	4,441	52,260			59	63	6,260	3,950	4,560	2,870	9,230	5,410	7.51	5.95	2,462,400	1,684,800	64,608	40,767	4,557	53,049			64	66
07/14/2015	7,100	6,290	5,140	4,610	11,290	9,220	6.11	5.51	2,016,000	2,361,600	49,592	43,934	11,164	70,826			56	57	6,240	4,380	4,610	3,270	9,450	6,850	6.09	7.44	2,318,400	1,584,000	64,401	45,205	5,609	69,481			51	48
07/15/2015	6,590	6,220	4,850	4,650	10,480	9,310	5.84	4.59	2,088,000	2,318,400	46,030	43,445	3,266	35,247	2,927	35,871	59	66	6,260	4,360	4,700	3,240	9,590	5,630	5.73	7.03	2,376,000	1,742,400	64,608	44,998	3,023	34,099	2,374	36,245	56	62
07/16/2015	6,580	6,050	4,770	4,550	10,370	8,160	5.71	5.00	2,016,000	2,376,000	45,960	42,258	4,363	46,668			62	63	6,560	4,250	4,920	3,210	10,220	6,290	5.67	7.20	2,448,000	1,742,400	67,704	43,863	4,471	47,111			56	64
07/17/2015	6,610	6,540	4,830	4,810	9,770	10,080	5.85	4.88	2,174,400	2,332,800	46,169	45,680					65	66	6,370	4,640	4,690	3,440	10,770	7,090	5.54	7.08	2,361,600	1,584,000	65,743	47,888					61	60
07/18/2015	7,090	6,640	4,940	3,680	10,270	10,300	5.60	4.20	2,044,800	2,318,400	49,522	46,379					54	54	6,940	4,660	3,870	2,630	11,210	7,820	4.90	6.50	2,390,400	2,390,400	71,626	48,095					48	54
07/19/2015	7,270	7,000	4,200	3,980	10,200	10,860	6.80	4.60	1,944,000	2,332,800	50,779	48,893	6,233	73,140			52	57	7,020	4,920	3,990	3,190	10,690	6,330	5.30	7.40	2,318,400	1,497,600	72,452	50,778	6,400	71,317			47	51
07/20/2015	6,000	6,510	4,360	4,740	10,290	10,120	6.77	4.50	1,972,800	2,347,200	41,909	45,471	4,601	49,614	4,203	46,572	60	66	6,490	4,430	4,790	3,220	11,050	8,450	5.49	7.42	2,304,000	1,555,200	66,982	45,721			2,871	46,152	59	59
07/21/2015	6,010	6,680	4,430	5,040	11,860	11,690	6.39	4.58	2,016,000	2,404,800	41,978	46,658	4,145	42,533	4,252	50,606	63	57		2,030		1,690	7,180	7,640	0.00	5.73		2,361,600		20,951							74
07/22/2015	7,280	8,000	5,390	5,890	10,500	11,470	4.89	2.92	2,131,200	2,390,400	50,849	55,878	4,358	51,505	4,046	50,476	65	65		6,890		5,360	8,250	13,090	0.00	3.10		2,635,200		71,110							61
07/23/2015	6,280	6,300	4,630	5,360	13,400	10,410	6.60	4.93	2,995,200	3,052,800	43,864	44,004	2,692	36,122	3,632	35,964	59	79		5,880		4,470	14,220	14,060	0.00	4.95		3,340,800		60,686				4,124	34,795		63
07/24/2015	5,410	7,750	3,890	5,670	5,430	12,190	7.50	5.98	3,081,600	2,980,800	37,787	54,132	2,621	36,730	3,825	36,069	57	67		5,960		4,570	9,360	13,350		6.13		3,499,200		61,512				2,538	21,710		64
07/25/2015	4,930	7,750	3,600	5,560	12,360	12,200	7.16	5.75	3,096,000	3,052,800	34,435	54,132			2,511	24,100	57	59		5,650		4,340	10,680	14,010	8.93	6.49	191,520	3,355,200		58,312				2,794	23,906		62
07/26/2015	4,410	8,850	3,320	7,600	6,280	8,770	7.73	5.67	3,110,400	2,995,200	30,803	61,815			2,452	24,098	54	57		4,710		3,150	13,630	14,020	8.81	6.53	187,200	3,384,000		48,611				2,762	23,640		76
07/27/2015	3,920	4,370	2,830	2,090	13,250	8,840	7.98	5.71	2,952,000	2,980,800	27,380	30,523			880	24,142	54	137		6,500		4,840	9,140	13,250	8.80	6.84	0	3,355,200		67,085				2,627	23,769		65
07/28/2015	3,730	8,940	2,750	6,540	3,770	13,150	7.50	5.76	2,995,200	3,124,800	26,053	62,444		3,207	5,519	50,473	62	64		6,150		4,560	10,500	13,560	8.62	6.87	0	3,340,800		63,473							62
07/29/2015	4,050	9,040	2,950	6,580	3,670	13,260	7.14	5.37	2,880,000	3,153,600	28,288	63,142			6,805	61,185	57	64		6,010		4,590	9,950	13,450		6.62	0	3,412,800		62,028							63
07/30/2015	4,210	9,040	3,180	6,670	6,490	12,530	6.36	5.45	2,289,600	3,024,000	29,406	63,142			7,821	71,584	59	75		6,360		4,840	10,930	13,940	9.01	6.26	0	3,384,000		65,640				6,177	50,437		69
07/31/2015	4,940	9,200	3,860	6,800	5,370	12,600	5.52	5.25	2,160,000	3,024,000	34,505	64,260			5,425	50,273	61	74		6,930		5,270	10,930	14,090	9.49	6.16	0	3,297,600		71,523				6,227	50,654		66
MMAVG																																				
Min.	3,730	3,130	2,750	2,090	3,670	4,440	4	3	1,944,000	2,318,400	26,053	21,862	1,903	3,207	880	24,098	46	44	5,890	2,030	3,660	1,690	7,180	5,410	0	3	0	1,497,600	60,789	20,951	1,209	11,752	763	11,341	37	48
Max.	8,090	9,200	5,950	7,600	13,400	13,260	8	7	3,110,400	3,153,600	56,507	64,260	11,164	73,140	7,821	71,584	65	137	7,300	6,930	5,490	5,360	14,220	14,090	9	9	2,462,400	3,499,200	75,341	71,523	14,616	71,317	6,227	50,654	64	76
Total									72,115,200	79,401,600	1,391,784	1,352,178	83,941	883,859	77,343	871,935											47,250,720	70,142,400	1,360,585	1,577,630	74,602	661,344	51,606	589,389		
Average	6,428	6,245	4,583	4,582	10,147	9,379	6	6	2,326,297	2,561,342	44,896	43,619	4,197	42,089	3,683	41,521	56	61	6,592	4,931	4,630	3,608	10,822	9,070	6	7	1,750,027	2,262,658	68,029	50,891	4,388	38,903	2,716	31,020	56	61

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
08/01/2015	5.25			0.10	0.295	0.173	8,494		78.0	21.4	7.50	380	524	16,638	22,943		7.10	3.0	128	102	161	5,604	7,049		
08/02/2015	4.82	8.16	2.39	0.00	0.300	0.000	475		82.0	20.9	7.66	294	407	11,818	16,361		7.24	3.0	127	92	171	5,105	6,874		
08/03/2015	5.15	9.24	2.29	0.40	0.327	0.000	26,265		79.0	20.5	7.61	1320	1564	56,695	67,175		7.25	3.0	141	110	218	6,056	9,363		
08/04/2015	6.80	31.20	2.38	0.70	0.351	0.270	15,613		80.0	20.9	7.51	420	790	23,819	44,802		7.30	2.7	146	111	218	8,280	12,363		
08/05/2015	5.20	9.07	3.01	0.00	0.299	0.000	28,683		79.0	21.1	7.64	555	1280	24,069	55,511		7.28	3.5	167	124	300	7,242	13,010		
08/06/2015	5.10	8.52	2.44	0.00	0.204	0.000	29,092		78.0	21.3	7.80	342	538	14,547	22,883		7.03	4.0	238	194	351	10,123	14,929		
08/07/2015	6.24	8.02	2.59	0.00	0.310	0.000	47,979		77.0	21.5	7.56	447	641	23,263	33,359		6.76	9.0	396		395	20,608	20,556		
08/08/2015	4.65	7.61	0.00	0.00	0.354	0.000	6,729		55.0	20.7	7.60	402	613	15,590	23,773		6.78	7.0	319		308	12,371	11,945		
08/09/2015	4.47	8.93	2.07	0.00	0.367	0.000			58.0	19.8	7.65	306	598	11,408	22,293		7.35	3.3	170	133	216	6,338	8,052		
08/10/2015	5.46	9.10	3.34	0.00	0.453	0.000	66,669		77.0	20.8	7.77	348	842	15,847	38,342		7.47	2.5	133	98	212	6,056	9,654		
08/11/2015	8.20	26.17	3.45	0.90	0.416	0.155	6,625		61.0	21.7	7.70	308	507	21,064	34,673		7.37	6.5	194	137	246	13,267	16,823		
08/12/2015	6.21	8.70	3.27	0.00	0.410	0.000	34,250		78.0	21.6	7.66	390	1140	20,199	59,042		7.23	2.6	125	100	239	6,474	12,378		
08/13/2015	5.99	9.64	3.55	0.00	0.306	0.000	41,072		76.0	21.3	7.66	375	800	18,734	39,965		7.06	3.5	193	155	270	9,642	13,488		
08/14/2015	5.91	10.27	3.18	0.00	0.323	0.000	33,544		78.0	21.7	7.90	189	942	9,316	46,431		7.39	5.0	299		144	14,738	7,098		
08/15/2015	6.23	25.24	2.33	0.13	0.296	0.000	14,397		80.0	21.5	7.53	446	854	23,173	44,372		7.44	3.0	278		288	14,444	14,964		
08/16/2015	4.57	7.94	2.28	0.00	0.349	0.000			81.0	20.9	7.71	258	333	9,833	12,692		7.53	4.5	141	110	137	5,374	5,222		
08/17/2015	6.15	10.65	2.81	0.00	0.306	0.000	18,276		84.0	21.6	7.56	450	988	23,081	50,676		7.54	9.5	171	141	164	8,771	8,412		
08/18/2015	5.32	11.15	3.86	0.00	0.278	0.000	42,255		85.0	21.7	7.62	374	621	16,594	27,553		7.32	75.0	1464	1114	510	64,956	22,628		
08/19/2015	5.81	8.72	3.12	0.00	0.352	0.000	43,091		82.0	22.0	7.60	414	657	20,061	31,835		7.42	60.0	930	722	363	45,064	17,589		
08/20/2015	5.73	9.37	3.18	0.00	0.357	0.000	32,617		80.0	22.2	7.57	750	616	35,841	29,438		7.20	150.0	3304	2476	1095	157,892	52,328		
08/21/2015	5.73	8.66	3.20	0.00	0.344	0.000	16,200		79.0	22.9	7.49	765	1078	36,558	51,516		6.99	40.0	899	718	540	42,962	25,806		
08/22/2015	5.23	9.33	2.23	0.00	0.338	0.000	9,947		68.0	23.5	7.55	960	1132	41,873	49,376		7.35	16.0	329	257		14,350			
08/23/2015	4.52	8.64	2.02	0.10	0.781	0.000			65.8	21.2	7.48	435	1045	16,398	39,393		7.44	9.0	173	141	147	6,522	5,541		
08/24/2015	5.27	8.87	2.55	0.00	0.581	0.000	21,973		79.0	22.1	7.57	570	1532	25,053	67,334		7.58	9.5	198	135	141	8,702	6,197		
08/25/2015	5.72	9.07	3.12	0.00	3.941	0.000	43,455		75.0	22.0	7.63	555	1352	26,476	64,497		7.20	55.0	1070	894	405	51,044	19,320		
08/26/2015	5.66	9.09	3.28	0.00	0.436	0.000	30,706		80.0	23.9	7.56	480	1210	22,658	57,117		7.36	20.0	311	262	240	14,681	11,329		
08/27/2015	5.74	8.99	3.07	0.00	0.384	0.000	29,873		78.0	23.7	7.72	525	1796	25,133	85,977		7.38	40.0	692	580	384	33,127	18,383		
08/28/2015	5.95	10.09	3.50	0.00	0.386	0.000	24,654		78.0	23.5	7.70	342	1509	16,971	74,881		7.35	25.0	347	298	189	17,219	9,379		
08/29/2015	5.32	10.06	2.98	0.00	0.436	0.000	12,324		70.0	23.0	7.60	342	998	15,174	44,280		7.40	25.0	296	252	165	13,133	7,321		
08/30/2015	4.77	6.59	2.02	0.00	0.331	0.000			74.0	23.0	7.45	330	972	13,128	38,668		7.57	15.0	245	210	195	9,747	7,757		
08/31/2015	4.84			0.00	0.358	0.000	30,298		82.0	23.4	7.32	435	1150	17,559	46,420		7.42	9.5	172	128	177	6,943	7,145		
MMAVG	9.17																								
Min.	4.5	6.6	0.0	0.0		0.000	475		55.0	19.8	7.32	189	333	9,316	12,692		6.76	2.5	125	92	137	5105	5222		
Max.	8.2	31.2	3.9	0.9		0.270	66,669		85.0	23.9	7.90	1320	1796	56,695	85,977		7.58	150.0	3304	2476	1095	157892	52328		
Total	172.0	317.1	79.5	2.3		0.598	715,556																		
Average	5.5	10.9	2.7	0.1		0.019	26,502		76.03	21.85	7.61	468	936	21567	43341		7.29	20.1	445	363	286	20866	13430		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
08/01/2015	6.90	<0.10	16.2	15.2	5.2	709	228	1	23.7	6.3	1.2	<0.01	<0.01	<0.01							98.632	96.908	7.30	201.0	1028.5	772.0	7.60	7.2	26.8	20.8					
08/02/2015	7.10	<0.10	6.8	4.8	3.1	273	125	0	24.0	6.9	1.0	<0.01	<0.01	<0.01		0.33	13	0.14	6		98.946	98.329	7.50	201.0	757.0	180.0	7.45	7.1	15.0	10.6					
08/03/2015	7.02	<0.10	7.0	4.4	3.7	301	159	25	23.5	6.8	1.5	<0.01	<0.01	<0.01		0.50	21	0.09	4		99.720	99.552	7.44	207.0	839.0	620.0	7.12	3.5	13.4	10.4					
08/04/2015	6.91	0.10	18.4	13.2	11.9	1,044	675	21	23.7	6.8	2.1	<0.01	<0.01	<0.01		0.79	45	0.87	49		97.167	97.671	7.41	41.0	83.0	61.0	7.08	4.6	17.8	9.0					
08/05/2015	6.97	0.30	6.6	3.4	3.5	286	152	60	23.7	6.7	2.0	<0.01	<0.01	<0.01							99.369	99.484	7.51	183.0	117.0	88.0	7.37	4.5	18.0	11.8					
08/06/2015	7.03	0.20	6.6	5.2	4.1	281	174	38	23.5	6.4	2.0	<0.01	<0.01	<0.01							98.801	98.773					7.36	5.3	16.6	11.2	70.00	150.00	1.30	49.00	<0.20
08/07/2015	7.18	0.20	9.0		5.3	468	276	21	23.4	6.2	2.8	<0.01	<0.01	<0.01							98.814	98.596	7.24	46.0	188.0		7.29	6.2	18.4						
08/08/2015	7.09	0.20	13.0		2.7	504	105	5	22.4	6.5	1.8	<0.01	<0.01	<0.01							99.328	97.879	7.35	43.0	223.5		7.22	2.7	18.0						
08/09/2015	6.94	0.10	9.0	4.0	2.3	336	86	7	22.2	6.0	1.9	<0.01	<0.01	<0.01		1.03	38	0.01	0		99.248	98.495	7.63	186.0	185.0	141.0	7.15	5.4	11.0	8.0					
08/10/2015	6.93	0.20	10.2	5.2	2.9	464	132	6	23.3	6.4	2.4	<0.01	<0.01	<0.01		1.30	59	0.05	2		99.167	98.789	7.65	147.0	101.0	72.0	7.11	3.5	12.0	8.2					
08/11/2015	6.77	0.20	19.4	12.0	8.1	1,327	554	21	22.9	6.2	2.9	<0.01	<0.01	<0.01		1.28	88	0.40	27		97.370	96.174	7.60	114.0	103.0	57.0	7.17	4.2	18.8	10.8					
08/12/2015	7.02	0.30	6.2	4.4	4.1	321	212	430	23.4	6.5	2.5	<0.01	<0.01	<0.01							98.949	99.456	7.62	177.0	86.0	63.0	7.34	3.4	10.4	7.8					
08/13/2015	7.05	0.30	7.8	5.8	4.9	390	245	22	23.9	6.6	2.4	<0.01	<0.01	<0.01							98.693	99.025	7.69	114.0	97.0	83.0	7.42	4.3	11.2	9.8					
08/14/2015	7.12	0.30	8.6		4.3	424	212	28	24.1	6.4	3.0	<0.01	<0.01	<0.01							97.725	99.087	7.29	48.0	91.4		7.20	2.8	11.6						
08/15/2015	6.86	0.00	6.2		4.1	322	213	20	23.8	6.0	1.4	<0.01	<0.01	<0.01							99.081	99.274	7.41	81.0	159.6		7.33	3.4	9.6						
08/16/2015	7.01	0.00	6.0	5.0	4.3	229	164	210	23.8	5.6	2.5	<0.01	<0.01	<0.01		0.64	24	0.14	5		98.333	98.198	7.54	162.0	152.0	121.0	7.17	3.6	8.2	4.8					
08/17/2015	6.89	0.20	9.2	7.4	5.4	472	277	32	24.1	5.9	3.1	<0.01	<0.01	<0.01		0.71	36	0.11	6		98.800	99.069	7.46	108.0	108.0	75.0	7.09	5.9	11.6	7.6		66.00		30.00	
08/18/2015	6.97	0.10	8.4	4.4	4.6	373	204	25	24.3	6.9	1.5	<0.01	<0.01	<0.01		0.55	24	0.21	9		98.770	98.647	7.61	135.0	556.0	422.0	7.23	4.5	11.0	6.0					
08/19/2015	7.05	0.10	6.6	4.0	4.7	320	228	44	24.9	6.9	2.2	<0.01	<0.01	<0.01							98.865	98.995	7.55	165.0	290.0	220.0	7.43	2.8	6.4	5.0					
08/20/2015	7.14	<0.10	6.4	5.2	3.9	306	186	28	25.2	6.2	1.4	<0.01	<0.01	<0.01							99.480	98.961	7.57	216.0	415.0	325.0	7.35	3.9	8.2	6.2					
08/21/2015	7.20	<0.10	5.5	3.7	3.7	263	177	10	25.0	5.9	1.5	<0.01	<0.01	<0.01							99.516	99.490	7.41	177.0	264.4	208.8	7.36	3.5	6.7	4.7					
08/22/2015	7.13	<0.10	5.8	3.2	3.4	253	148	240	25.0	6.2	1.7	<0.01	<0.01	<0.01							99.646	99.488	7.55	156.0	242.4	184.0	7.42	2.5	5.8	3.8					
08/23/2015	7.12	<0.10	5.2	3.6	2.8	196	106	2	24.9	5.7	1.4	<0.01	<0.01	<0.01		0.39	15	0.15	6		99.356	99.502	7.50	150.0	159.0	136.0	7.19	2.4	6.2	4.8					
08/24/2015	6.88	<0.10	6.0	3.0	2.7	264	119	1	24.8	6.6	1.7	<0.01	<0.01	<0.01		0.55	24	0.13	6		99.526	99.608	7.64	102.0	97.0	70.0	7.14	2.2	11.0	4.2					
08/25/2015	6.85	<0.10	7.4	4.8	2.8	353	134	14	24.4	6.3	1.4	<0.01	<0.01	<0.01		0.65	31	0.23	11		99.495	99.453	7.53	192.0	235.0	201.0	7.14	2.4	5.8	3.4					
08/26/2015	6.96	<0.10	5.0	3.0	3.2	236	151	11	24.9	6.5	1.7	<0.01	<0.01	<0.01							99.333	99.587	7.51	126.0	111.0	95.0	7.34	2.2	5.4	4.2					
08/27/2015	7.05	<0.10	5.6	3.8	2.8	268	134	7	25.0	6.4	1.5	<0.01	<0.01	<0.01							99.467	99.688	7.65	141.0	166.0	134.0	7.49	2.8	8.2	4.6					
08/28/2015	7.21	0.10		3.2	2.3		114	20	24.7	6.4	2.0	<0.01	<0.01	<0.01							99.327		7.68	50.0	98.0	83.2	7.61	2.3	7.8	5.0					
08/29/2015	7.20	<0.10	6.4	5.6	2.0	284	89	23	24.1	6.5	2.1	<0.01	<0.01	<0.01							99.415	99.359	7.50	50.0	103.0	84.8	7.30	2.0	7.2	6.0					
08/30/2015	7.03	<0.10	5.8	3.6	2.6	231	103	12	24.0	6.3	2.1	<0.01	<0.01	<0.01		0.48	19	0.12	5		99.212	99.403	7.62	129.0	132.0	112.0	7.55	2.5	7.0	5.4					
08/31/2015	7.09	<0.10	6.6	3.8	3.1	266	125	630	24.6	6.5	1.3	<0.01	<0.01	<0.01		0.70	28	0.09	4		99.287	99.426	7.48	138.0	112.0	90.0	7.28	3.7	10.8	7.6					
MMAVG														MMAVG		0.43																			
Min.	6.8	0.00	5	3	2	196	86	0	22.2	5.6	1			<0.01		0.33	13	0.01	0		97.17	96.17	7.2	41.0	83.0	57.0	7.1	2.0	5.4	3.4	70.0	66	1.30	30.0	<0.20
Max.	7.2	0.30	19	15	12	1327	675	630	25.2	6.9	3			<0.01		1.30	88	0.87	49		99.72	99.69	7.7	216.0	1028.5	772.0	7.6	7.2	26.8	20.8	70.0	150	1.30	49.0	<0.20
Total																																			
Average	7.0	<0.14	8	5	4	392	194	19	24.0	6.4	2			<0.01		0.71	33	0.20	10		98.99	98.88	7.5	132.9	243.3	180.7	7.3	3.8	11.5	7.5	70.0	108	1.30	39.5	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
08/01/2015	5,420	8,680	4,070	6,410	6,280	12,420	5.61	5.49	2,102,400	3,038,400	37,857	60,628			2,569	23,967	55	75		7,170		5,480	6,710	10,320	6.06	9.84	2,620,800	2,030,400		74,000			2,439	23,957		66
08/02/2015	5,500	10,030	4,170	7,350	5,280	12,390	6.19	5.83	2,131,200	3,081,600	38,416	70,057			2,476	23,937	58	72	2,270	7,360	1,840	5,580	2,590	9,230	10.00	5.26	3,052,800	2,361,600	23,428	75,961			1,984	24,331	49	65
08/03/2015	5,490	9,990	4,120	7,370	6,270	13,080	6.21	5.89	2,232,000	3,110,400	38,346	69,778			7,455	73,416	55	63	3,830	4,990	2,770	3,800	7,280	5,670	7.02	9.74	2,880,000	2,232,000	86,694	51,501			1,291	16,772	73	48
08/04/2015	8,170	8,730	6,130	6,430	10,550	11,580	5.20	6.40	2,260,800	3,096,000	57,065	60,977			9,522	97,910	59	70	4,250	4,730	3,270	3,550	7,790	5,980	8.60	7.31	2,923,200	2,289,600	43,863	48,817					59	57
08/05/2015	7,430	8,610	5,610	6,290	11,110	10,390	4.95	3.96	2,217,600	3,052,800	51,897	60,139	7,316	72,621	9,355	102,731	58	67	4,680	4,490	3,610	3,400	8,290	5,740	7.60	8.40	2,851,200	2,260,800	48,301	46,340					53	56
08/06/2015	7,540	8,710	5,510	6,190	10,940	10,350	4.68	5.29	2,332,800	3,153,600	52,665	60,837	3,489	35,798	3,130	35,944	57	61	5,440	4,560	4,040	3,270	9,800	6,420	8.03	7.57	2,764,800	2,275,200	56,145	47,063	1,305	15,967	848	15,847	52	55
08/07/2015	7,870	8,380	5,900	6,200	11,460	9,960	5.07	5.36	2,188,800	3,139,200	54,970	58,532	4,759	50,814	4,324	51,585	55	61	5,300	4,430	4,100	3,410	9,460	6,270	7.75	7.96	2,937,600	2,275,200	54,700	45,721	1,694	20,303	1,166	20,225	55	32
08/08/2015	7,240	7,800	5,250	5,620	10,390	8,220	5.20	4.92	2,260,800	3,067,200	50,570	54,481	1,798	20,358	1,841	20,723	57	73	4,530	3,700	4,030	2,690	9,460	5,390	7.52	7.60	2,894,400	2,232,000	46,753	38,187					68	65
08/09/2015	8,380	7,250	6,110	5,250	7,200	10,460	5.64	4.53	2,332,800	3,081,600	58,532	50,639					50	80	5,790	3,950	4,220	2,790	9,060	4,810	7.33	7.98	2,865,600	2,217,600	59,757	40,767					60	61
08/10/2015	6,830	8,470	5,120	6,260	8,210	10,480	5.52	4.60	2,188,800	3,096,000	47,706	59,161	5,081	53,161	4,243	52,341	56	70	5,970	3,700	4,600	2,800	10,930	4,510	8.06	7.28	2,851,200	2,232,000	61,615	38,187					60	60
08/11/2015	7,130	7,930	4,100	4,940	9,810	10,010	5.30	4.90	2,332,800	3,124,800	49,801	55,389	2,086	19,963	17,958	43,290	42	50	6,230	3,610	3,430	1,790	11,320	5,950	7.80	7.10	2,764,800	2,217,600	64,298	37,258	7,485	72,437			48	55
08/12/2015	7,080	7,960	3,590	5,370	12,610	8,850	4.70	5.00	2,246,400	3,110,400	49,452	55,599	4,837	52,440	6,343	93,429	54	75	5,750	4,010	3,270	2,190	10,650	6,330	7.20	7.60	2,764,800	2,217,600	59,344	41,386					61	57
08/13/2015	6,720	7,330	4,400	4,470	10,410	9,220	5.20	4.00	2,232,000	3,153,600	46,938	51,198	1,745	18,923	2,134	27,795	45	52	5,810	3,730	4,160	850	10,500	5,830	7.60	7.00	2,793,600	2,304,000	59,964	38,496	7,462	72,624			52	59
08/14/2015	6,960	6,460	4,600	4,130	9,780	9,670	5.40	5.20	2,217,600	2,592,000	48,614	45,121	7,407	70,825	6,184	71,844	43	53	6,250	3,760	4,860	750	11,650	6,230	7.70	6.90	2,664,000	2,044,800	64,505	38,806					48	59
08/15/2015	6,460	7,490	4,680	5,340	10,040	6,520	5.58	5.34	2,232,000	3,067,200	45,121	52,316					50	47	5,690	3,570	4,170	2,550	12,250	6,280	7.00	6.88	2,548,800	2,073,600	58,725	36,845					58	64
08/16/2015	6,970	6,030	5,120	4,130	6,410	8,810	5.85	4.97	2,145,600	2,620,800	48,684	42,118					46	63	6,170	3,650	4,580	2,670	12,380	4,150	6.92	6.96	2,721,600	2,073,600	63,679	37,671					57	60
08/17/2015	6,550	7,360	4,870	5,380	7,770	8,740	6.11	4.58	2,260,800	2,620,800	45,750	51,408	2,809	52,540	3,791	51,595	47	50	6,750	3,720	5,010	2,760	13,200	4,590	6.81	7.27	2,620,800	2,016,000	69,665	38,393					50	54
08/18/2015	5,900	7,020	4,390	5,050	10,740	9,660	5.61	5.50	2,304,000	2,606,400	41,210	49,033	6,277	71,788	5,509	70,950	49	56	3,490	4,120	2,540	3,030	10,690		6.48	8.18	1,540,800	1,252,800	36,019	42,521					54	56
08/19/2015	6,530	7,080	4,950	5,170	13,130	10,720	3.54	4.52	2,217,600	2,649,600	45,610	49,452	1,970	20,505	1,543	20,742	52	55	2,360	4,190	1,710	3,150	9,240	3,650	7.23	7.17	2,764,800	2,361,600	24,357	43,244	2,955	51,500	5,972	51,000	93	31
08/20/2015	8,480	7,940	6,580	6,210	11,820	10,640	2.67	3.53	2,318,400	2,606,400	59,231	55,459	4,964	51,490	4,459	51,020	57	59	4,190	2,320	3,040	1,810	10,420	3,910	6.67	6.94	2,016,000	2,361,600	43,244	23,944	1,426	20,653	1,610	21,058	62	65
08/21/2015	8,380	8,180	6,230	6,060	11,690	10,980	2.26	2.28	2,102,400	2,577,600	58,532	57,135	8,127	71,962	6,845	71,508	54	51	5,170	2,990	3,940	2,230	12,280	4,820	5.58	6.39	2,016,000	1,324,800	53,358	30,859					58	57
08/22/2015	8,170	8,400	6,020	6,220	16,080	12,870	3.57	3.60	2,232,000	2,592,000	57,065	58,672	2,402	20,733	2,032	20,918	61	62	5,280	3,200	3,730	2,270	12,220	7,850	5.98	6.53	1,972,800	1,382,400	54,494	33,026					64	63
08/23/2015	8,430	8,250	6,210	6,040	15,550	11,720	4.25	4.17	2,347,200	2,606,400	58,881	57,624					57	58	5,500	3,300	4,150	2,390	12,500	7,050	6.55	6.92	1,900,800	1,180,800	56,764	34,058					60	58
08/24/2015	8,060	8,070	5,810	6,580	10,970	9,710	5.03	4.68	2,419,200	2,505,600	56,297	56,367	6,428	56,057	4,789	51,342	57	61	5,190	3,020	3,900	2,220	11,970	3,910	6.99	7.32	2,116,800	1,512,000	53,565	31,169					62	63
08/25/2015	7,550	7,410	5,540	5,310	11,610	10,520	5.47	5.18	2,462,400	2,548,800	52,735	51,757	5,804	57,371	4,778	52,890	53	58	5,200	2,990	3,850	2,120	11,590	5,640	7.00	7.29	1,944,000	1,555,200	53,668	30,859	2,279	23,579	1,108	23,434	64	64
08/26/2015	7,720	7,850	5,830	5,840	11,430	10,480	3.87	4.41	2,304,000	2,448,000	53,922	54,830	6,794	68,931	6,025	66,134	58	59	5,590	3,240	4,260	2,470	12,180	5,690	6.41	6.91	1,944,000	1,454,400	57,693	33,439	1,245	12,012	653	12,067	64	68
08/27/2015	7,280	7,250	5,380	5,360	11,190	9,830	4.89	4.77	2,275,200	2,534,400	50,849	50,639	7,050	71,655	6,428	73,055	58	59	5,370	3,440	4,060	2,570	12,180	6,090	6.59	6.89	2,059,200	1,526,400	55,422	35,503	1,334	12,217	659	11,775	65	64
08/28/2015	7,590	7,260	5,600	5,350	10,120	9,820	4.95	4.92	2,304,000	2,520,000	53,014	50,709	6,971	71,602	5,830	70,817	54	58	5,520	3,530	4,240	2,650	11,090	6,930	6.44	6.80	2,030,400	1,512,000	56,971	36,432	1,188	11,750	756	11,995	67	65
08/29/2015	7,150	6,530	4,520	4,150	10,950	9,950	5.30	5.30	2,174,400	2,491,200	49,941	45,610	3,363	34,142	2,656	33,135	52	57	6,010	3,610	2,820	1,170	11,220	8,090	6.40	6.50	1,958,400	1,411,200	62,028	37,258					62	67
08/30/2015	7,090	7,040	4,290	4,890	9,940	8,130	5.80	5.40	2,131,200	2,548,800	49,522	49,173					56	57	6,250	3,780	3,330	1,570	10,850	2,010	6.60	6.70	1,944,000	1,382,400	64,505	39,012					61	61
08/31/2015	6,330	6,770	4,620	4,870	11,850	10,170	6.10	5.22	2,203,200	2,534,400	44,213	47,287	4,618	46,728	3,963	46,728	63	64	5,890	3,660	4,360	2,670	9,820	9,070	6.69	6.68	1,915,200	1,368,000	60,789	37,774	1,024	11,879	549	11,879	63	68
MMAVG																																				
Min.	5,420	6,030	3,590	4,130	5,280	6,520	2	2	2,102,400	2,448,000	37,857	42,118	1,745	18,923	1,543	20,723	42	47	2,270	2,320	1,710	750	2,590	2,010	6	5	1,540,800	1,180,800	23,428	23,944	1,024	11,750	549	11,775	48	31
Max.	8,480	10,030	6,580	7,370	16,080	13,080	6	6	2,462,400	3,153,600	59,231	70,057	8,127	72,621	17,958	102,731	63	80	6,750	7,360	5,010	5,580	13,200	10,320	10	10	3,052,800	2,361,600	69,665	75,961	7,485	72,624	5,972	51,000	93	68
Total									69,710,400	86,976,000	1,553,406	1,692,125	106,095	1,090,407	136,182	1,399,746											75,643,200	58,939,200	1,607,147	1,264,497	29,397	324,921	19,035	244,340		
Average	7,174	7,815	5,139	5,620	10,374	10,205	5	5	2,248,723	2,805,677	50,110	54,585	4,823	49,564	5,238	53,836	54	61	5,191	3,952	3,730	2,666	10,373	5,947	7	7	2,440,103	1,901,265	53,572	40,790	2,672	29,538	1,586	20,362	60	59

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Merchant Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
09/01/2015	5.00	8.36	0.00	0.00	0.374	0.000	32,492		77.0	22.3	7.54	390	1050	16,263	43,785		7.33	21.0	576	496	350	24,019	14,595		
09/02/2015	5.27	12.95	0.00	0.00	0.363	0.000	31,308		83.0	23.1	7.58	465	912	20,438	40,084		7.32	23.0	528	426	420	23,207	18,460		
09/03/2015	4.80	7.41	1.90	0.00	0.338	0.000	25,163		83.0	22.2	7.58	510	1056	20,416	42,274		7.31	1.8	137	120	270	5,484	10,809		
09/04/2015	4.66	8.31	2.01	0.00	0.355	0.000	23,502		70.0	22.5	7.70	1110	1616	43,139	62,805		7.30	11.5	330	277	308	12,825	11,970		
09/05/2015	3.99	5.85	1.89	0.00	0.323	0.000	3,234		77.0	21.9	7.60	960	1328	31,946	44,191		7.40	7.5	255	215	270	8,486	8,985		
09/06/2015	4.22	7.39	1.91	0.00	0.358	0.000			82.0	22.4	7.70	990	1053	34,843	37,060		7.60	2.2	130	116	161	4,575	5,666		
09/07/2015	4.54	7.63	1.96	0.00	0.358	0.000	8,000		81.0	21.3	7.58	375	808	14,199	30,594		7.65	1.2	142	112	152	5,377	5,755		
09/08/2015	5.31	7.82	2.96	0.00	0.344	0.000	44,473		88.0	23.0	7.56	630	1234	27,900	54,648		7.60	3.8	164	134	224	7,263	9,920		
09/09/2015	5.73	13.15	0.00	0.10	0.366	0.000	22,219		86.0	24.3	7.45	450	1130	21,505	54,001		7.25	28.0	532	450	348	25,423	16,630		
09/10/2015	6.66	29.50	4.01	1.60	0.368	0.771	38,345		69.0	24.6	7.49	282	588	15,664	32,660		7.52	9.0	191	155	150	10,609	8,332		
09/11/2015	10.51	17.16	2.07	0.10	0.396	0.000	26,207		65.0	22.4	7.70	615	832	53,907	72,928		7.40	3.0	149	124	191	13,060	16,742		
09/12/2015	5.01	9.08	2.12		0.380	0.000	17,199		72.0	22.7	7.63	870	738	36,352	30,836		7.49	6.0	164	121	140	6,852	5,850		
09/13/2015	6.21	28.70	2.23	0.50	0.519	0.238			75.0	22.7	7.57	240	946	12,430	48,995		7.55	1.2	108	78	108	5,593	5,593		
09/14/2015	6.37	9.69	3.54	0.00	0.211	0.000	34,537		62.0	23.5	7.70	315	760	16,735	40,376		7.66	2.0	128	105	147	6,800	7,809		
09/15/2015	6.18	9.27	3.45	0.00	0.336	0.000	48,041		70.0	23.3	7.37	405	786	20,874	40,511		7.28	7.0	222	175	282	11,442	14,535		
09/16/2015	5.98	9.25	3.25	0.00	0.358	0.000	52,200		79.0	24.8	7.65	300	748	14,962	37,305		7.19	27.0	566	461	375	28,228	18,702		
09/17/2015	5.87	9.73	3.22	0.00	0.328	0.000	47,235		78.0	23.8	7.64	330	762	16,155	37,304		7.18	28.0	576	474	435	28,199	21,296		
09/18/2015	5.97	10.15	3.22	0.00	0.361	0.000	34,926		79.0	23.8	7.88	99	1258	4,929	62,636		7.19	22.0	332		222	16,530	11,053		
09/19/2015	5.23	9.23	1.97	0.00	0.345	0.000	22,778		78.0	23.6	7.58	161	949	7,023	41,394		7.35	2.0	135		179	5,888	7,808		
09/20/2015	4.34	8.09	1.85	0.00	0.354	0.000			69.0	23.5	7.63	420	958	15,202	34,675		7.61	2.0	116	89	174	4,199	6,298		
09/21/2015	5.36	9.63	3.18	0.00	0.363	0.000	43,051		59.0	21.9	7.60	435	1170	19,446	52,302		7.54	5.0	156	133	192	6,974	8,583		
09/22/2015	5.82	10.06	2.74	0.00	0.336	0.000	66,627		58.0	23.8	7.55	360	1266	17,474	61,450		7.33	55.0	796	680	360	38,637	17,474		
09/23/2015	5.73	9.66	2.74	0.00	0.363	0.000	74,472		66.0	23.8	7.50	405	1184	19,354	56,581		7.46	4.0	137	109	204	6,547	9,749		
09/24/2015	5.74	10.06	2.79	0.00	0.379	0.000	68,222		66.0	22.9	7.56	555	1360	26,569	65,105		7.60	3.0	104	80	167	4,979	7,995		
09/25/2015	5.54	10.06	1.96	0.00	0.358	0.000	53,734		60.0	23.7	7.54	750	1010	34,653	46,666		7.50	305.0	133	100	149	6,145	6,884		
09/26/2015	4.47	9.73	1.60	0.00	0.364	0.000	50,252		74.1	22.4	7.65	1050	1305	39,144	48,650		7.54	6.0	152	126	152	5,667	5,667		
09/27/2015	4.44	9.20	1.59	0.00	0.345	0.000	3,106		71.4	22.0	7.73	375	1088	13,886	40,288		7.69	3.0	132	106	155	4,888	5,740		
09/28/2015	5.19	9.21	1.60	0.00	0.356	0.000	65,779		62.0	22.0	7.61	405	1332	17,530	57,655		7.50	6.0	188	158	198	8,138	8,570		
09/29/2015	4.93	30.36	2.13	1.20	0.371	0.274	55,350		70.0	21.3	7.36	735	1674	30,220	68,829		7.20	35.0	812	690	555	33,386	22,819		
09/30/2015	14.78	38.10	2.13	1.75	0.344	2.589	8,505		74.0	21.9	7.66	141	185	17,380	22,804		7.57	3.5	75	67	117	9,245	14,422		
MMAVG	9.19																								
Min.	4.0	5.9	0.0	0.0		0.000	3,106		58.0	21.3	7.36	99	185	4,929	22,804		7.18	1.2	75	67	108	4199	5593		
Max.	14.8	38.1	4.0	1.8		2.589	74,472		88.0	24.8	7.88	1110	1674	53,907	72,928		7.69	305.0	812	690	555	38637	22819		
Total	173.9	374.8	66.0	5.3		3.872	1,000,957																		
Average	5.8	12.5	2.2	0.2		0.129	37,072		72.78	22.91	7.60	504	1036	22685	46980		7.44	21.2	272	228	239	12622	11157		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
09/01/2015	6.98	<0.10	5.8	4.2	3.3	242	138	29	24.4	6.7	1.6	<0.01	<0.01	<0.01		0.95	40	0.17	7		99.154	99.448	7.48	141.0	168.0	144.0	7.10	4.0	12.2	9.0					
09/02/2015	6.88	0.10	6.8	3.2	4.3	299	189	10	24.4	6.8	2.0	<0.01	<0.01	<0.01							99.075	99.254	7.51	171.0	189.0	152.0	7.27	5.8	15.6	11.6					
09/03/2015	7.05	<0.10	5.4	3.8	4.4	216	176	7	24.8	6.4	1.7	<0.01	<0.01	<0.01							99.137	99.489	7.63	144.0	120.0	101.0	7.56	3.7	10.4	8.6					
09/04/2015	7.14	<0.10	7.0	4.6	4.1	272	159	15	24.4	6.5	1.2	<0.01	<0.01	<0.01							99.631	99.567	7.50	165.0	133.0	109.0	7.50	3.8	8.8	5.4	31.00	50.00	0.50	23.00	0.20
09/05/2015	7.10	<0.10	4.8	3.0	3.5	160	116	7	24.5	6.8	1.1	<0.01	<0.01	<0.01							99.635	99.639	7.50	177.0	143.0	116.5	7.50	3.6	5.6	4.2					
09/06/2015	7.10	<0.10	5.0	3.2	3.0	176	106	10	24.3	6.8	1.1	<0.01	<0.01	<0.01		0.98	34	0.10	4		99.697	99.525	7.60	156.0	121.5	99.0	7.40	4.0	6.6	5.4					
09/07/2015	6.90	<0.10	11.0	3.2	3.7	416	140	0	24.1	6.9	1.1	<0.01	<0.01	<0.01		1.13	43	0.09	3		99.013	98.639	7.66	135.0	109.0	85.0	7.34	3.2	9.4	6.6					
09/08/2015	6.88	0.10	7.6	4.4	3.2	337	142	7	24.6	6.6	1.6	<0.01	<0.01	<0.01		1.15	51	0.12	5		99.492	99.384	7.69	117.0	868.0	846.0	7.14	3.4	6.4	3.8					
09/09/2015	6.92	0.10	6.2	4.8	4.7	296	225	26	24.9	6.6	2.3	<0.01	<0.01	<0.01							98.956	99.451	7.46	126.0	178.0	152.0	7.24	4.1	14.6	11.0					
09/10/2015	6.98	0.10	7.4	4.6	4.4	411	244	10	25.2	6.0	1.7	<0.01	<0.01	<0.01							98.440	98.741	7.48	75.0	92.0	85.0	7.39	4.7	12.4	9.8					
09/11/2015	7.01	0.20	7.2	5.0	3.4	631	298	66	23.6	7.1	2.4	<0.01	<0.01	<0.01							99.447	99.135	7.50	87.0	83.0	66.0	7.30	6.5	13.4	10.0					
09/12/2015	7.30	<0.10	3.4	2.2	2.0	142	84	20	23.6	7.1	1.2	<0.01	<0.01	<0.01							99.770	99.539	7.37	96.0	105.2	80.0	7.28	4.2	16.9	13.0					
09/13/2015	6.95	0.10	10.8	6.2	7.5	559	388	11	23.2	6.4	1.3	<0.01	<0.01	<0.01		0.46	24	0.38	20		96.875	98.858	7.66	69.0	76.0	53.0	7.40	5.7	16.2	11.4					
09/14/2015	7.04	0.20	6.8	4.8	3.1	361	165	21	22.7	7.0	1.8	<0.01	<0.01	<0.01		0.34	18	0.12	6		99.016	99.105	7.60	84.0	47.0	35.0	7.39	3.1	8.8	7.2					
09/15/2015	7.14	<0.10	6.0	3.4	3.4	309	175	20	23.1	7.0	2.7	<0.01	<0.01	<0.01		0.37	19	0.14	7		99.160	99.237	7.42	117.0	75.0	53.0	7.30	3.4	9.2	7.2					
09/16/2015	6.97	0.10	7.6	4.2	4.2	379	209	26	23.8	6.8	1.9	<0.01	<0.01	<0.01							98.600	98.984	7.49	168.0	219.0	177.0	7.30	4.3	12.0	7.6					
09/17/2015	7.10	0.20	7.4	4.4	3.9	362	191	188	24.5	6.6	2.2	<0.01	<0.01	<0.01							98.818	99.029	7.46	201.0	240.0	190.0	7.39	3.3	9.4	6.2					
09/18/2015	7.11	0.10	4.2		2.3	209	115	40	24.9	5.4	1.8	<0.01	<0.01	<0.01							97.677	99.666	7.30	165.0	138.0		7.27	3.2	6.8						
09/19/2015	7.02	0.00	5.4		2.0	236	87	0	24.4	6.1	1.2	<0.01	<0.01	<0.01							98.758	99.431	7.40	120.0	125.0		7.31	3.6	11.2						
09/20/2015	6.97	0.00	7.4	3.6	2.3	268	83	53	24.5	5.8	0.9	<0.01	<0.01	<0.01		0.42	15	0.22	8		99.452	99.228	7.65	192.0	147.0	111.0	7.28	3.5	11.8	7.8					
09/21/2015	6.86	<0.10	7.6	4.8	3.9	340	174	6	23.5	6.9	1.4	<0.01	<0.01	<0.01		0.54	24	0.16	7		99.103	99.350	7.55	102.0	97.0	82.0	7.08	3.5	12.0	8.0					
09/22/2015	6.71	0.10	7.6	5.6	2.4	369	116	4	22.9	6.9	1.8	<0.01	<0.01	<0.01		0.46	22	0.13	6		99.333	99.400	7.38	204.0	354.0	294.0	7.12	4.3	11.4	8.6					
09/23/2015	6.88	0.20	7.8	5.2	3.6	373	172	56	23.2	7.0	2.2	<0.01	<0.01	<0.01							99.111	99.341	7.45	84.0	80.0	64.0	7.23	3.6	10.0	7.8					
09/24/2015	6.87	0.20	6.6	4.2	3.2	316	153	8	23.5	6.7	1.8	<0.01	<0.01	<0.01							99.423	99.515	7.58	78.0	84.0	65.0	7.39	4.0	12.8	8.8					
09/25/2015	7.10	0.10	4.9	3.0	3.0	226	139	2	23.3	6.4	1.8	<0.01	<0.01	<0.01							99.600	99.515	7.36	78.0	85.6	68.8	7.41	2.6	12.4	7.4					
09/26/2015	7.03	0.10	2.8	2.1	2.1	104	78	9	22.4	6.4	1.1	<0.01	<0.01	<0.01							99.800	99.785	7.38	156.0	179.4	140.2	7.36	2.7	11.8	6.6					
09/27/2015	6.94	<0.10	4.6	2.4	2.4	170	89	2	21.6	6.8	1.0	<0.01	<0.01	<0.01		0.38	14	0.16	6		99.360	99.577	7.63	138.0	155.0	121.0	7.40	2.0	9.2	6.4					
09/28/2015	6.95	<0.10	5.6	2.8	2.8	242	121	6	22.4	7.0	1.3	<0.01	<0.01	<0.01		0.50	22	0.11	5		99.309	99.580	7.64	105.0	155.0	109.0	7.19	2.0	6.8	4.0					
09/29/2015	6.91	<0.10	19.6	12.8	8.4	806	345	12	22.8	7.0	1.6	<0.01	<0.01	<0.01		0.50	21	0.48	20		98.857	98.829	7.46	219.0	375.0	310.0	7.32	3.3	9.0	5.8					
09/30/2015	6.86	0.40	30.6	23.2	21.5	3,772	2,650	4000	22.5	5.9	12.4	<0.01	<0.01	<0.01							84.752	83.459	7.41	60.0	39.0	28.0	7.36	7.6	9.0	7.6					
MMAVG													MMAVG			0.47																			
Min.	6.7	0.00	3	2	2	104	78	0	21.6	5.4	1			<0.01		0.34	14	0.09	3		84.75	83.46	7.3	60.0	39.0	28.0	7.1	2.0	5.6	3.8	31.0	50	0.50	23.0	0.20
Max.	7.3	0.40	31	23	22	3772	2650	4000	25.2	7.1	12			<0.01		1.15	51	0.48	20		99.80	99.79	7.7	219.0	868.0	846.0	7.6	7.6	16.9	13.0	31.0	50	0.50	23.0	0.20
Total																																			
Average	7.0	<0.12	8	5	4	433	249	14	23.7	6.6	2			<0.01		0.63	27	0.18	8		98.62	98.79	7.5	131.0	166.0	140.6	7.3	3.9	10.7	7.7	31.0	50	0.50	23.0	0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
09/01/2015	6,430	6,640	4,680	4,740	11,530	10,080	6.63	5.76	2,160,000	2,520,000	44,912	46,379	5,764	69,237	5,527	67,510	56	60	5,790	4,120	4,210	2,980	9,610	8,560	6.97	6.80	2,030,400	1,425,600	59,757	42,521	1,917	23,923			62	61
09/02/2015	8,300	5,830	6,110	4,490	9,370	11,160	5.75	5.34	2,203,200	2,548,800	57,973	40,721	5,786	72,123	5,887	71,158	42	67	5,930	3,960	4,330	2,940	10,230	8,730	6.75	6.54	1,944,000	1,425,600	61,202	40,870	2,089	23,813			57	57
09/03/2015	5,510	6,300	4,130	4,610	5,420	8,850	5.63	4.78	2,145,600	2,534,400	38,486	44,004	3,879	69,615	5,494	71,372	64	64	6,200	3,850	4,620	2,880	8,160	7,040	6.42	6.12	2,073,600	1,555,200	86,694	39,735	948	12,262	807	11,984	58	70
09/04/2015	5,550	6,050	3,790	4,430	7,780	8,470	6.24	5.47	2,160,000	2,534,400	38,765	42,258	4,555	72,282	5,117	72,031	63	66	5,520	4,120	4,040	3,010	8,860	7,410	6.64	6.25	2,073,600	1,771,200	56,971	42,521	1,038	12,094	874	11,982	63	68
09/05/2015	5,390	6,220	4,030	4,580	14,500	7,980	7.05	6.03	2,102,400	2,563,200	37,648	43,445	1,648	25,403	1,778	25,177	59	60	5,880	4,660	4,260	3,440	9,510	7,600	6.97	6.43	2,030,400	1,440,000	60,686	48,095					56	56
09/06/2015	4,140	6,580	3,150	4,860	4,920	7,640	7.15	6.21	2,102,400	2,520,000	28,917	45,960					73	61	5,950	4,620	4,370	3,420	9,920	8,020	7.00	6.53	2,030,400	1,442,880	61,408	47,682					61	58
09/07/2015	7,040	4,830	5,950	2,340	4,560	8,600	7.10	6.10	2,030,400	2,462,400	49,173	33,736	3,202	72,923	5,236	71,554	40	79	5,810	4,340	3,370	2,080	8,900	7,790	7.00	6.40	1,944,000	1,353,600	59,964	44,792	916	11,676	777	11,791	40	62
09/08/2015	4,900	6,410	3,710	3,670	6,990	7,930	6.50	5.60	2,188,800	2,491,200	34,225	44,772	4,537	72,854	5,133	71,231	57	59	5,660	4,440	2,960	2,400	8,770	7,770	6.70	6.30	1,987,200	1,483,200	58,415	45,824	1,139	12,000	1,069	12,000	53	59
09/09/2015	4,800	5,700	3,060	3,480	5,650	9,380	6.70	5.60	2,145,600	2,505,600	33,527	39,813	634	13,454	5,667	72,447	54	61	5,620	4,370	3,200	2,060	10,650	8,880	6.50	6.30	2,044,800	1,497,600	58,003	45,102	1,025	11,805	945	11,752	53	57
09/10/2015	4,450	6,070	3,310	4,520	4,630	7,570	6.40	5.13	2,217,600	2,548,800	31,082	42,397	2,711	70,206	4,518	71,566	63	59	5,450	4,420	4,030	3,300	10,440	9,340	6.19	5.94	2,001,600	1,526,400	56,248	45,618	1,037	11,910	916	11,765	59	61
09/11/2015	2,810	4,870	2,170	3,600	10,840	10,070	8.44	6.87	2,246,400	2,534,400	19,627	34,016					64	66	4,390	2,570	3,220	1,880	13,920	13,310	7.50	7.67	2,016,000	1,569,600	45,308	26,524	9,233	87,035	8,822	86,047	57	62
09/12/2015	4,910	5,830	3,680	4,310	4,810	7,810	8.09	5.77	2,347,200	2,520,000	34,295	40,721					59	67	5,120	4,410	3,820	3,320	9,510	7,640	7.29	6.90	2,073,600	1,468,800	52,842	45,515					61	61
09/13/2015	4,110	7,160	3,050	5,310	3,380	10,280	7.66	5.36	2,174,400	2,534,400	28,707	50,011					61	60	5,110	4,590	3,750	3,300	9,170	8,460	7.31	7.03	2,044,800	1,584,000	52,739	47,372					59	61
09/14/2015	4,190	6,860	3,150	5,110	5,840	10,480	7.60	5.93	2,304,000	2,548,800	29,266	47,915	2,325	45,227	4,003	45,307	62	64	4,420	5,030	3,320	3,710	9,620	9,430	7.68	7.30	2,059,200	1,483,200	45,618	51,913	1,201	12,560	1,288	12,686	61	54
09/15/2015	4,060	6,620	3,120	4,910	4,480	8,830	7.75	5.72	2,217,600	2,534,400	28,358	46,239			4,248	46,690	62	65	4,390	4,820	3,400	3,590	9,300	9,490	7.75	7.32	2,059,200	1,526,400	45,308	49,746	2,201	23,008	7,181	70,750	64	60
09/16/2015	4,160	6,620	3,070	4,820	4,500	9,060	7.54	5.74	2,347,200	2,520,000	29,057	46,239			2,246	24,680	63	60	4,740	4,370	3,400	3,210	9,320	9,560	7.58	7.20	2,160,000	1,497,600	48,920	45,102	5,166	56,108	5,311	55,718	59	62
09/17/2015	4,990	7,220	3,850	5,540	4,650	10,150	6.52	4.65	2,160,000	2,534,400	34,854	50,430			935	11,040	60	57	5,060	4,500	3,930	3,500	9,090	9,070	6.90	6.58	2,116,800	1,526,400	52,223	46,443	2,568	27,891	2,847	29,861	61	58
09/18/2015	5,210	5,990	4,050	4,620	7,050	8,790	5.34	4.56	2,203,200	2,476,800	36,391	41,839			12,209	29,861	63	65	5,190	4,510	3,960	3,400	9,460	9,460	6.19	5.87	2,102,400	1,598,400	53,565	46,547	3,976	50,400	4,193	50,400	66	67
09/19/2015	5,350	5,920	4,000	4,410	5,490	9,290	5.49	4.79	2,275,200	2,476,800	37,368	41,350					65	66	4,680	4,350	3,520	3,250	8,960	8,300	6.37	6.31	2,088,000	1,584,000	48,301	44,895	2,609	36,000	2,821	36,000	68	64
09/20/2015	5,110	6,490	3,750	4,850	8,640	7,460	6.18	4.92	2,376,000	2,505,600	35,692	45,331					63	62	5,320	4,100	3,950	3,100	9,020	7,290	6.49	6.53	2,102,400	1,454,400	54,906	42,315					60	73
09/21/2015	4,810	7,040	2,650	4,220	3,670	9,840	6.70	5.00	2,246,400	2,491,200	33,597	49,173	2,727	45,128	3,098	43,427	62	64	5,410	4,170	3,740	1,850	7,170	8,100	7.30	7.20	2,016,000	1,468,800	55,835	43,038	1,686	19,690	1,065	12,375	65	67
09/22/2015	5,070	8,420	3,920	6,270	7,710	11,320	6.40	5.50	2,059,200	2,534,400	35,413	58,812			4,013	44,891	57	56	4,730	3,850	3,870	2,750	7,830	8,870	7.60	7.50	2,088,000	1,569,600	48,817	39,735	4,098	52,524	7,146	68,296	70	70
09/23/2015	4,370	6,530	3,300	5,000	2,150	10,020	5.71	5.15	1,512,000	1,915,200	30,523	45,610			8,301	95,982	66	61	5,470	4,180	3,980	3,130	9,000	8,900	7.12	7.08	1,972,800	1,526,400	56,455	43,141					66	69
09/24/2015	4,300	6,020	3,340	4,640	8,730	10,550	6.50	5.60	1,601,280	1,929,600	30,034	42,048					58	58	5,320	4,370	4,060	3,350	10,050	8,560	7.00	6.80	1,987,200	1,512,000	54,906	45,102					60	64
09/25/2015	4,210	6,300	3,320	5,200	2,590	6,270	7.00	5.20	1,497,600	1,944,000	29,406	44,004					59	60	5,390	4,270	4,130	3,360	8,960	8,030	7.20	7.00	2,073,600	1,598,400	55,629	44,070	5,354	61,668	5,425	61,653	67	70
09/26/2015	4,090	6,200	3,050	4,650	2,470	11,210	7.64	5.99	1,353,600	1,929,600	28,568	43,305					59	58	4,900	3,920	3,590	2,870	7,580	6,660	7.79	7.54	1,641,600	1,440,000	50,572	40,457	2,433	24,658	2,054	24,683	63	66
09/27/2015	3,630	7,020	2,730	5,260	2,510	9,830	8.33	6.16	1,454,400	1,972,800	25,355	49,033					61	54	5,340	3,970	4,080	3,080	7,420	6,920	8.14	7.89	2,088,000	1,440,000	55,113	40,973					60	71
09/28/2015	3,120	7,000	2,420	5,300	8,120	10,500	7.60	5.40	1,555,200	1,728,000	21,792	48,893			7,330	95,433	64	53	4,930	4,210	3,700	3,220	8,800	6,820	8.00	7.80	2,059,200	1,425,600	50,881	43,450					61	67
09/29/2015	2,660	4,010	2,040	3,100	1,540	4,540	7.91	6.83	1,008,000	1,728,000	18,579	28,009			1,072	14,964	60	60	4,930	4,300	3,810	3,380	7,960	8,580	7.79	7.19	1,800,000	1,224,000	50,881	44,379	3,862	48,693	3,937	48,897	67	70
09/30/2015	1,280	1,340	990	1,040	1,070	1,160	2.52	5.85	1,051,200	1,684,800	8,940	9,360					47	45	4,810	3,930	3,630	2,970	12,940	11,720	6.34	5.94	1,756,800	1,396,800	49,643	40,561					62	81
MMAVG																																				
Min.	1,280	1,340	990	1,040	1,070	1,160	3	5	1,008,000	1,684,800	8,940	9,360	634	13,454	935	11,040	40	45	4,390	2,570	2,960	1,850	7,170	6,660	6	6	1,641,600	1,224,000	45,308	26,524	916	11,676	777	11,752	40	54
Max.	8,300	8,420	6,110	6,270	14,500	11,320	8	7	2,376,000	2,563,200	57,973	58,812	5,786	72,923	12,209	95,982	73	79	6,200	5,030	4,620	3,710	13,920	13,310	8	8	2,160,000	1,771,200	63,989	51,913	9,233	87,035	8,822	86,047	70	81
Total									59,446,080	70,272,000	970,530	1,285,823	37,768	628,452	91,812	1,046,321											60,465,600	44,815,680	1,625,105	1,314,038	54,496	619,718	57,478	628,640		
Average	4,632	6,136	3,452	4,463	5,853	8,837	7	6	1,981,536	2,342,400	32,351	42,861	3,433	57,132	4,832	55,070	60	61	5,249	4,244	3,808	3,024	9,338	8,544	7	7	2,015,520	1,493,856	54,170	43,801	2,725	30,986	3,193	34,924	61	64

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
10/01/2015	6.55	10.76	2.85	0.00	0.444	0.000	42,828		62.0	22.1	7.63	720	905	39,331	49,437		7.60	1.5	103	81	162	5,627	8,850		
10/02/2015	5.72	10.02	2.69	0.00	0.396	0.000	48,467		53.0	21.3	7.60	246	906	11,735	43,221		7.61	2.0	129	107	158	6,154	7,537		
10/03/2015	5.22	8.66	2.37	0.10	0.415	0.000	8,725		52.0	21.0	7.66	156	651	6,791	28,341		7.70	3.0	124	100	144	5,398	6,269		
10/04/2015	5.15	10.08	2.27	0.00	0.432	0.000	2,711		51.0	21.0	7.57	285	708	12,241	30,409		7.55	3.5	119	97	146	5,111	6,271		
10/05/2015	5.82	9.59	3.27	0.00	0.428	0.000			56.0	21.0	7.35	345	968	16,746	46,986		7.42	2.2	128	104	173	6,213	8,397		
10/06/2015	6.29	10.42	3.32	0.00	0.434	0.000			60.0	20.6	7.46	285	922	14,951	48,367		7.29	21.0	496	420	279	26,019	14,636		
10/07/2015	6.05	9.24	3.11	0.00	0.451	0.000			60.0	22.0	7.49	390	1168	19,678	58,934		7.05	35.0	696	587	390	35,118	19,678		
10/08/2015	5.86	9.13	4.77	0.00	0.440	0.000			58.0	20.9	7.48	390	754	19,060	36,850		7.25	17.0	405	340	312	19,793	15,248		
10/09/2015	6.28	11.28	3.27	0.15	0.414	0.000	42,880		58.0	21.4	7.30	495	592	25,926	31,006		7.20	5.5	175	145	221	9,166	11,575		
10/10/2015	5.59	10.41	2.38	0.00	0.423	0.000	36,147		54.0	21.7	7.40	435	471	20,280	21,958		7.40	2.2	108	90	167	5,035	7,786		
10/11/2015	5.14	10.42	2.83	0.00	0.444	0.000	13,078		52.0	20.4	7.50	378	366	16,204	15,690		7.50	3.5	101	93	192	4,330	8,231		
10/12/2015	5.90	9.33	3.16	0.00	0.410	0.000	26,449		71.0	21.4	7.46	315	558	15,500	27,457		7.56	1.8	92	71	186	4,527	9,152		
10/13/2015	5.87	9.98	2.85	0.00	0.463	0.000	52,736		53.0	20.7	7.52	390	720	19,093	35,248		7.28	19.0	386	336	351	18,897	17,183		
10/14/2015	5.92	9.57	2.80	0.00	0.383	0.000	65,948		58.0	21.4	7.42	360	782	17,774	38,610		7.32	40.0	610	542	330	30,117	16,293		
10/15/2015	5.71	10.31	2.80	0.00	0.405	0.000	58,092		55.0	21.4	7.60	218	688	10,381	32,764		7.68	0.1	123	93	96	5,857	4,572		
10/16/2015	5.73	9.97	3.17	0.00	0.474	0.000	55,129		56.0	21.4	7.38	374	634	17,873	30,298		7.35	26.0	116		120	5,543	5,735		
10/17/2015	6.70	12.57	2.49	0.00	0.499	0.000	43,165		46.0	20.9	7.36	525	908	29,336	50,737		7.31	40.0	718		413	40,120	23,078		
10/18/2015	4.92	9.67	2.17	0.00	0.744	0.000	1,681		31.0	19.1	7.58	348	396	14,279	16,249		7.55	2.2	88	67	138	3,611	5,663		
10/19/2015	5.35	9.13	3.38	0.00	0.451	0.000	81,945		42.0	19.4	7.50	378	798	16,866	35,606		7.38	9.5	247	194	212	11,021	9,459		
10/20/2015	5.21	9.50	2.86	0.00	0.318	0.000	91,520		50.0	19.4	7.49	386	760	16,772	33,023		7.02	75.0	1614	1320	675	70,131	29,330		
10/21/2015	5.91	9.24	3.12	0.10	0.724	0.000	80,178		56.0	19.8	7.35	450	874	22,180	43,079		7.03	65.0	1062	900	465	52,345	22,920		
10/22/2015	5.79	8.83	2.80	0.00	0.788	0.000	51,355		58.0	19.9	7.41	300	712	14,487	34,381		7.42	25.0	506	402	300	24,434	14,487		
10/23/2015	5.40	10.27	1.57	0.00	0.268	0.000	98,670		43.0	19.8	7.24	180	608	8,106	27,382		7.23	3.5	157		189	7,071	8,512		
10/24/2015	4.64	8.10	1.53	0.03	0.390	0.000	49,628		45.0	19.3	7.39	240	502	9,287	19,426		7.39	1.5	109		264	4,218	10,216		
10/25/2015	5.03	8.55	1.76	0.00	0.434	0.000	5,313		56.0	19.4	7.58	374	370	15,689	15,522		7.50	2.0	94	70	264	3,943	11,075		
10/26/2015	5.32	8.47	2.53	0.00	0.458	0.000	68,269		48.0	19.8	7.64	390	627	17,304	27,819		7.58	2.5	98	476	258	4,348	11,447		
10/27/2015	5.53	8.54	2.95	0.00	0.510	0.000	74,343		47.0	19.4	7.53	375	692	17,295	31,915		7.39	7.0	226	195	306	10,423	14,113		
10/28/2015	8.32	27.58	4.15	1.75	0.496	0.245	85,622		46.0	19.4	7.80	387	710	26,853	49,266		7.07	25.0	556	484	386	38,580	26,784		
10/29/2015	9.76	8.96	3.73	0.00	0.489	0.000	57,438		67.0	17.9	7.58	324	402	26,373	32,722		7.51	3.0	121	82	171	9,849	13,919		
10/30/2015	6.95	11.01	3.57	0.00	0.482	0.000	57,716		56.0	18.8	7.55	156	412	9,042	23,881		7.53	5.0	147	120	117	8,521	6,782		
10/31/2015	6.24	9.36	2.14	0.00	0.479	0.000	37,431		50.0	15.0	7.57	345	427	17,954	22,222		7.46	2.0	100	74	128	5,204	6,661		
MMAVG	9.05																								
Min.	4.6	8.1	1.5	0.0		0.000	1,681		31.0	15.0	7.24	156	366	6,791	15,522		7.02	0.1	88	67	96	3611	4572		
Max.	9.8	27.6	4.8	1.8		0.245	98,670		71.0	22.1	7.80	720	1168	39,331	58,934		7.70	75.0	1614	1320	675	70131	29330		
Total	183.9	319.0	88.7	2.1		0.245	1,337,464																		
Average	5.9	10.3	2.9	0.1		0.008	49,536		53.23	20.23	7.50	353	677	17593	33510		7.39	14.6	315	281	249	15701	12318		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
10/01/2015	7.15	0.10	8.4	5.4	6.2	459	339	30	22.3	7.1	2.5	<0.01	<0.01	<0.01							99.139	99.072	7.57	90.0	65.0	57.0	7.56	5.4	9.6	7.0					
10/02/2015	7.21	0.10	12.2	9.6	3.7	582	177	10	21.4	6.8	1.8	<0.01	<0.01	<0.01							98.496	98.653	7.55	89.0	69.0	55.0	7.53	3.3	11.2	8.2					
10/03/2015	7.23	<0.10	10.0	7.0	2.2	435	96	12	21.0	6.7	1.8	<0.01	<0.01	<0.01							98.590	98.464	7.54	84.0	71.0	55.8	7.50	3.0	12.6	9.8					
10/04/2015	7.25	<0.10	4.8	3.8	2.6	206	112	27	21.0	6.8	1.5	<0.01	<0.01	<0.01		0.24	10	0.10	4		99.088	99.322	7.54	77.0	67.0	61.0	7.48	2.0	10.0	6.6					
10/05/2015	7.06	<0.10	6.4	4.0	3.3	311	160	11	20.5	7.5	2.1	<0.01	<0.01	<0.01		0.30	15	0.09	4		99.043	99.339					7.24	2.0	5.8	4.4	46.00	61.00	<0.50	23.00	<0.20
10/06/2015	6.99	<0.10	7.8	5.6	3.4	409	178	4	20.7	7.8	2.1	<0.01	<0.01	<0.01		0.30	16	0.13	7		98.807	99.154	7.51	147.0	257.0	220.0	7.32	2.2	7.4	5.0					
10/07/2015	6.87	<0.10	5.8	4.4	2.8	293	141	10	21.0	7.3	1.8	<0.01	<0.01	<0.01							99.282	99.503	7.49	183.0	324.0	284.0	7.32	2.8	8.8	6.2					
10/08/2015	6.88	0.20	8.0	3.2	5.7	391	279	20	21.4	6.7	2.5	<0.01	<0.01	<0.01							98.538	98.939	7.57	162.0	221.0	186.0	7.38	3.1	8.4	5.6					
10/09/2015	7.02	0.10	6.8	6.0	2.7	356	141	12	21.4	5.9	2.6	<0.01	<0.01	<0.01							99.455	98.851	7.40	114.0	98.5	82.0	7.30	3.4	14.0	10.0					
10/10/2015	6.90	<0.10	6.0	5.4	2.3	280	107	0	21.2	7.4	1.0	<0.01	<0.01	<0.01							99.471	98.726	7.50	108.0	80.5	64.0	7.20	4.4	11.6	9.0					
10/11/2015	6.80	<0.10	8.2	7.0	2.4	352	103	4	20.8	7.4	0.8	<0.01	<0.01	<0.01		0.23	10	0.23	10		99.365	97.760	7.40	114.0	91.0	76.0	7.00	4.6	24.4	18.8					
10/12/2015	6.60	<0.10	8.0	6.2	3.2	394	157	4	21.0	7.5	0.8	<0.01	<0.01	<0.01		0.32	16	0.18	9		98.984	98.566	7.59	87.0	69.0	53.0	7.16	3.6	13.4	11.0					
10/13/2015	6.91	<0.10	8.4	5.0	3.0	411	147	9	20.9	7.3	2.4	<0.01	<0.01	<0.01		0.34	17	0.11	5		99.231	98.833	7.48	168.0	165.0	141.0	7.19	3.4	14.0	12.0					
10/14/2015	6.73	0.10	8.8	6.2	3.9	434	193	19	21.1	7.2	2.4	<0.01	<0.01	<0.01							98.917	98.875	7.46	186.0	255.0	223.0	7.08	5.3	21.8	16.2					
10/15/2015	6.75	0.10	7.0	5.2	4.7	333	224	14	20.9	6.8	2.8	<0.01	<0.01	<0.01							97.844	98.983	7.71	46.0	43.0	34.0	7.36	6.1	12.2	9.4					
10/16/2015	7.04	0.20	10.0		4.0	478	191	20	20.8	6.9	2.1	<0.01	<0.01	<0.01							98.930	98.423	7.36	94.0	72.6		7.01	8.1	29.8						
10/17/2015	6.69	<0.10	11.4		3.4	637	190	3	20.0	7.2	2.3	<0.01	<0.01	<0.01							99.352	98.744	7.29	210.0	812.0		7.02	9.1	36.2						
10/18/2015	6.72	<0.10	11.6	8.0	5.4	476	222	48	19.1	7.1	1.9	<0.01	<0.01	<0.01		0.29	12	0.10	4		98.448	97.071	7.47	105.0	98.0	78.0	7.25	8.8	19.2	13.0					
10/19/2015	6.86	<0.10	12.4	8.2	6.0	553	268	5	18.7	7.5	2.6	<0.01	<0.01	<0.01		0.26	12	0.09	4		98.413	98.446	7.54	75.6	187.0	153.0	7.20	7.8	18.8	13.0					
10/20/2015	6.82	0.20	9.0	6.0	5.2	391	226	13	19.0	7.3	3.9	<0.01	<0.01	<0.01		0.26	11	0.09	4		98.653	98.816	7.32	390.0	726.0	602.0	7.17	5.8	17.4	12.6					
10/21/2015	6.82	0.10	7.4	6.2	6.0	365	296	11	19.4	6.9	2.6	<0.01	<0.01	<0.01							98.667	99.153	7.45	192.0	395.0	326.0	7.25	4.2	13.8	11.4					
10/22/2015	6.95	0.10	7.4	5.2	5.6	357	270	32	20.1	6.6	4.0	<0.01	<0.01	<0.01							98.133	98.961	7.60	126.0	208.0	178.0	7.48	6.4	16.4	13.6					
10/23/2015	7.11	0.20	11.4		4.5	513	203	20	19.9	6.7	3.2	<0.01	<0.01	<0.01							97.500	98.125	7.34	86.0	117.3		7.42	5.0	75.6						
10/24/2015	7.04	0.00	7.0		2.5	271	97	1	19.8	6.7	1.5	<0.01	<0.01	<0.01							98.958	98.606	7.30	153.0	105.3		7.28	3.7	15.0						
10/25/2015	6.90	0.00	8.6	5.2	3.0	361	126	4	18.8	7.1	0.9	<0.01	<0.01	<0.01		0.16	7	0.10	4		99.198	97.676	7.50	114.0	109.0	78.0	7.44	4.4	14.4	11.6					
10/26/2015	7.03	<0.10	9.0	6.4	3.7	399	164	7	18.9	7.2	1.8	<0.01	<0.01	<0.01		0.16	7	0.10	4		99.051	98.565	7.51	108.0	85.0	66.0	7.24	4.4	16.0	11.6					
10/27/2015	6.86	0.10	9.2	6.4	3.9	424	180	5	18.7	7.7	2.9	<0.01	<0.01	<0.01		0.22	10	0.12	6		98.960	98.671	7.40	138.0	103.0	88.0	7.17	4.1	17.8	11.4					
10/28/2015	6.86	0.20	18.0	14.2	11.3	1,249	784	2	18.5	7.6	2.5	<0.01	<0.01	<0.01							97.080	97.465	7.19	150.0	190.0	176.0	7.01	6.3	20.2	16.8					
10/29/2015	6.85	0.20	8.2	5.2	5.3	667	431	12	17.9	8.5	3.8	<0.01	<0.01	<0.01							98.364	97.960	7.50	189.0	65.0	42.0	7.39	5.1	15.4	7.4					
10/30/2015	6.95	0.50	11.6	7.8	5.7	672	330	12	19.0	7.4	5.9	<0.01	<0.01	<0.01							96.346	97.184	7.53	57.6	58.2	45.6	7.40	3.3	21.2	13.4					
10/31/2015	6.98	<0.01	7.6	5.2	5.2	396	271	2	19.1	7.4	5.5	<0.01	<0.01	<0.01							98.493	98.220	7.42	85.8	64.0	50.6	7.32	6.1	17.5	12.7					
MMAVG														MMAVG		0.47																			
Min.	6.6	0.00	5	3	2	206	96	0	17.9	5.9	1			<0.01		0.16	7	0.09	4		96.35	97.07	7.2	46.0	43.0	34.0	7.0	2.0	5.8	4.4	46.0	61	<0.50	23.0	<0.20
Max.	7.3	0.50	18	14	11	1249	784	48	22.3	8.5	6			<0.01		0.34	17	0.23	10		99.47	99.50	7.7	390.0	812.0	602.0	7.6	9.1	75.6	18.8	46.0	61	<0.50	23.0	<0.20
Total																																			
Average	6.9	<0.12	9	6	4	447	219	8	20.1	7.2	2			<0.01		0.26	12	0.12	5		98.67	98.55	7.5	131.0	175.7	133.7	7.3	4.7	17.7	10.7	46.0	61	<0.50	23.0	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
10/01/2015	6,010	7,160	4,560	5,490	9,430	11,290	5.48	4.29	1,166,400	1,742,400	41,978	50,011			1,196	13,464	58	63	5,270	4,080	4,030	3,180	11,310	8,980	7.28	6.60	1,742,400	1,454,400	54,390	42,109	6,646	64,338	6,262	64,341	65	71
10/02/2015	1,620	6,750	1,220	5,060	890	9,970	7.43	6.12	1,051,200	1,699,200	11,315	47,147			6,013	67,806	56	55	5,750	3,970	4,320	3,030	13,600	8,980	7.32	7.81	1,641,600	1,353,600	59,344	40,973	4,752	44,868	3,790	44,883	59	71
10/03/2015	3,460	7,250	2,670	5,430	11,800	10,330	7.49	6.32	1,310,400	1,900,800	24,167	50,639			3,104	36,033	61	54	5,440	4,220	4,060	3,140	9,750	10,230	8.21	8.11	1,684,800	1,094,400	86,694	43,554	529	6,509			59	59
10/04/2015	3,970	6,830	3,060	5,120	10,930	12,210	7.80	6.68	1,296,000	1,886,400	27,729	47,706			3,739	36,720	58	56	5,070	4,250	3,790	3,160	9,080	9,900	8.49	8.29	1,670,400	1,137,600	52,326	43,863	3,456	42,950			59	59
10/05/2015	3,760	6,690	2,960	5,150	6,670	11,800	7.75	6.75	1,425,600	1,900,800	26,263	46,728			1,665	16,923	64	58	4,750	3,910	3,730	3,090	8,980	9,070	8.49	8.26	1,785,600	1,411,200	49,024	40,354	2,248	29,851			63	67
10/06/2015	4,250	5,610	3,250	4,280	10,850	10,090	7.00	7.14	1,540,800	1,872,000	29,685	39,184			3,309	36,000	54	57	4,660	3,980	3,380	3,020	8,950	10,310	8.38	8.05	1,828,800	1,368,000	48,095	41,077					64	63
10/07/2015	6,780	6,290	5,130	4,690	10,360	10,550	5.86	5.49	1,627,200	1,800,000	47,357	43,934	3,414	36,062	2,960	35,416	56	60	4,980	4,300	3,820	3,230	9,760	10,320	7.60	8.05	1,670,400	1,425,600	51,397	44,379	1,445	16,371	1,551	16,324	64	51
10/08/2015	5,840	6,240	4,560	4,880	11,070	11,010	6.12	5.64	1,598,400	1,857,600	40,791	43,585	3,134	35,635	3,054	36,362	63	61	5,100	4,460	3,900	3,550	9,840	10,880	7.43	6.95	1,699,200	1,224,000	52,636	46,031	4,941	55,164	5,050	54,874	67	65
10/09/2015	6,570	6,510	5,170	5,070	9,930	9,700	6.11	5.60	1,512,000	1,843,200	45,890	45,471	3,242	35,438	2,979	35,662	56	58	5,560	5,580	4,280	4,420	10,410	9,970	7.12	6.51	1,656,000	1,281,600	57,383	57,590	3,152	35,649	3,337	35,415	61	50
10/10/2015	6,100	6,530	4,770	5,110	10,710	10,390	6.20	6.10	1,526,400	1,843,200	42,607	45,610					62	61	4,970	4,270	3,970	3,240	9,780	9,450	7.60	7.00	1,656,000	1,224,000	51,294	44,070					66	70
10/11/2015	6,110	6,380	4,690	4,900	11,090	9,010	7.30	6.40	1,512,000	1,857,600	42,677	44,563					59	58	5,240	4,470	3,980	3,430	9,330	8,580	7.90	7.50	1,627,200	1,209,600	54,081	46,134					61	63
10/12/2015	5,650	5,990	4,370	4,590	8,190	10,620	7.46	6.61	1,411,200	1,886,400	39,464	41,839	1,241	14,895	1,280	14,895	60	58	4,940	4,220	1,290	3,140	9,890	10,050	7.98	7.77	1,627,200	1,339,200	50,985	43,554	2,937	37,748	2,674	37,372	67	64
10/13/2015	5,230	5,820	4,000	4,520	6,850	10,140	7.42	6.57	1,526,400	1,872,000	36,530	40,651	1,798	21,576	5,331	62,686	63	60	4,800	3,620	3,610	2,810	9,880	9,320	7.95	7.70	1,690,560	1,425,600	49,540	37,361	909	10,708	1,120	13,436	67	69
10/14/2015	5,560	6,780	4,320	5,190	7,980	11,290	7.15	5.23	1,584,000	1,857,600	38,835	47,357			1,894	20,115	61	58	4,990	3,770	3,800	2,980	9,710	8,350	7.68	7.43	1,771,200	1,238,400	51,501	38,909	1,535	18,952	1,339	19,222	62	69
10/15/2015	5,480	6,710	4,200	5,130	7,440	10,900	7.06	5.56	1,641,600	1,828,800	38,276	46,868			2,173	25,079	64	61	5,080	3,850	3,850	2,980	9,810	8,630	7.46	7.24	1,670,400	1,238,400	52,429	39,735					67	70
10/16/2015	3,210	2,800	2,520	2,270	3,170	2,600	8.19	7.86	1,656,000	1,800,000	22,421	19,557					75	75	5,190	4,020	4,200	3,010	9,020	9,340	7.91	7.53	1,526,400	1,296,000	53,565	41,489					58	65
10/17/2015	5,110	1,370	3,960	1,200	8,810	1,530	7.68	8.13	1,526,400	1,800,000	35,692	9,569					59	22	5,520	4,380	4,310	3,400	11,220	9,390	8.04	8.21	1,641,600	1,195,200	56,971	45,205					58	62
10/18/2015	5,610		4,360		7,880		8.05	9.81	1,454,400		39,184						57		6,780	5,160	5,170	3,950	12,630	10,430	7.84	8.20	1,641,600	1,252,800	69,975	53,255					59	62
10/19/2015	3,230	1,010	2,640	870	6,450		8.74	10.00	1,382,400	0	22,561	7,055	1,072	14,546			59	50	6,340	5,170	4,850	3,790	13,170	11,120	8.45	8.76	1,497,600	1,454,400	65,434	53,358	3,847	36,026	3,587	36,086	60	60
10/20/2015	2,280	1,100	1,850	890	7,270		7.75	10.00	1,368,000	0	15,925	7,683	2,242	35,743			57	36	5,280	4,990	4,020	3,860	13,140	11,010	8.40	8.52	1,497,600	1,238,400	54,494	51,501	4,157	36,106	3,477	35,860	63	62
10/21/2015	3,190	2,090	2,620	1,730	2,210	3,790	7.15	5.24	1,224,000	1,972,800	22,281	14,598	947	20,649			47	96	6,970	6,110	5,390	4,770	13,850	12,360	6.07	6.75	1,526,400	1,252,800	71,936	63,060	3,914	35,719	3,091	33,665	57	56
10/22/2015	8,060	3,590	6,350	3,070	11,340	5,510	3.22	5.75	1,872,000	2,232,000	56,297	25,075					62	64	7,070	5,280	5,540	4,200	15,710	13,250	5.57	6.00	1,368,000	1,267,200	72,968	54,494	4,776	36,449	3,915	35,429	58	63
10/23/2015	7,550	3,550	5,790	2,770	13,410	3,240	6.25	5.15	1,756,800	2,203,200	52,735	24,796	3,896	34,383			61	70	7,320	5,190	5,490	3,870	13,930	14,620	5.43	7.21	1,526,400	1,123,200	75,548	53,565	2,017	16,190	2,074	16,115	55	60
10/24/2015	9,540	3,680	7,550	3,090	11,970	3,690	4.73	5.81	1,915,200	2,203,200	66,635	25,704					58	76	6,980	5,270	5,360	4,050	11,890	12,510	6.69	8.08	1,425,600	1,094,400	72,039	54,390	2,466	19,788	2,473	19,221	62	61
10/25/2015	9,030	4,390	7,070	3,570	12,310	6,420	5.08	5.23	1,972,800	2,145,600	63,072	30,663					60	66	7,640	5,790	5,870	4,440	12,270	12,370	6.56	8.10	1,627,200	1,180,800	78,851	59,757					59	55
10/26/2015	8,170	4,330	6,380	3,430	12,310	6,490	6.06	5.88	2,044,800	2,174,400	57,065	30,244	3,906	35,926			56	72	7,120	5,650	5,470	4,390	12,170	13,470	7.09	8.51	1,555,200	1,224,000	73,484	58,312	3,806	35,408	1,543	13,235	59	53
10/27/2015	8,170	4,820	6,330	3,820	12,030	6,850	6.58	6.19	2,016,000	2,188,800	57,065	33,666	3,026	36,376			54	62	6,790	5,690	5,260	4,430	14,890	12,480	7.59	9.08	1,540,800	1,310,400	70,078	58,725	4,230	35,947	4,143	35,700	56	46
10/28/2015	8,760	5,510	6,820	4,430	12,160	6,160	6.35	6.00	2,030,400	2,203,200	61,186	38,486	3,974	36,139			51	56	7,130	4,860	5,520	3,730	14,250	11,760	7.47	9.24	1,598,400	1,324,800	73,587	50,159	4,382	35,721	3,945	35,910	51	56
10/29/2015	4,070	5,370	3,170	4,280	14,460	9,340	8.32	5.48	2,016,000	2,188,800	28,428	37,508	4,125	36,139			57	65	4,140	3,110	3,240	2,450	14,440	14,220	8.14	10.00	1,497,600	1,209,600	42,728	32,098	4,142	35,721	3,039	30,153	53	51
10/30/2015	8,310	8,040	6,450	6,330	14,060	13,650	7.10	5.60	1,800,000	2,145,600	58,043	56,157	3,633	35,970			51	60	6,780	4,470	5,220	3,550	13,600	13,230	6.90	8.80	1,569,600	1,296,000	69,975	46,134	1,880	14,772	3,962	34,873	49	56
10/31/2015	7,420	7,780	5,760	5,980	9,510	13,510	7.48	6.58	1,670,400	2,160,000	51,827	54,341					58	62	6,470	4,450	4,960	3,420	13,320	11,910	7.58	8.64	1,656,000	1,353,600	66,775	45,927	2,584	21,475	2,462	21,421	54	58
MMAVG																																				
Min.	1,620	1,010	1,220	870	890	1,530	3	4	1,051,200	0	11,315	7,055	947	14,546	1,196	13,464	47	22	4,140	3,110	1,290	2,450	8,950	8,350	5	6	1,368,000	1,094,400	42,728	32,098	529	6,509	1,120	13,235	49	46
Max.	9,540	8,040	7,550	6,330	14,460	13,650	9	10	2,044,800	2,232,000	66,635	56,157	4,125	36,376	6,013	67,806	75	96	7,640	6,110	5,870	4,770	15,710	14,620	8	10	1,828,800	1,454,400	78,851	63,060	6,646	64,338	6,262	64,341	67	71
Total									49,435,200	55,065,600	1,243,981	1,096,395	39,650	429,477	38,697	437,161											50,117,760	39,499,200	1,858,978	1,471,122	74,751	722,430	62,834	633,535		
Average	5,745	5,232	4,469	4,078	9,469	8,646	7	6	1,594,684	1,835,520	40,128	36,547	2,832	30,677	2,977	33,628	59	60	5,810	4,598	4,377	3,539	11,599	10,855	8	8	1,616,702	1,274,168	59,967	47,456	3,250	31,410	3,142	31,677	60	61

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
11/01/2015	5.70	8.88	2.16	0.00	0.485	0.000	7,383		56.0	18.3	7.53	318	453	15,117	21,535		7.46	2.5	104	78	138	4,944	6,560		
11/02/2015	6.83	10.35	2.17	0.00	0.446	0.000	56,515		58.0	18.8	7.50	330	554	18,798	31,557		7.43	25.0	544	402	281	30,987	16,006		
11/03/2015	6.51	9.12	3.47	0.00	0.524	0.000	73,360		61.0	18.1	7.43	363	594	19,709	32,250		7.36	5.0	155	129	191	8,415	10,370		
11/04/2015	5.44	9.09	3.37		0.523	0.000	55,025		60.0	18.4	7.45	300	488	13,611	22,140		7.27	12.0	345	291	476	15,653	21,596		
11/05/2015	6.42	8.99	3.34		0.379	0.000	70,488		73.0	18.1	7.47	915	861	48,992	46,100		7.41	6.0	178	152	153	9,531	8,192		
11/06/2015	6.31	10.16	3.37	0.00	0.541	0.000	56,413		73.0	18.8	7.50	282	1277	14,840	67,203		7.45	25.0	672	560	315	35,364	16,577		
11/07/2015	6.22	9.71	1.86	0.00	0.568	0.000	22,407		59.0	19.0	7.45	192	605	9,960	31,384		7.60	20.0	353	293	210	18,312	10,894		
11/08/2015	5.32	8.41	2.27	0.00	0.574	0.000			56.0	18.0	7.60	318	413	14,109	18,324		7.50	11.0	247	203	234	10,959	10,382		
11/09/2015	5.00	9.19	1.85	0.00	0.558	0.000	69,121		52.0	17.7	7.53	390	880	16,263	36,696		7.26	8.5	220	177	240	9,174	10,008		
11/10/2015	5.66	9.86	3.00	0.60	0.548	0.000	38,539		47.0	18.3	7.46	330	958	15,577	45,222		7.16	11.0	260	214	237	12,273	11,187		
11/11/2015	7.89	16.36	3.58	0.40	0.525	0.000	56,786		42.0	16.8	7.51	420	685	27,637	45,075		7.28	10.0	271	237	276	17,833	18,162		
11/12/2015	7.61	11.78	3.63	0.20	0.614	0.000	33,974		46.0	18.4	7.52	450	634	28,560	40,238		7.17	50.0	815	682	1035	51,726	65,689		
11/13/2015	5.92	11.32	3.19		0.612	0.000	76,081		57.0	18.7	7.50	240	392	11,849	19,354		7.22	25.0	461	384	255	22,761	12,590		
11/14/2015	5.94	11.31	2.42	0.00	0.664	0.000	45,242		55.0	18.8	7.54	318	610	15,754	30,219		7.20	10.0	266		228	13,178	11,295		
11/15/2015	5.24	9.27	2.18	0.00	0.651	0.000	3,455		25.0	17.5	7.58	300	507	13,110	22,157		7.35	8.0	218	193	210	9,527	9,177		
11/16/2015	5.65	9.48	2.89	0.00	0.461	0.000	50,178		48.0	17.6	7.53	299	650	14,089	30,629		7.31	8.5	223	194	221	10,508	10,414		
11/17/2015	5.67	10.16	2.99	0.00	0.466	0.000	59,262		42.0	17.3	7.70	360	1070	17,024	50,598		7.44	8.0	255	211	224	12,058	10,592		
11/18/2015	5.81	9.62	2.95	0.00	0.465	0.000	57,574		40.0	17.4	7.79	510	720	24,712	34,888		7.55	9.0	232	193	300	11,242	14,537		
11/19/2015	6.31	27.08	3.94	1.10	0.463	0.411	46,956		50.0	17.7	7.54	960	726	50,520	38,206		7.48	10.0	273	226	234	14,367	12,314		
11/20/2015	5.08	10.18	4.09	0.00	0.203	0.000	63,910		58.0	16.6	7.57	306	519	12,964	21,989		7.37	4.0	147		150	6,228	6,355		
11/21/2015	6.68	10.39	2.94		0.193	0.000	26,048		32.0	16.8	7.55	368	449	20,502	25,014		7.34	4.0	144		162	8,022	9,025		
11/22/2015	5.87	10.19	2.84	0.00	0.186	0.000			32.0	15.9	7.69	342	363	16,743	17,771		7.36	28.0	611	514	405	29,912	19,827		
11/23/2015	6.05	10.10	2.84	0.00	0.281	0.000	53,875		37.0	16.9	7.67	347	602	17,509	30,375		7.58	7.0	222	178	270	11,201	13,623		
11/24/2015	6.13	9.58	3.61	0.00	0.294	0.000	46,096		40.0	17.3	7.53	432	552	22,086	28,221		7.44	21.0	407	335	288	20,808	14,724		
11/25/2015	6.11	10.26	2.36	0.00	0.253	0.000	61,893		38.0	17.8	7.43	585	792	29,810	40,358		7.36	5.0	190	164	200	9,682	10,191		
11/26/2015	5.39	9.72	2.37		0.254	0.000			35.0	15.9	7.34	485	452	21,802	20,319		7.14	8.0	228	197	252	10,249	11,328		
11/27/2015	5.60	9.94	2.37	0.00	0.252	0.000	40,179		44.0	15.4	7.57	126	688	5,885	32,132		7.40	7.0	194		92	9,061	4,297		
11/28/2015	6.00	12.09	2.36	0.25	0.251	0.000	22,554		48.0	15.4	7.65	189	458	9,458	22,918		7.53	5.0	173		200	8,657	10,008		
11/29/2015	5.19	9.33	2.36	0.00	0.268	0.000	3,635		36.0	15.3	7.75	306	438	13,245	18,959		7.62	4.2	146	125	216	6,320	9,349		
11/30/2015	5.47	9.48	3.61	0.00	0.225	0.000	39,235		32.0	15.5	7.64	374	648	17,062	29,562		7.60	4.2	64	51	218	2,920	9,945		
MMAVG	8.93																								
Min.	5.0	8.4	1.9	0.0		0.000	3,455		25.0	15.3	7.34	126	363	5,885	17,771		7.14	2.5	64	51	92	2920	4297		
Max.	7.9	27.1	4.1	1.1		0.411	76,081		73.0	19.0	7.79	960	1277	50,520	67,203		7.62	50.0	815	682	1035	51726	65689		
Total	179.0	321.4	86.4	2.6		0.411	1,236,184																		
Average	6.0	10.7	2.9	0.1		0.014	45,785		47.73	17.42	7.55	382	635	19243	31713		7.39	12.1	287	255	264	14729	13507		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
11/01/2015	6.92	<0.10	11.8	8.0	4.4	561	209	29	17.9	7.6	1.2	<0.01	<0.01	<0.01							98.616	97.395	7.49	21.6	98.0	74.0	7.25	5.6	15.4	12.4					
11/02/2015	6.90	0.10	10.6	8.0	5.2	604	296	6	18.4	7.5	2.1	<0.01	<0.01	<0.01		0.39	22	0.12	7		98.424	98.087	7.46	183.0	512.0	393.0	7.13	5.0	14.0	10.2					
11/03/2015	6.88	0.10	9.8	6.4	4.4	532	239	7	18.3	7.3	4.7	<0.01	<0.01	<0.01							98.788	98.350	7.41	117.0	117.0	98.0	7.14	4.3	14.4	11.8	46.00	74.00	0.53	21.00	<0.20
11/04/2015	6.86	<0.10	7.6	5.6	5.5	345	250	5	18.5	7.4	2.0	<0.01	<0.01	<0.01							98.167	98.443	7.32	159.0	177.0	140.0	7.25	5.1	15.2	10.6					
11/05/2015	6.87	<0.10	9.4	7.8	5.1	503	273	4	18.4	7.7	2.4	<0.01	<0.01	<0.01							99.443	98.908	7.33	81.0	100.0	76.0	7.30	16.8	98.0	71.0					
11/06/2015	6.94	<0.10	9.6	4.4	3.6	505	189	24	19.2	7.6	1.5	<0.01	<0.01	<0.01							98.723	99.248	7.45	132.0	252.0	207.8	7.28	12.0	74.8	44.6					
11/07/2015	6.89	0.10	12.2	8.2	2.7	633	140	23	19.5	7.6	2.5	<0.01	<0.01	<0.01							98.594	97.983	7.50	84.0	169.0	142.8	7.25	15.6	89.2	67.6					
11/08/2015	6.92	0.50	4.6	2.6	3.7	204	164	34	18.2	7.7	2.3	<0.01	<0.01	<0.01							98.836	98.886	7.48	111.0	111.0	88.0	7.40	16.2	74.0	54.6					
11/09/2015	7.08	<0.10	14.4	4.8	3.8	600	158	3	18.2	7.5	2.0	<0.01	<0.01	<0.01		0.28	12	0.16	7	0.08	99.026	98.364	7.45	150.0	149.0	113.0	7.32	7.5	34.6	25.0					
11/10/2015	6.94	<0.10	13.0	9.0	5.9	614	279	5	17.7	8.1	2.2	<0.01	<0.01	<0.01							98.212	98.643	7.25	99.0	110.2	92.8	7.29	5.0	1190.6	16.6					
11/11/2015	6.95	<0.10	11.8	9.8	7.3	776	480	20	17.7	7.8	2.4	<0.01	<0.01	<0.01							98.262	98.277	7.38	177.0	129.0	115.0	7.27	19.2	41.8	33.4					
11/12/2015	6.94	0.10	10.0	8.2	13.5	635	857	1	17.4	7.6	1.9	<0.01	<0.01	<0.01							97.000	98.423	7.36	216.0	760.0	628.0	7.31	15.3	37.6	31.4					
11/13/2015	6.97	0.10	10.6	9.2	3.1	523	153	28	18.0	7.6	2.0	<0.01	<0.01	<0.01							98.708	97.296	7.40	99.0	229.4	190.8	7.31	2.0	35.6	29.0					
11/14/2015	7.01	0.01	10.4		3.6	515	178	26	18.0	7.6	2.6	<0.01	<0.01	<0.01							98.868	98.295	7.29	105.0	95.0		7.31	7.0	28.0						
11/15/2015	6.90	0.10	7.8	6.2	3.9	341	170	2	16.6	7.4	1.6	<0.01	<0.01	<0.01							98.700	98.462	7.52	78.0	95.0	81.0	7.37	9.3	30.0	23.6					
11/16/2015	6.99	<0.10	6.4	4.4	4.3	302	203	3	17.4	7.4	1.9	<0.01	<0.01	<0.01		0.37	17	0.16	8	0.09	98.562	99.015	7.40	99.0	84.0	73.0	7.27	14.0	32.6	25.6					
11/17/2015	6.92	0.20	11.4	6.8	4.6	539	218	8	17.2	7.5	2.8	<0.01	<0.01	<0.01							98.722	98.935	7.42	126.0	108.0	85.0	7.28	12.3	34.2	26.6					
11/18/2015	6.90	0.20	7.6	6.4	4.4	368	213	3	16.9	7.8	2.9	<0.01	<0.01	<0.01							99.137	98.944	7.45	117.0	94.0	83.0	7.45	9.9	27.8	22.8					
11/19/2015	7.06	<0.10	36.6	30.0	22.8	1,926	1,200	6	17.1	6.6	1.5	<0.01	<0.01	<0.01							97.625	94.959	7.40	111.0	141.0	113.0	7.28	11.4	22.6	17.8					
11/20/2015	7.05	0.10	12.6		4.8	534	203	4	16.5	8.1	3.4	<0.01	<0.01	<0.01							98.431	97.572	7.36	65.0	65.6		7.28	6.3	20.0						
11/21/2015	6.97	0.10	11.4		4.8	635	267	2	15.9	7.9	2.2	<0.01	<0.01	<0.01							98.696	97.461	7.32	87.6	60.0		7.38	5.1	16.0						
11/22/2015	7.04	0.10	7.2	4.6	3.0	352	147	7	16.2	7.8	1.8	<0.01	<0.01	<0.01							99.123	98.017	7.67	198.0	204.0	170.0	7.61	5.4	15.2	9.4					
11/23/2015	7.20	0.20	8.0	5.0	4.7	404	237	14	16.5	7.8	2.6	<0.01	<0.01	<0.01		0.39	20	0.19	10	0.11	98.646	98.671	7.54	147.0	96.0	75.0	7.42	5.6	19.0	13.6					
11/24/2015	7.01	0.10	8.8	5.2	4.6	450	235	7	16.3	7.9	3.4	<0.01	<0.01	<0.01							98.935	98.406	7.43	96.0	124.0	105.0	7.38	6.5	22.8	16.6					
11/25/2015	6.95	0.10	12.2	9.8	5.2	622	265	5	16.5	7.7	4.2	<0.01	<0.01	<0.01							99.111	98.460	7.34	105.0	87.0	76.0	7.34	6.4	21.6	16.8					
11/26/2015	7.03	0.10	8.8	7.8	4.4	396	198	3	15.6	7.9	1.3	<0.01	<0.01	<0.01							99.093	98.053	7.23	129.0	104.5	89.0	7.26	6.6	18.4	14.4					
11/27/2015	6.80	<0.01	9.2		2.8	430	131	3	15.9	7.7	1.5	<0.01	<0.01	<0.01							97.778	98.663	7.41	93.0	110.0		7.44	2.5	17.2						
11/28/2015	7.04	0.00	12.0		2.3	600	115	1	16.5	7.5	1.6	<0.01	<0.01	<0.01							98.783	97.380	7.41	96.0	92.0		7.35	3.1	19.2						
11/29/2015	6.98	0.00	10.2	6.8	2.7	442	117	2	15.5	7.1	1.2	<0.01	<0.01	<0.01							99.118	97.671	7.56	102.0	72.0	58.0	7.36	5.4	20.0	16.2					
11/30/2015	7.01	<0.10	10.0	6.4	4.7	456	214	2	14.9	7.6	2.1	<0.01	<0.01	<0.01		0.55	25	0.11	5	0.21	98.743	98.457	7.49	87.0	67.0	55.0	7.14	6.8	23.6	17.0					
MMAVG													MMAVG			0.48																			
Min.	6.8	0.00	5	3	2	204	115	1	14.9	6.6	1			<0.01		0.28	12	0.11	5	0.08	97.00	94.96	7.2	21.6	60.0	55.0	7.1	2.0	14.0	9.4	46.0	74	0.53	21.0	<0.20
Max.	7.2	0.50	37	30	23	1926	1200	34	19.5	8.1	5			<0.01		0.55	25	0.19	10	0.21	99.44	99.25	7.7	216.0	760.0	628.0	7.6	19.2	1190.6	71.0	46.0	74	0.53	21.0	<0.20
Total																																			
Average	7.0	<0.11	11	8	5	545	267	6	17.2	7.6	2			<0.01		0.40	19	0.15	7	0.12	98.63	98.19	7.4	115.7	153.8	136.9	7.3	8.4	70.8	25.5	46.0	74	0.53	21.0	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
11/01/2015	7,170	8,300	130	6,480	9,630	13,170	7.81	6.53	1,785,600	2,088,000	50,081	57,973					63	69	6,680	4,690	5,140	3,670	13,220	10,070	7.37	8.57	1,656,000	1,209,600	68,943	48,404					60	60
11/02/2015	6,670	8,190	5,060	6,350	6,990	13,770	8.30	6.20	1,598,400	2,059,200	46,588	57,205					54	65	6,740	4,600	5,180	3,590	12,900	10,000	7.30	8.40	1,540,800	1,339,200	69,562	47,475	2,240	20,567	3,577	35,829	56	59
11/03/2015	7,280	8,560	5,520	6,570	10,740	12,790	7.62	7.01	1,699,200	2,102,400	50,849	59,789			4,132	36,380	55	58		4,760		3,580		13,930		8.32		1,929,600	86,694	49,127			4,206	36,360		53
11/04/2015	7,370	8,630	5,580	6,630	10,440	14,570	6.60	6.80	1,785,600	2,073,600	51,478	60,278	3,186	35,824	4,320	35,968	60	70		5,760		4,320		14,300	9.50	7.40		1,872,000		59,448			2,014	16,366		56
11/05/2015	7,020	8,470	5,540	6,620	9,850	14,830	7.80	6.70	1,872,000	2,030,400	49,033	59,161	3,277	34,938	4,422	36,134	51	54	1,970	4,710	1,650	3,770	3,600	13,920	7.50	8.50	1,641,600	1,224,000	20,332	48,611			3,495	33,354	71	57
11/06/2015	7,060	9,690	5,460	7,500	10,290	14,390	7.60	5.90	1,814,400	2,088,000	49,312	67,682	735	8,389	1,000	8,115	51	52	2,580	5,100	2,160	4,030	4,280	14,530	8.50	6.90	1,728,000	1,252,800	26,628	52,636			2,556	21,849	54	53
11/07/2015	7,370	8,000	5,970	6,410	10,500	13,660	6.36	5.60	1,641,600	2,059,200	51,478	55,878					58	63	2,660	5,230	2,360	4,280	5,120	15,030	7.86	6.60	1,771,200	1,224,000	27,453	53,978					68	57
11/08/2015	7,720	8,760	5,930	6,790	9,720	12,830	7.05	6.56	1,670,400	2,073,600	53,922	61,186					56	53	3,480	5,740	2,780	4,500	5,200	15,660	8.19	7.15	1,627,200	1,224,000	35,916	59,241					58	56
11/09/2015	8,060	8,360	6,360	6,690	11,220	12,860	7.37	6.48	1,526,400	1,929,600	56,297	58,393	8,022	91,656	6,514	58,907	57	62	3,280	5,810	2,750	4,700	5,670	15,320	8.46	7.25	1,598,400	1,137,600	33,852	59,964			1,926	14,950	64	59
11/10/2015	8,190	8,930	6,420	7,140	9,860	14,300	7.43	6.21	1,756,800	2,044,800	57,205	62,374	5,076	59,757	5,343	44,800	56	56	3,810	5,800	3,180	4,650	6,150	14,200	8.41	7.58	1,872,000	1,468,800	39,322	59,860			4,687	36,187	60	57
11/11/2015	7,000	5,640	5,520	4,550	13,710	9,380	7.60	8.08	1,699,200	2,044,800	48,893	39,394	3,858	36,335	6,179	71,810	53	53	4,100	4,950	3,270	3,920	7,670	15,700	8.13	8.00	1,872,000	1,238,400	42,315	51,088			4,714	35,890	56	55
11/12/2015	7,380	3,840	5,810	3,140	11,960	6,440	7.26	8.65	1,756,800	2,030,400	51,547	26,821			1,858	28,167	54	52	4,610	5,580	3,730	4,550	7,990	16,510	8.04	7.87	1,872,000	1,281,600	47,579	57,590			9,731	71,188	54	52
11/13/2015	8,060		6,500		14,120		6.21	9.65	2,865,600		56,297		4,263	36,202			55		5,540	5,270	4,190	4,070	9,190	14,400	6.51	6.64	1,742,400	1,252,800	57,177	54,390			7,831	63,143	56	55
11/14/2015	8,640	5,130	6,730	4,100	15,960	12,220	6.82	8.55	2,044,800	2,361,600	60,348	35,832					66	57	5,210	4,480	4,150	3,610	10,590	16,470	7.06	6.39	1,670,400	1,166,400	53,771	46,237					63	69
11/15/2015	9,230	2,410	7,210	2,040	14,320	7,300	7.48	10.00	1,915,200	2,304,000	64,469	16,833					61	50	5,690	5,190	4,450	4,080	11,350	15,840	7.75	7.69	1,684,800	1,180,800	58,725	53,565					58	54
11/16/2015	9,280	780	7,370	760	12,970	1,000	7.56	10.00	2,232,000	2,376,000	64,818	5,448	4,372	36,610			65	77	5,590	5,180	4,430	4,130	10,130	15,710	7.56	7.42	1,569,600	1,036,800	57,693	53,461	3,345	36,171	1,298	9,999	63	58
11/17/2015	9,080	7,580	7,280	6,160	13,560	10,760	8.06	7.64	2,606,400	2,635,200	63,422	52,944	3,912	35,480	721	14,215	71	66	5,450	4,300	4,410	3,550	10,440	16,560	8.29	8.44	1,699,200	921,600	56,248	44,379	3,201	35,444	3,253	24,255	59	56
11/18/2015	8,820	7,500	7,450	5,980	12,930	9,000	7.39	8.21	2,592,000	2,606,400	61,605	52,386	3,814	36,151	3,515	36,475	67	63	5,690	5,260	4,430	4,270	10,620	16,270	8.39	8.05	1,540,800	1,080,000	58,725	54,287	3,171	36,741	4,702	35,513	58	55
11/19/2015	8,800	7,970	6,840	6,460	12,370	11,390	7.14	7.82	2,592,000	2,692,800	61,466	55,668	3,879	36,154	3,457	33,374	63	60	5,540	5,380	4,440	4,330	9,790	16,150	8.07	7.56	1,569,600	1,166,400	57,177	55,526	2,878	36,171	4,220	33,475	58	56
11/20/2015	5,260	7,910	4,280	6,360	12,200	11,010	9.10	8.56	2,548,800	2,721,600	36,740	55,249	3,654	34,501	3,470	35,471	53	53	5,290	2,830	4,210	2,370	11,770	15,650	8.13	9.73	1,598,400	1,051,200	54,597	29,208	3,251	36,638	4,592	34,980	55	53
11/21/2015	8,460	7,620	6,700	6,140	12,560	10,630	7.80	7.60	2,476,800	2,678,400	59,091	53,224			2,267	24,347	56	53	5,490	4,550	4,230	3,630	10,000	16,760	8.40	8.50	1,569,600	1,008,000	56,661	46,959			3,298	23,798	55	55
11/22/2015	9,030	8,110	7,150	6,510	10,420	10,600	7.40	6.90	2,433,600	2,635,200	63,072	56,646					53	53	5,740	4,350	4,690	3,650	9,190	15,000	8.10	8.10	1,526,400	936,000	59,241	44,895					49	58
11/23/2015	8,760	8,540	6,910	6,710	10,330	11,460	7.37	6.27	2,361,600	2,649,600	61,186	59,650	5,207	59,913	5,354	60,562	67	64	5,500	4,560	4,160	3,600	19,320	15,960	7.88	8.00	1,512,000	878,400	56,764	47,063	1,352	15,473	2,175	15,260	60	57
11/24/2015	8,560	8,230	6,800	6,460	14,280	13,330	8.20	7.30	2,505,600	2,721,600	59,789	57,484	3,720	38,353	3,282	35,796	53	57	5,670	4,810	4,420	3,760	11,350	17,240	8.32	8.68	1,569,600	1,224,000	58,519	49,643	3,043	31,632	4,218	32,473	53	60
11/25/2015	8,110	8,700	6,410	6,870	13,700	14,120	8.55	7.59	2,592,000	2,836,800	56,646	60,767	1,493	17,830	2,952	32,724	62	66	5,200	5,010	4,060	4,000	12,270	17,400	8.47	8.93	1,612,800	1,123,200	53,668	51,707	3,461	33,505	3,779	31,459	62	64
11/26/2015	8,440	8,580	6,640	6,780	10,470	11,950	8.42	7.20	2,505,600	2,851,200	58,951	59,929					65	69	5,240	5,550	4,080	4,560	8,730	15,580	8.91	7.96	1,555,200	1,310,400	54,081	57,280	0	0	0	0	59	63
11/27/2015	8,740	9,440	6,790	7,480	11,990	14,390	8.27	6.52	2,476,800	2,750,400	61,047	65,936	3,483	35,543	3,858	35,651	61	66	5,200	6,240	4,050	4,900	11,420	16,160	8.44	7.46	1,612,800	1,224,000	53,668	64,401	985	11,570	1,836	12,950	62	63
11/28/2015	8,400	8,870	6,740	7,130	10,220	13,000	8.27	6.32	2,390,400	2,750,400	58,672	61,955					64	78	5,440	5,920	4,330	4,950	9,400	15,970	7.96	7.67	1,641,600	1,224,000	56,145	61,099	1,882	23,014	3,405	24,764	57	57
11/29/2015	8,100	9,370	6,530	7,540	8,510	13,360	9.15	7.05	2,390,400	2,793,600	56,576	65,447					56	64	5,690	6,540	4,630	5,440	9,060	14,930	8.63	8.06	1,641,600	1,281,600	58,725	67,498					53	54
11/30/2015	7,700	9,530	6,060	7,460	7,720	12,960	9.66	7.24	2,448,000	2,822,400	53,783	66,565			1,718	15,480	61	65	5,750	6,610	4,520	5,350	8,680	14,160	9.01	8.40	1,598,400	1,684,800	59,344	68,220	2,636	35,340	6,561	49,983	52	55
MMAVG																																				
Min.	5,260	780	130	760	6,990	1,000	6	6	1,526,400	1,929,600	36,740	5,448	735	8,389	721	8,115	51	50	1,970	2,830	1,650	2,370	3,600	10,000	7	6	1,512,000	878,400	20,332	29,208	0	0	0	0	49	52
Max.	9,280	9,690	7,450	7,540	15,960	14,830	10	10	2,865,600	2,851,200	64,818	67,682	8,022	91,656	6,514	71,810	71	78	6,740	6,610	5,180	5,440	19,320	17,400	10	10	1,872,000	1,929,600	69,562	68,220	3,461	36,741	9,731	71,188	71	69
Total									64,584,000	69,811,200	1,674,661	1,548,097	61,951	633,636	64,362	644,376											46,094,400	37,152,000	1,432,831	1,597,240	31,445	352,266	88,074	694,025		
Average	7,992	7,643	6,123	6,062	11,451	11,775	8	7	2,152,800	2,407,283	55,822	53,383	3,872	39,602	3,576	35,799	59	61	4,958	5,159	3,931	4,127	9,468	15,179	8	8	1,646,229	1,238,400	51,173	53,241	2,419	27,097	3,829	30,175	58	57

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
12/01/2015	6.02	11.00	4.04	0.30	0.249	0.000	41,796		34.0	16.2	7.59	380	634	19,079	31,831		7.49	4.1	152	127	252	7,631	12,652		
12/02/2015	7.84	17.15	4.30	0.40	0.231	0.000	41,356		38.0	16.8	7.64	630	428	41,193	27,985		7.41	2.0	118	101	189	7,716	12,358		
12/03/2015	7.31	10.25	4.04	0.00	0.231	0.000	64,852		44.0	15.7	7.61	615	592	37,494	36,092		7.43	6.0	205	174	240	12,498	14,632		
12/04/2015	6.76	11.66	3.94	0.00	0.233	0.000	60,901		47.0	15.5	7.66	101	500	5,694	28,189		7.30	2.0	143	112	125	8,062	7,047		
12/05/2015	6.06	10.45	2.74	0.00	0.231	0.000	28,165		28.0	14.9	7.69	281	372	14,202	18,801		7.43	1.8	129	105	156	6,520	7,884		
12/06/2015	5.49	8.49	2.42	0.00	0.245	0.000			35.0	14.4	7.67	282	318	12,912	14,560		7.38	2.1	103	84	192	4,716	8,791		
12/07/2015	6.06	10.68	3.26	0.00	0.233	0.000	34,224		52.0	15.3	7.61	377	562	19,054	28,404		7.46	2.1	133	106	203	6,722	10,260		
12/08/2015	6.21	10.39	3.48	0.00	0.239	0.000	48,369		36.0	15.4	7.58	384	730	19,888	37,808		7.26	15.0	352	306	351	18,231	18,179		
12/09/2015	6.37	9.60	3.37	0.00	0.234	0.000	36,517		42.0	15.5	7.63	750	608	39,844	32,300		7.43	17.0	382	338	408	20,294	21,675		
12/10/2015	6.50	9.74	3.43	0.00	0.297	0.000	32,127		56.0	15.2	7.59	780	616	42,284	33,393		7.25	17.0	686	620	615	37,188	33,339		
12/11/2015	6.41	9.38	3.64	0.00	0.263	0.000	52,188		54.0	15.1	7.55	204	678	10,906	36,245		7.20	25.0	638	563	288	34,107	15,396		
12/12/2015	6.12	10.13	2.37	0.00	0.264	0.000	55,613		53.0	15.0	7.60	240	485	12,250	24,755		7.25		328	288	210	16,741	10,719		
12/13/2015	5.33	8.97	2.27	0.00	0.256	0.000	3,340		53.0	14.0	7.60	294	432	13,069	19,203		7.64	2.6	114	96	152	5,068	6,757		
12/14/2015	6.55	19.38	2.27	0.60	0.262	0.000	52,217		41.0	14.8	7.50	315	724	17,208	39,550		7.56	2.1	113	95	137	6,173	7,484		
12/15/2015	4.23	7.75	3.52	0.10	0.262	0.000	44,573		52.0	14.1	7.64	336	640	11,853	22,578		7.54	0.9	87	74	161	3,069	5,680		
12/16/2015	2.82	10.04	2.27	0.00	0.214	0.000	51,906		38.0	14.6	7.72	600	676	14,111	15,899		7.60	1.2	111	98	179	2,611	4,210		
12/17/2015	7.82	15.25	1.07	0.50	0.275	0.000	44,367		41.0	14.8	7.66	456	590	29,740	38,479		7.59	11.0	203	178	208	13,239	13,566		
12/18/2015	7.65	15.26	1.08	0.00	0.206	0.000	47,965		46.0	14.4	7.70	525	716	33,496	45,682		7.50	15.0	342	310	251	21,820	16,014		
12/19/2015	5.70	10.19	3.07	0.00	0.222	0.000	25,248		35.0	14.7	7.70	480	788	22,818	37,460		7.50	11.5	274	246	252	13,025	11,980		
12/20/2015	5.62	9.47	3.22	0.00	0.229	0.000	5,020		38.0	14.7	7.66	426	646	19,967	30,279		7.47	2.0	120	96	176	5,624	8,249		
12/21/2015	6.11	9.76	2.80	0.10	0.239	0.000	21,490		42.0	14.2	7.55	405	750	20,638	38,218		7.52	1.8	108	94	162	5,503	8,255		
12/22/2015	6.99	14.05	2.96	0.30	0.213	0.000	33,901		40.0	13.9	7.59	300	690	17,489	40,225		7.51	1.1	109	91	174	6,354	10,144		
12/23/2015	8.25	28.32	4.16	1.40	0.179	0.675	49,331		46.0	14.4	7.50	405	647	27,866	44,517		7.60	1.8	114	105	126	7,844	8,669		
12/24/2015	12.83	13.18	5.54	0.00	0.248	0.000	8,721		50.0	14.2	7.60	267	330	28,570	35,311		7.60	2.0	101	83	105	10,807	11,235		
12/25/2015	8.11	10.83	5.05	0.00	0.559	0.000			53.0	13.6	7.52	228	334	15,421	22,591		7.52	2.0	83		114	5,614	7,711		
12/26/2015	7.51	16.28	4.21	0.30	0.298	0.000	30,631		35.0	12.9	7.50	450	408	28,185	25,554		7.53	2.0	102		86	6,389	5,386		
12/27/2015	9.28	13.32	5.11	0.00	0.268	0.000	2,483		42.0	11.1	7.58	306	282	23,683	21,825		7.67	1.0	75	56	75	5,805	5,805		
12/28/2015	7.47	11.56	4.85	1.00	0.281	0.000	61,378		30.0	14.0	7.66	705	442	43,921	27,537		7.71	2.0	125	107	216	7,787	13,457		
12/29/2015	7.14	12.29	1.97	0.00	0.278	0.000	4,584		28.0	13.2	7.64	585	248	34,835	14,768		7.69	1.3	80	75	186	4,764	11,076		
12/30/2015	6.93	11.99	4.96	0.00	0.288	0.000	17,396		27.0	13.4	7.66	366	366	21,153	21,153		7.65	1.4	102	86	177	5,895	10,230		
12/31/2015	8.09	12.55	4.79	0.00	0.297	0.000	32,955		41.0	12.5	7.44	287	366	19,364	24,694		7.41	2.0	109	93	147	7,354	9,918		
MMAVG	8.40																								
Min.	2.8	7.8	1.1	0.0		0.000	2,483		27.0	11.1	7.44	101	248	5,694	14,560		7.20	0.9	75	56	75	2611	4210		
Max.	12.8	28.3	5.5	1.4		0.675	64,852		56.0	16.8	7.72	780	788	43,921	45,682		7.71	25.0	686	620	615	37188	33339		
Total	211.6	379.4	106.2	5.0		0.675	1,033,614																		
Average	6.8	12.2	3.4	0.2		0.022	35,642		41.84	14.47	7.61	412	535	23167	29545		7.49	5.3	188	169	204	10489	11250		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
12/01/2015	6.74	0.10	12.6	8.6	5.0	633	251	3	14.7	7.7	2.7	<0.01	<0.01	<0.01							98.684	98.013	7.48	111.0	76.0	59.0	7.20	8.4	26.0	19.8					
12/02/2015	6.89	0.20	11.4	9.0	6.6	745	432	0	15.1	7.8	3.6	<0.01	<0.01	<0.01							98.952	97.336	7.43	78.0	55.0	45.0	7.17	7.5	21.8	16.2					
12/03/2015	6.91	0.10	10.8	7.0	6.3	658	384	3	15.0	7.8	2.5	<0.01	<0.01	<0.01							98.976	98.176	7.45	93.0	77.0	62.0	7.30	7.6	22.6	18.0	49.00	85.00	0.60	28.00	<0.20
12/04/2015	6.98	0.10	13.2	10.6	5.4	744	304	3	15.1	7.8	2.9	<0.01	<0.01	<0.01							94.653	97.360	7.39	60.0	70.0	53.0	7.33	6.6	27.4	21.6					
12/05/2015	7.00	<0.10	11.8	8.8	5.3	596	268	0	14.8	8.5	1.9	<0.01	<0.01	<0.01							98.114	96.828	7.48	87.0	70.0	52.0	7.45	6.1	23.6	18.6					
12/06/2015	7.11	<0.10	8.0	6.8	6.8	366	311	0	14.4	8.3	2.2	<0.01	<0.01	<0.01							97.589	97.484	7.59	90.0	45.0	39.0	7.42	7.0	17.4	16.4					
12/07/2015	6.98	<0.10	11.6	6.8	7.5	586	379	2	14.7	7.8	2.4	<0.01	<0.01	<0.01		0.58	29	0.14	7	0.21	98.011	97.936	7.49	102.0	59.0	47.0	7.33	7.8	24.8	17.4					
12/08/2015	6.79	0.10	11.4	3.8	6.0	590	311	4	14.8	7.7	2.9	<0.01	<0.01	<0.01							98.438	98.438	7.51	150.0	137.0	117.0	7.23	7.8	23.2	18.2					
12/09/2015	6.83	0.10	10.8	7.8	7.0	574	372	6	15.1	7.7	3.1	<0.01	<0.01	<0.01							99.067	98.224	7.50	144.0	151.0	131.0	7.32	7.6	21.2	17.2					
12/10/2015	6.96	0.10	11.2	7.6	5.6	607	304	1	15.8	7.5	2.3	<0.01	<0.01	<0.01							99.282	98.182	7.45	195.0	242.0	220.0	7.35	7.2	18.4	16.4					
12/11/2015	7.03	<0.10	12.8	8.8	5.8	684	310	23	15.6	7.2	2.0	<0.01	<0.01	<0.01							97.157	98.112	7.47	168.0	252.4	224.2	7.25	8.2	20.2	16.4					
12/12/2015	7.05	<0.10	7.0	5.4	4.0	357	204	17	15.5	7.2	1.7	<0.01	<0.01	<0.01							98.333	98.557	7.45	114.0	128.0	122.0	7.55	6.5	31.6	26.0					
12/13/2015	7.10	<0.10	6.2	4.0	5.1	276	227	2	15.6	7.3	1.8	<0.01	<0.01	<0.01							98.265	98.565	7.65	87.0	71.0	56.0	7.46	6.9	13.6	10.4					
12/14/2015	7.17	<0.10	9.6	8.4	6.0	524	328	4	15.8	7.2	1.9	<0.01	<0.01	<0.01		0.53	29	0.18	10	0.19	98.095	98.674	7.45	90.0	77.0	65.0	7.15	8.2	14.2	11.0					
12/15/2015	6.80	<0.10	7.2	4.6	3.9	254	138	8	15.7	7.4	2.5	<0.01	<0.01	<0.01							98.839	98.875	7.40	73.0	44.0	39.0	7.06	6.2	10.2	6.8					
12/16/2015	6.79	<0.10	7.2	5.6	4.1	169	96	2	14.9	7.7	2.2	<0.01	<0.01	<0.01							99.317	98.935	7.47	93.0	69.0	61.0	7.18	5.4	11.2	10.2					
12/17/2015	6.79	0.10	9.8	9.4	5.7	639	372	7	14.9	7.6	2.8	<0.01	<0.01	<0.01							98.750	98.339	7.41	73.0	97.0	85.0	7.20	6.0	12.4	10.6				19.00	
12/18/2015	7.02	<0.10	9.4	8.0	5.7	600	364	2	0.5	7.5	2.7	<0.01	<0.01	<0.01							98.914	98.687	7.40	108.0	132.0	117.0	7.30	7.2	15.6	13.6					
12/19/2015	7.00	<0.10	5.8	6.8	4.4	276	209	0	13.7	8.5	1.3	<0.01	<0.01	<0.01							99.083	99.264	7.40	120.0	120.0	107.0	7.50	12.6	20.2	16.8					
12/20/2015	7.00	<0.10	10.0	5.4	4.7	469	220	0	13.6	8.8	1.5	<0.01	<0.01	<0.01							98.897	98.452	7.58	91.8	54.0	43.0	7.50	14.6	20.2	16.4					
12/21/2015	7.10	<0.10	6.8	4.6	4.1	347	209	4	13.4	8.3	2.3	<0.01	<0.01	<0.01		0.37	19	0.10	5	0.15	98.988	99.093	7.54	105.0	60.0	50.0	7.31	10.1	14.2	10.6					
12/22/2015	6.88	<0.10	12.8	8.8	4.6	746	268	4	13.7	8.0	2.3	<0.01	<0.01	<0.01							98.467	98.145	7.58	114.0	85.0	76.0	7.20	5.9	13.6	10.0					
12/23/2015	6.89	<0.10	125.7	104.7	38.1	8,649	2,621	6	13.9	7.9	1.9	<0.01	<0.01	<0.01							90.593	80.572	7.60	76.2	69.0	65.0	7.10	60.0	246.5	202.0					
12/24/2015	6.80	0.10	7.6	7.0	6.1	813	653	2	13.3	8.2	1.6	<0.01	<0.01	<0.01							97.715	97.697	7.60	62.1	51.0	48.0	7.20	7.5	10.2	9.8					
12/25/2015	7.00	<0.10	4.8		2.7	325	183	1	13.9	9.1	1.0	<0.01	<0.01	<0.01							98.816	98.563	7.46	42.0	31.0		7.30	3.5	9.0						
12/26/2015	6.91	<0.01	7.8		3.6	489	225	1	13.6	8.7	2.6	<0.01	<0.01	<0.01							99.200	98.088	7.47	45.0	45.0		7.21	3.8	12.4						
12/27/2015	6.74	0.10	8.4	6.4	3.0	650	232	18	13.9	7.6	2.3	<0.01	<0.01	<0.01							99.020	97.021	7.56	68.0	40.0	27.0	7.21	2.9	10.8	7.6					
12/28/2015	6.91	<0.10	8.0	5.8	3.1	498	193	3	12.7	8.9	1.8	<0.01	<0.01	<0.01		0.28	17	0.08	5	0.14	99.560	98.190	7.59	96.0	67.0	61.0	7.31	2.9	12.4	8.4					
12/29/2015	7.06	0.10	7.0	5.6	5.0	417	298	5	12.0	9.2	2.1	<0.01	<0.01	<0.01							99.145	97.177	7.57	93.0	37.0	36.0	7.30	4.7	10.6	9.4					
12/30/2015	6.94	<0.10	6.4	5.2	4.5	370	260	0	12.2	8.9	1.8	<0.01	<0.01	<0.01							98.770	98.251	7.57	88.0	50.0	42.0	7.31	4.6	12.4	10.2					
12/31/2015	7.01	<0.10	5.8	6.0	5.3	391	358	3	12.2	8.3	1.7	<0.01	<0.01	<0.01							98.153	98.415	7.38	71.0	51.0	46.0	7.21	5.3	11.4	8.8					
MMAVG														MMAVG		0.49																			
Min.	6.7	<0.01	5	4	3	169	96	0	0.5	7.2	1			<0.01		0.28	17	0.08	5	0.14	90.59	80.57	7.4	42.0	31.0	27.0	7.1	2.9	9.0	6.8	49.0	85	0.60	19.0	<0.20
Max.	7.2	0.20	126	105	38	8649	2621	23	15.8	9.2	4			<0.01		0.58	29	0.18	10	0.21	99.56	99.26	7.7	195.0	252.4	224.2	7.6	60.0	246.5	202.0	49.0	85	0.60	28.0	<0.20
Total																																			
Average	6.9	<0.10	13	10	6	776	364	3	13.9	8.0	2			<0.01		0.44	24	0.13	7	0.17	98.25	97.60	7.5	96.4	84.3	75.7	7.3	8.6	24.5	20.5	49.0	85	0.60	23.5	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
12/01/2015	7,580	9,460	6,100	7,460	9,990	13,240	9.50	7.59	2,390,400	2,793,600	52,944	66,076			7,963	71,734	63	73	5,380	5,570	4,200	4,520	9,220	15,600	9.26	8.70	1,540,800	1,353,600	55,526	57,487			9,830	71,087	58	58
12/02/2015	7,890	8,800	6,250	6,890	11,000	17,860	9.06	7.17	2,606,400	2,736,000	55,110	61,466	1,278	12,190	3,737	34,497	68	80	5,440	4,870	4,300	3,990	9,300	15,810	8.94	8.74	1,699,200	1,353,600	56,145	50,262			4,781	34,725	59	58
12/03/2015	7,800	9,950	6,190	7,970	12,920	11,480	8.63	7.17	2,476,800	2,707,200	54,481	69,498	3,280	32,179	3,476	33,101	68	61	5,770	4,720	4,530	3,800	9,900	15,020	8.62	8.78	1,598,400	1,339,200	86,694	48,714			4,368	32,735	56	57
12/04/2015	8,160	8,890	6,440	6,920	10,810	13,010	8.82	7.27	2,448,000	2,707,200	56,996	62,094	3,291	33,717	3,838	35,704	71	77	5,400	4,620	4,190	3,700	10,370	15,220	8.98	8.87	1,512,000	1,281,600	55,732	47,682			4,600	35,478	61	58
12/05/2015	7,940	8,970	6,130	6,840	11,330	13,260	8.56	7.46	2,361,600	2,750,400	55,459	62,653	2,022	20,474			74	81	5,670	4,520	4,200	3,470	9,550	13,720	8.91	9.23	1,555,200	1,238,400	58,519	46,650					60	60
12/06/2015	7,890	9,560	6,230	7,520	8,610	13,180	8.81	7.30	2,462,400	2,764,800	55,110	66,774					72	77	5,800	4,560	4,540	3,660	9,430	12,390	9.22	8.80	1,641,600	1,238,400	59,860	47,063					57	64
12/07/2015	7,650	9,110	6,060	7,040	9,880	13,530	8.73	6.91	2,433,600	2,721,600	53,433	63,631	2,944	35,798	5,467	50,542	58	68	6,640	5,440	5,140	4,320	8,490	12,540	9.03	8.33	1,656,000	1,296,000	68,530	56,145					47	53
12/08/2015	7,360	9,520	5,950	7,630	9,710	12,940	8.60	6.93	2,476,800	2,779,200	51,408	66,495	3,286	36,309	12,929	121,591	52	65	5,580	4,880	4,420	3,950	8,890	11,600	8.97	8.00	2,188,800	1,756,800	57,590	50,365					61	55
12/09/2015	7,640	9,540	6,040	7,380	9,850	13,140	8.36	6.70	2,491,200	2,664,000	53,363	66,635			2,370	22,675	62	65	6,170	5,360	4,700	4,230	8,570	12,470	8.78	7.62	2,203,200	1,800,000	63,679	55,319					50	58
12/10/2015	7,460	8,830	5,880	6,920	9,650	13,010	7.94	6.49	2,505,600	2,664,000	52,106	61,675			7,579	70,676	67	76	6,060	5,720	4,670	4,660	8,920	13,130	8.44	7.12	2,188,800	2,016,000	62,544	59,035			4,552	40,415	59	61
12/11/2015	7,820	9,260	6,370	7,480	9,920	13,430	7.29	5.48	2,419,200	2,736,000	54,621	64,679			7,545	71,171	64	64	6,360	5,310	5,030	4,340	8,490	12,800	7.87	6.76	2,275,200	1,800,000	65,640	54,803			4,062	35,088	57	68
12/12/2015	7,970	9,030	6,400	7,260	9,910	12,760	6.73	4.40	2,419,200	2,664,000	55,668	63,072			2,707	25,822	75	80	6,380	5,680	4,930	4,630	8,900	12,800	7.47	6.40	2,188,800	1,814,400	65,846	58,622					67	67
12/13/2015	7,650	9,570	6,150	7,590	7,660	13,090	7.00	4.47	2,318,400	2,620,800	53,433	66,844					81	81	6,260	6,320	4,680	5,010	8,910	11,630	7.10	5.46	2,116,800	1,785,600	64,608	65,227					70	68
12/14/2015	7,390	9,580	5,920	7,500	8,640	13,130	7.70	4.40	2,419,200	2,649,600	51,617	66,914	4,518	70,722	4,558	41,755	68	84	6,520	6,010	5,050	4,870	9,180	12,100	7.30	5.70	2,160,000	1,785,600	67,291	62,028					63	72
12/15/2015	6,160	8,870	4,920	7,110	11,240	12,870	8.00	6.50	2,620,800	2,779,200	43,026	61,955			3,371	36,071	70	82	6,420	4,810	5,200	3,710	9,980	14,000	7.50	7.60	2,376,000	1,800,000	66,259	49,643	2,962	33,854	4,178	35,761	59	67
12/16/2015	6,980	8,840	5,710	7,150	9,150	12,640	8.60	7.00	2,404,800	2,721,600	48,754	61,745	16,193	36,783	3,714	34,741	69	77	6,370	5,270	5,060	4,430	9,150	12,660	8.50	7.80	2,116,800	1,800,000	65,743	54,390	3,087	36,435	4,213	36,108	58	66
12/17/2015	6,950	8,930	5,670	7,230	9,100	12,830	8.60	6.90	2,131,200	1,843,200	48,544	62,374	2,913	35,609	7,678	72,077	58	59	6,360	5,320	5,020	4,450	8,880	12,390	8.60	7.70	2,131,200	1,843,200	65,640	54,906					50	64
12/18/2015	6,460	8,380	5,410	6,900	9,870	12,850	8.30	7.50	2,491,200	2,721,600	45,121	58,532	3,101	36,548	7,452	71,483	68	68	6,190	4,640	5,000	4,010	10,040	13,260	8.40	8.30	2,188,800	1,756,800	63,885	47,888					53	65
12/19/2015	7,020	8,750	5,710	6,940	8,820	12,490	9.04	7.26	2,203,200	2,750,400	49,033	61,117					78	81	6,830	6,430	5,370	5,250	10,090	13,220	8.72	7.72	2,145,600	1,756,800	70,491	66,362					66	72
12/20/2015	6,500	8,440	5,300	6,700	8,420	12,280	9.43	7.33	2,347,200	2,649,600	45,401	58,951					80	82	6,430	6,150	5,120	5,050	10,000	13,390	9.19	8.14	2,116,800	1,785,600	66,362	63,473					70	70
12/21/2015	6,810	9,250	5,520	8,200	9,390	12,850	9.38	7.24	2,448,000	2,649,600	47,566	64,609	2,550	36,312	7,470	72,524	85	82	6,570	5,930	4,160	4,710	10,230	13,320	9.11	8.17	2,116,800	1,728,000	67,807	61,202					78	74
12/22/2015	6,460	9,050	5,290	7,260	6,870	12,600	9.46	7.09	2,620,800	2,592,000	45,121	63,212	2,935	35,545	3,771	35,706	64	63	7,240	6,320	5,680	5,140	10,800	13,600	8.88	7.91	2,318,400	1,800,000	74,722	65,227	3,325	38,708	3,929	34,873	55	62
12/23/2015	6,530	9,020	5,280	7,210	8,920	13,100	9.52	7.54	2,563,200	2,664,000	45,610	63,002	3,529	47,437	5,016	45,911	77	84	6,700	5,950	5,230	4,890	9,890	13,450	8.90	8.34	2,116,800	1,828,800	69,149	61,408	999	11,860	1,345	11,962	78	77
12/24/2015	4,280	8,110	3,450	6,440	11,490	13,030	10.00	9.30	2,491,200	2,707,200	29,895	56,646	5,999	70,969	7,498	70,644	58	62	6,040	3,150	4,740	2,580	11,670	14,000	9.28	10.00	2,088,000	1,728,000	62,337	32,510	1,097	12,205	1,364	11,918	61	70
12/25/2015	5,490	8,330	4,370	6,530	13,380	11,890	9.68	8.74	2,332,800	2,635,200	38,346	58,183	2,273	26,986	2,616	26,119	82	71	6,420	4,420	4,920	3,430	13,260	14,400	9.11	9.21	2,088,000	1,756,800	66,259	45,618					70	70
12/26/2015	6,140	8,570	5,020	6,780	11,560	14,240	10.00	8.98	2,433,600	2,664,000	42,886	59,859					85	85	6,980	5,060	5,310	4,010	13,710	15,260	9.36	9.32	2,174,400	1,800,000	72,039	52,223					76	73
12/27/2015	4,590	7,900	3,810	6,320	12,290	13,730	8.63	8.78	2,462,400	2,664,000	32,060	55,180					65	76	6,440	3,270	5,030	2,630	13,680	13,950	8.96	8.82	2,217,600	1,771,200	66,466	33,749					68	70
12/28/2015	6,110	8,290	4,560	6,180	10,020	11,700	9.74	9.08	2,462,400	2,563,200	42,677	57,904	3,980	47,628	4,226	43,310	84	91	6,850	4,550	5,270	3,700	11,550	12,870	9.33	9.65	2,160,000	1,944,000	70,697	46,959	1,267	12,042	1,342	12,001	77	79
12/29/2015	6,200	7,640	5,500	6,290	9,550	11,620	10.00	10.00	2,361,600	2,649,600	43,305	53,363	5,460	68,184	6,647	68,510	86	96	6,370	4,580	5,340	4,060	11,310	12,800	10.00	9.87	2,188,800	2,030,400	65,743	47,269	1,131	12,046	1,268	12,083	85	81
12/30/2015	6,130	7,540	4,980	6,070	9,100	10,990	10.00	10.00	2,404,800	2,736,000	42,817	52,665	4,087	49,494	4,836	49,900	87	93	7,150	4,660	5,680	3,860	11,780	12,860	9.95	10.00	2,188,800	1,785,600	73,793	48,095	2,868	28,230			88	84
12/31/2015	6,360	7,800	5,130	6,150	11,220	9,410	10.00	9.72	2,390,400	2,692,800	44,423	54,481			1,331	13,850	79	85	6,880	4,690	5,300	3,780	10,650	12,710	9.65	10.00	2,289,600	1,843,200	71,007	48,404	5,541	56,045	3,832	34,888	90	77
MMAVG																																				
Min.	4,280	7,540	3,450	6,070	6,870	9,410	7	4	2,131,200	1,843,200	29,895	52,665	1,278	12,190	1,331	13,850	52	59	5,380	3,150	4,160	2,580	8,490	11,600	7	5	1,512,000	1,238,400	55,526	32,510	999	11,860	1,268	11,918	47	53
Max.	8,160	9,950	6,440	8,200	13,380	17,860	10	10	2,620,800	2,793,600	56,996	69,498	16,193	70,969	12,929	121,591	87	96	7,240	6,430	5,680	5,250	13,710	15,810	10	10	2,376,000	2,030,400	74,722	66,362	5,541	56,045	9,830	71,087	90	84
Total									75,398,400	82,641,600	1,490,334	1,912,284	73,639	732,884	127,795	1,220,114											63,547,200	52,617,600	2,019,460	1,638,728	22,277	241,425	53,664	439,122		
Average	6,883	8,832	5,540	7,028	10,009	12,845	9	7	2,432,206	2,665,858	48,075	61,687	4,091	40,716	5,325	50,838	71	76	6,312	5,122	4,904	4,156	10,155	13,386	9	8	2,049,910	1,697,342	65,144	52,862	2,475	26,825	3,833	31,366	65	67

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
01/01/2016	7.68	11.71	4.57	0.00	0.402	0.000	4,279		36.0	12.7	7.66	210	230	13,451	14,732		7.65	1.5	85		116	5,444	7,430		
01/02/2016	7.32	12.64	4.80	0.00	0.314	0.000	3,085		32.0	11.9	7.60	140	326	8,547	19,902		7.53	1.5	103		132	6,288	8,058		
01/03/2016	7.37	12.13	4.40	0.00	0.376	0.000	3,175		32.0	11.6	7.58	210	264	12,908	16,227		7.55	1.5	97	79	140	5,962	8,605		
01/04/2016	6.74	11.81	4.52	0.00	0.387	0.000	15,521		23.0	14.3	7.59	372	508	20,911	28,555		7.65	1.5	88	72	141	4,947	7,926		
01/05/2016	6.51	11.56	4.14	0.00	0.383	0.000	20,179		18.0	13.9	7.63	356	558	19,328	30,296		7.60	4.0	119	105	186	6,461	10,099		
01/06/2016	6.55	11.26	4.44	0.00	0.381	0.000	33,923		33.0	13.2	7.36	354	652	19,338	35,617		7.42	2.1	111	95	147	6,064	8,030		
01/07/2016	6.43	10.99	3.81	0.00	0.413	0.000	17,827		36.0	13.4	7.34	390	476	20,914	25,526		7.40	1.4	96	71	179	5,148	9,599		
01/08/2016	6.15	9.76	3.63	0.00	0.370	0.000	8,871		30.0	13.1	7.37	332	512	17,029	26,261		7.11	35.0	1107	545	422	56,779	21,645		
01/09/2016	6.26	11.21	3.74	0.10	0.394	0.000	9,328		40.1	13.2	7.70	387	356	20,205	18,586		7.31	25.0	489	436	429	25,530	22,397		
01/10/2016	13.54	36.69	5.05	0.80	0.373	2.020			48.0	8.8	7.59	213	384	24,053	43,363		7.63	2.5	102	77	141	11,518	15,922		
01/11/2016	10.49	14.47	6.58	0.00	0.370	0.000	20,334		23.0	13.1	7.80	282	342	24,671	29,920		7.80	1.0	87	66	144	7,611	12,598		
01/12/2016	8.83	12.57	5.87	0.20	0.392	0.000	8,427		26.0	13.3	7.75	258	338	19,000	24,891		7.73	1.0	72	50	150	5,302	11,046		
01/13/2016	7.90	12.15	5.17	0.00	0.368	0.000	11,042		22.0	12.1	7.71	276	332	18,185	21,874		7.68	0.6	81	64	140	5,337	9,224		
01/14/2016	7.42	12.04	4.70	0.00	0.313	0.000	21,610		25.0	12.1	7.67	282	412	17,451	25,496		7.70	1.0	85	69	129	5,260	7,983		
01/15/2016	8.18	11.81	4.92	0.25	0.336	0.000	15,066		21.0	12.2	7.60	146	338	9,960	23,059		7.65	3.0	97	83	120	6,617	8,187		
01/16/2016	9.59	17.97	5.54		0.259	0.022			28.0	12.1	7.10	165	455	13,197	36,391		7.50	1.5	114	87	93	9,118	7,438		
01/17/2016	7.79	12.26	5.12	0.00	0.318	0.000			32.0	11.4	7.20	120	209	7,796	13,578		7.45		85	68	110	5,522	7,147		
01/18/2016	7.54	11.85	4.78	0.00	0.285	0.000	17,293		32.0	11.5	7.61	294	358	18,488	22,512		7.67	1.1	82	63	128	5,156	8,049		
01/19/2016	7.11	11.48	4.54	0.00	0.302	0.000	19,724		18.0	11.9	7.60	288	424	17,078	25,142		7.64	1.1	88	72	153	5,218	9,073		
01/20/2016	6.90	10.97	4.44	0.00	0.314	0.000	26,258		22.0	12.2	7.64	335	488	19,278	28,082		7.71	0.8	85	69	162	4,891	9,322		
01/21/2016	6.58	11.64	4.13	0.00	0.308	0.000	17,556		21.0	11.8	7.65	294	406	16,134	22,280		7.74	0.8	76	57	150	4,171	8,232		
01/22/2016	6.27	10.06	3.76	0.00	0.308	0.000	19,279		20.0	11.3	7.60	491	860	25,675	44,971		7.70	1.4	102	91	170	5,334	8,890		
01/23/2016	6.20	10.70	3.98	0.00	0.303	0.000	6,687		20.0	10.8	7.60	350	558	18,098	28,853		7.70	0.7	127	95	201	6,567	10,393		
01/24/2016	6.30	11.27	3.46	0.00	0.304	0.000			27.0	11.0	7.65	306	370	16,078	19,441		7.70	1.5	97	78	143	5,097	7,514		
01/25/2016	5.90	10.48	3.39	0.00	0.346	0.000	14,201		34.0	11.2	7.52	371	432	18,255	21,257		7.58	1.5	107	83	200	5,265	9,841		
01/26/2016	6.33	10.67	3.34	0.00	0.269	0.000	9,131		24.0	10.8	7.53	255	576	13,462	30,408		7.54	1.3	115	89	186	6,071	9,819		
01/27/2016	6.36	10.13	3.08	0.00	0.324	0.000	28,763		35.0	11.8	7.51	345	728	18,300	38,615		7.56	1.1	121	101	194	6,418	10,290		
01/28/2016	6.14	10.96	3.34	0.00	0.330	0.000	30,080		22.0	10.9	7.65	330	636	16,899	32,568		7.68	1.1	118	90	164	6,042	8,398		
01/29/2016	6.08	10.55	3.13		0.333	0.000	16,332		26.0	11.0	7.43	450	586	22,818	29,714		7.39	3.0	143		198	7,251	10,040		
01/30/2016	5.96	10.54	3.20	0.00	0.342	0.000			27.0	10.9	7.57	270	438	13,421	21,771		7.45	10.0	310		246	15,409	12,228		
01/31/2016	6.15	9.89	3.57	0.00	0.324	0.000	8,999		34.0	10.7	7.64	246	404	12,618	20,722		7.47	11.0	310	273	246	15,900	12,618		
MMAVG	8.05																								
Min.	5.9	9.8	3.1	0.0		0.000	3,085		18.0	8.8	7.10	120	209	7,796	13,578		7.11	0.6	72	50	93	4171	7147		
Max.	13.5	36.7	6.6	0.8		2.020	33,923		48.0	14.3	7.80	491	860	25,675	44,971		7.80	35.0	1107	545	429	56779	22397		
Total	224.6	384.2	133.1	1.4		2.042	406,970																		
Average	7.2	12.4	4.3	0.0		0.066	15,653		27.97	11.94	7.56	294	450	17211	26471		7.58	4.0	158	116	176	8958	10259		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
01/01/2016	6.96	0.10	7.0		5.3	448	339	1	12.8	8.9	1.8	<0.01	<0.01	<0.01							97.476	96.957	7.49	80.0	42.0		7.38	6.0	11.0						
01/02/2016	6.95	0.00	4.0		3.7	244	226	6	12.5	8.8	1.4	<0.01	<0.01	<0.01							97.357	98.773	7.54	66.0	51.0		7.36	5.1	9.8						
01/03/2016	7.09	0.00	5.6	3.6	3.8	344	234	10	12.6	8.8	1.3	<0.01	<0.01	<0.01							98.190	97.879	7.56	67.0	54.0	42.0	7.47	4.2	10.4	7.6					
01/04/2016	7.02	<0.10	8.2	5.8	4.4	461	247	5	12.6	8.7	2.7	<0.01	<0.01	<0.01		0.38	21	0.16	9	0.18	98.817	98.386	7.60	87.0	69.0	54.0	7.34	6.1	16.2	11.2					
01/05/2016	6.95	<0.10	7.2	4.4	4.1	391	223	6	12.4	8.9	2.1	<0.01	<0.01	<0.01							98.848	98.710	7.54	99.0	63.0	58.0	7.31	7.5	14.2	11.2					
01/06/2016	6.82	<0.10	10.0	8.4	4.4	546	240	11	12.2	9.0	1.8	<0.01	<0.01	<0.01							98.757	98.466	7.36	80.0	65.0	58.0	7.24	7.8	18.0	14.8					
01/07/2016	6.80	<0.10	6.8	3.2	6.2	365	332	7	12.0	9.2	1.8	<0.01	<0.01	<0.01							98.410	98.571	7.42	85.0	49.0	35.0	7.26	8.1	13.2	10.0	160.00	51.00	7.10	39.00	0.20
01/08/2016	6.99	<0.10	4.4	0.6	4.2	226	215	6	12.0	8.8	1.6	<0.01	<0.01	<0.01							98.735	99.141	7.13	147.0	225.0	195.0	7.18	8.3	16.0	10.4					
01/09/2016	6.75	<0.10	7.2	5.6	3.7	376	193	1	12.3	8.9	1.5	<0.01	<0.01	<0.01							99.044	97.978	7.26	132.0	189.0	165.0	7.20	8.7	17.4	13.6					
01/10/2016	6.82	0.10	191.0	144.0	60.9	21,568	6,877	0	12.7	8.8	2.1	<0.01	<0.01	<0.01							71.408	50.260	7.59	82.0	112.0	87.0	7.14	117.0	397.0	324.0					
01/11/2016	6.88	0.30	11.8	8.8	14.3	1,032	1,251	7	10.5	7.8	3.4	<0.01	<0.01	<0.01		0.46	40	1.63	143	0.12	94.929	96.550	7.71	81.0	47.0	38.0	7.46	19.0	18.8	14.2					
01/12/2016	7.05	0.20	9.6	6.4	5.9	707	434	1	10.8	8.3	3.8	<0.01	<0.01	<0.01							97.713	97.160	7.65	78.0	50.0	36.0	7.33	6.9	15.4	10.0					
01/13/2016	6.95	0.30	8.8	4.8	5.1	580	336	25	11.0	8.6	3.5	<0.01	<0.01	<0.01							98.152	97.349	7.57	90.0	88.0	66.0	7.27	7.5	17.4	12.8					
01/14/2016	6.96	0.20	7.0	4.2	5.7	433	353	0	10.7	8.9	3.3	<0.01	<0.01	<0.01							97.979	98.301	7.59	132.0	144.0	110.0	7.24	7.7	14.2	10.8					
01/15/2016	6.95	0.80	10.0	7.8	3.7	682	252	87	10.9	9.0	8.2	<0.01	<0.01	<0.01							97.466	97.041	7.58	66.0	124.0	99.8	7.21	2.4	14.4	12.2					
01/16/2016	6.97	<0.10	67.2	54.4	22.8	5,375	1,824	13	10.8	9.1	7.0	<0.01	<0.01	<0.01							86.182	85.231	7.45	111.0	198.6	157.0	7.25	44.4	183.2	147.0					
01/17/2016	6.80	<0.10	9.8	7.4	5.4	637	351	8	10.5	9.0	4.8	<0.01	<0.01	<0.01							95.500	95.311	7.50	48.0	39.8	31.6	7.27	6.7	15.0	12.6					
01/18/2016	6.88	<0.10	9.0	5.0	5.0	566	314	3	10.0	9.0	3.7	<0.01	<0.01	<0.01		0.44	28	0.12	8	0.08	98.299	97.486	7.69	45.0	45.0	33.0	7.70	7.8	20.2	15.6					
01/19/2016	7.07	<0.10	9.0	6.2	7.8	534	463	8	10.0	9.1	3.8	<0.01	<0.01	<0.01							97.292	97.877	7.55	73.0	44.0	38.0	7.20	12.9	18.8	16.4					
01/20/2016	6.90	<0.10	11.8	9.8	5.3	679	305	9	10.8	9.2	3.8	<0.01	<0.01	<0.01							98.418	97.582	7.60	75.0	41.0	30.0	7.26	7.4	16.2	13.4					
01/21/2016	6.94	<0.10	7.4	4.2	6.0	406	329	4	10.5	9.4	3.1	<0.01	<0.01	<0.01							97.959	98.177	7.67	77.0	33.0	23.0	7.39	9.3	16.0	12.6					
01/22/2016	7.17	<0.10	7.6	7.0	9.8	397	512	2	10.4	9.3	3.6	<0.01	<0.01	<0.01							98.004	99.116	7.60	89.0	57.0	56.0	7.40	11.0	18.4	16.8					
01/23/2016	6.90	<0.10	7.8	6.8	6.4	403	331	1	10.6	9.7	1.8	<0.01	<0.01	<0.01							98.171	98.602	7.50	105.0	58.0	47.0	7.30	12.9	19.8	16.8					
01/24/2016	6.90	<0.10	10.2	5.4	5.4	536	284	3	10.2	10.1	1.5	<0.01	<0.01	<0.01							98.235	97.243	7.57	74.0	38.0	30.0	7.35	7.8	16.2	13.4					
01/25/2016	6.92	<0.10	11.2	5.8	4.3	551	212	3	10.5	9.8	2.5	<0.01	<0.01	<0.01		0.53	26	0.11	5	0.12	98.841	97.407	7.50	93.0	55.0	42.0	7.15	7.5	16.0	12.6	43.00		0.80	21.00	
01/26/2016	6.75	<0.10	9.0	4.2	3.6	475	190	4	10.7	8.6	3.7	<0.01	<0.01	<0.01							98.588	98.438	7.47	96.0	56.0	44.0	7.06	4.7	14.4	11.2					
01/27/2016	6.70	0.10	7.0	4.2	5.0	371	265	6	11.3	8.7	2.9	<0.01	<0.01	<0.01							98.551	99.038	7.48	96.0	63.0	49.0	7.16	7.2	17.4	14.2					
01/28/2016	6.71	<0.10	7.0	3.6	6.3	358	323	2	10.9	8.8	2.7	<0.01	<0.01	<0.01							98.091	98.899	7.62	81.0	64.0	41.0	7.35	8.3	18.8	13.6					
01/29/2016	7.00	<0.10	9.2		5.0	467	254	6	11.1	8.9	2.2	<0.01	<0.01	<0.01							98.889	98.430	7.38	96.0	49.0		7.34	9.0	27.4						
01/30/2016	6.96	0.10	5.6		5.1	278	254	0	10.9	9.4	2.9	<0.01	<0.01	<0.01							98.111	98.721	7.46	108.0	120.0		7.48	8.1	22.4						
01/31/2016	7.10	0.10	-5.8	11.0	8.0	-297	410	2	11.3	9.5	2.7	<0.01	<0.01	<0.01							96.748	101.436	7.58	120.0	131.0	110.0	7.38	7.6	17.0	14.8					
MMAVG														MMAVG		0.46																			
Min.	6.7	0.00	-6	1	4	-297	190	0	10.0	7.8	1			<0.01		0.38	21	0.11	5	0.08	71.41	50.26	7.1	45.0	33.0	23.0	7.1	2.4	9.8	7.6	43.0	51	0.80	21.0	0.20
Max.	7.2	0.80	191	144	61	21568	6877	87	12.8	10.1	8			<0.01		0.53	40	1.63	143	0.18	99.04	101.44	7.7	147.0	225.0	195.0	7.7	117.0	397.0	324.0	160.0	51	7.10	39.0	0.20
Total																																			
Average	6.9	<0.14	16	13	8	1295	593	4	11.2	9.0	3			<0.01		0.45	29	0.51	41	0.13	96.75	96.15	7.5	89.0	79.5	65.8	7.3	12.7	34.2	29.4	101.5	51	3.95	30.0	0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
01/01/2016	6,690	7,860	5,510	6,330	10,060	11,760	10.00	9.60	2,462,400	2,750,400	46,728	54,900			2,104	21,896	75	67	6,540	4,310	5,220	3,610	10,050	12,540	9.60	9.70	2,174,400	1,800,000	67,498	44,482					69	81
01/02/2016	6,810	8,270	6,280	5,840	11,760	10,020	10.00	9.70	2,376,000	2,736,000	47,566	57,764					73	67	6,450	4,710	5,080	4,010	9,890	12,540	9.60	9.90	2,217,600	1,713,600	66,569	48,611					73	70
01/03/2016	6,220	7,680	5,360	6,280	10,720	11,240	9.90	9.70	2,404,800	2,692,800	43,445	53,643					109	98	6,270	4,130	5,050	3,560	10,140	12,110	9.50	9.60	2,145,600	1,785,600	86,694	42,625					101	97
01/04/2016	6,710	8,110	5,370	6,320	12,060	12,270	10.00	9.72	2,476,800	2,678,400	46,868	56,646	3,943	39,200	4,030	39,380	82	78	6,640	4,820	5,050	3,880	11,410	12,590	9.70	9.59	2,188,800	1,872,000	68,530	49,746	1,145	12,740	1,317	12,784	80	77
01/05/2016	6,580	7,450	5,480	6,150	11,610	12,960	10.00	10.00	2,462,400	2,750,400	45,960	52,036	1,550	17,506	1,920	20,042	82	78	6,550	4,470	5,080	3,640	12,460	13,150	10.00	10.00	2,131,200	1,972,800	67,601	46,134	3,405	36,409	3,948	36,279	90	85
01/06/2016	6,900	4,870	5,520	3,860	12,270	7,760	9.73	10.00	2,577,600	2,678,400	48,195	34,016	3,102	35,071	2,792	36,198	90	70	6,320	4,240	4,960	3,560	11,020	13,020	10.00	10.00	2,289,600	2,016,000	65,227	43,760	5,828	71,673	7,470	71,090	97	97
01/07/2016	7,090	7,790	5,490	6,320	10,050	10,860	9.70	10.00	2,476,800	2,779,200	49,522	54,411	5,204	57,575	4,747	56,550	83	83	6,510	4,450	5,040	3,610	11,160	12,870	10.00	10.00	2,188,800	2,030,400	67,188	45,927	466	5,867	585	5,725	81	85
01/08/2016	7,430	8,070	6,070	6,540	9,880	11,610	9.56	10.00	2,376,000	2,764,800	51,897	56,367	4,005	42,994	4,080	43,106	98	92	7,030	5,010	5,760	4,230	12,880	12,690	10.00	10.00	2,145,600	1,857,600	72,555	51,707					95	96
01/09/2016	7,660	5,270	6,190	4,230	10,060	6,410	8.79	9.99	2,376,000	2,836,800	53,503	36,810					85	65	6,710	5,310	5,140	4,310	9,280	12,870	9.84	9.67	2,160,000	1,872,000	69,252	54,803					82	87
01/10/2016	7,510	3,170	6,100	2,600	10,330	3,560	8.46	10.00	2,534,400	2,995,200	52,455	22,142					72	63	6,690	5,340	5,240	4,380	10,430	13,120	9.60	9.40	2,275,200	1,771,200	69,046	55,113					73	77
01/11/2016	4,430	200	3,890	460	10,860	240	6.19	10.00	2,635,200	3,787,200	30,942	1,397					81	250	6,010	3,010	4,740	2,590	11,120	12,750	9.70	7.54	2,217,600	2,102,400	62,028	31,065	6,248	72,524	7,493	72,400	93	83
01/12/2016	5,930	6,330	5,310	5,400	12,580	8,280	9.68	9.86	2,764,800	3,844,800	41,420	44,213					98	101	5,650	3,300	4,860	3,170	10,940	12,750	10.00	10.00	2,188,800	1,900,800	58,312	34,058	5,356	50,990	4,895	51,300	53	152
01/13/2016	6,610	5,300	5,650	4,530	12,560	7,390	9.63	10.00	2,649,600	2,923,200	46,169	37,019	7,519	72,249	4,365	72,601	95	89	5,670	3,550	4,790	3,220	9,990	11,840	10.00	10.00	2,160,000	1,771,200	58,519	36,639	1,789	20,927	2,217	21,370	97	96
01/14/2016	7,060	3,390	6,260	3,010	12,350	2,270	9.49	10.00	2,937,600	2,908,800	49,312	23,678	7,281	71,669	2,927	70,937	102	89	5,890	3,430	4,980		10,100	11,450	10.00	10.00	2,102,400	1,756,800	60,789	35,400					102	108
01/15/2016	7,460	2,980	6,080	2,450	12,430	4,300	9.64	10.00	3,024,000	3,888,000	52,106	20,815	5,405	56,110	1,563	55,379	90	74	6,210	4,480	4,870	3,750	10,320	12,640	10.00	10.00	2,289,600	1,814,400	64,092	46,237					89	83
01/16/2016	7,260	1,870	5,900	1,680	12,110	2,740	6.46	10.00	3,196,800	3,801,600	50,709	13,061	1,495	16,153	407	15,844	98	80	6,670	4,070	5,270	3,390	10,440	12,600	9.57	8.04	2,160,000	1,785,600	68,839	42,005					89	86
01/17/2016	7,490	1,530	6,100	1,380	12,210	1,870	9.93	10.00	2,966,400	3,830,400	52,316	10,687					90	78	6,240	4,020	5,120	3,620	10,430	13,070	10.00	9.55	2,203,200	1,843,200	64,401	41,489					103	92
01/18/2016	7,320	1,190	5,960	1,060	13,110	1,570	8.58	10.00	3,139,200	3,844,800	51,128	8,312	3,632	35,684	68	5,185	90	84	6,670	4,760	5,290	3,940	10,830	13,040	9.72	8.02	2,203,200	1,814,400	68,839	49,127	1,176	12,000	4,560	40,800	83	71
01/19/2016	8,970	90	6,880		13,210	870	9.90	10.00	3,038,400	3,715,200	62,653	629					80	667	6,600	4,530	5,280	3,740	10,430	13,230	10.00	8.23	2,160,000	2,073,600	68,117	46,753	8,844	93,877	9,860	86,382	102	88
01/20/2016	7,290	5,510	5,890	4,520	11,110	7,290	10.00	9.81	2,894,400	3,096,000	50,919	38,486					85	80	6,280	4,290	5,010	3,580	8,890	13,530	10.00	10.00	2,188,800	2,088,000	64,814	44,276	6,815	74,223	8,790	77,897	84	84
01/21/2016	7,590	5,060	6,210	4,240	12,130	7,430	10.00	9.86	2,563,200	3,268,800	53,014	35,343					94	87	5,970	5,850	4,740	4,600	8,420	13,180	10.00	10.00	2,188,800	1,958,400	61,615	60,376	2,349	31,685			91	68
01/22/2016	9,320	3,890	7,510	3,180	10,470		10.00	9.55	2,808,000		65,098	27,171	3,818	43,265			90	77	5,950	4,860	4,620	3,990	8,540	12,720	10.00	10.00	2,145,600	1,828,800	61,408	50,159			1,603	14,040	101	93
01/23/2016	8,120	5,930	6,510	4,790	11,140	8,020	9.68	10.00	2,808,000	3,254,400	56,716	41,420	2,257	24,790			95	103	6,270	4,890	4,880	3,930	9,040	12,850	10.00	9.85	2,217,600	1,857,600	64,711	50,468	1,914	23,979	5,668	50,997	88	88
01/24/2016	8,090	6,220	6,430	4,990	11,380	8,640	9.35	9.22	2,736,000	3,312,000	56,507	43,445	2,295	24,441			99	105	6,080	4,930	4,670	3,940	8,580	12,710	10.00	9.01	2,160,000	1,771,200	62,750	50,881	1,768	23,978	2,514	23,712	99	95
01/25/2016	8,140	6,270	6,580	4,430	9,620	9,480	9.57	9.81	2,779,200	3,196,800	56,856	43,794	1,151	16,446			90	97	5,800	5,010	5,290	4,100	8,060	12,260	10.00	9.50	2,188,800	1,958,400	59,860	51,707	2,430	36,155	3,709	36,270	86	90
01/26/2016	8,250	6,710	6,700	5,500	11,280	9,060	9.70	9.90	2,232,000	2,102,400	57,624	46,868	3,028	35,859			70	75	5,900	5,070	4,680	4,200	7,780	11,840	10.00	9.40	2,232,000	2,102,400	60,892	52,326	2,828	36,155	3,969	36,270	64	79
01/27/2016	7,840	6,690	6,240	5,420	10,010	8,910	7.85	5.36	2,851,200	3,168,000	54,760	46,728	2,678	29,385			97	109	5,450	5,050	4,250	4,180	8,710	12,130	9.20	10.00	2,217,600	2,217,600	56,248	52,120	2,191	30,166	3,624	35,984	92	89
01/28/2016	8,150	6,920	6,530	5,830	9,430	12,040	9.80	9.50	2,793,600	3,096,000	56,926	48,334	3,470	37,535	1,351	16,122	93	104	5,460	5,030	4,350	4,200	7,210	11,570	10.00	9.80	2,217,600	1,944,000	56,351	51,913	3,746	52,531	3,673	36,919	82	85
01/29/2016	7,660	10,590	6,140		10,040	9,010	9.60	9.10	2,908,800	3,052,800	53,503	73,969	5,930	66,692	20,266	66,581	76	61	5,100	4,360	4,370	4,010	6,690	11,350	10.00	9.30	2,188,800	1,814,400	52,636	44,998					75	92
01/30/2016	7,500	7,020	6,080	5,700	9,270	9,500	9.68	8.33	2,851,200	3,110,400	52,386	49,033	3,494	43,635	3,297	42,784	100	108	5,420	5,150	4,340	4,300	8,160	11,280	10.00	9.69	2,174,400	1,900,800	55,938	53,152	514	14,196	609	14,184	96	97
01/31/2016	7,320	7,100	6,040	5,870	9,530	9,570	9.28	7.93	2,750,400	3,139,200	51,128	49,592	2,669	34,529	2,712	34,224	103	111	5,250	5,020	4,290	4,300	7,620	11,800	9.96	9.33	2,232,000	1,800,000	54,184	51,810					105	112
MMAVG																																				
Min.	4,430	90	3,890	460	9,270	240	6	5	2,232,000	2,102,400	30,942	629	1,151	16,153	68	5,185	70	61	5,100	3,010	4,250	2,590	6,690	11,280	9	8	2,102,400	1,713,600	52,636	31,065	466	5,867	585	5,725	53	68
Max.	9,320	10,590	7,510	6,540	13,210	12,960	10	10	3,196,800	3,888,000	65,098	73,969	7,519	72,249	20,266	72,601	109	667	7,030	5,850	5,760	4,600	12,880	13,530	10	10	2,289,600	2,217,600	72,555	60,376	8,844	93,877	9,860	86,382	105	152
Total									83,851,200	94,003,200	1,588,331	1,182,729	73,926	800,788	56,629	596,829											67,953,600	58,795,200	1,963,520	1,459,867	58,812	700,075	76,504	724,403		
Average	7,335	5,462	6,008	4,445	11,149	7,564	9	10	2,704,877	3,133,440	51,236	38,153	3,696	40,039	3,775	39,789	89	109	6,137	4,563	4,913	3,851	9,710	12,519	10	10	2,192,052	1,896,619	63,339	47,092	3,267	38,893	4,250	40,245	87	90

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
02/01/2016	6.30	10.07	3.18	0.00	0.398	0.000	17,566		38.0	11.5	7.65	243	510	12,768	26,796		7.53	6.0	185	159	176	9,720	9,247		
02/02/2016	6.00	10.17	3.61	0.00	0.405	0.000	28,173		26.0	11.4	7.66	324	674	16,213	33,727		7.58	6.0	198	175	188	9,908	9,408		
02/03/2016	8.36	17.93	4.35	0.70	0.398	0.000	12,125		32.0	11.6	7.53	357	634	24,891	44,204		7.55	5.0	174	149	177	12,132	12,341		
02/04/2016	8.00	11.75	4.75	0.10	0.381	0.000	21,929		52.0	11.6	7.64	330	476	22,018	31,759		7.61	2.5	133	106	159	8,874	10,608		
02/05/2016	7.37	11.60	4.65		0.406	0.000			31.0	11.8	7.75	125	388	7,683	23,849		7.73	3.0	115		125	7,069	7,683		
02/06/2016	7.06	11.76	4.45	0.00	0.381	0.000	9,442		35.0	11.5	7.64	137	252	8,067	14,838		7.50	3.0	124		137	7,301	8,067		
02/07/2016	7.28	11.54	4.76	0.00	0.376	0.000	11,500		38.0	10.4	7.53	294	266	17,850	16,150		7.46	8.0	200	178	189	12,143	11,475		
02/08/2016	6.66	10.33	5.03	0.30	0.383	0.000	5,385		20.0	10.6	7.62	324	306	17,996	16,997		7.44	6.5	173	151	204	9,609	11,331		
02/09/2016	6.57	12.04	4.80	0.10	0.376	0.000	17,937		18.0	10.7	7.58	366	430	20,055	23,561		7.55	2.8	115	96	158	6,301	8,657		
02/10/2016	6.65	10.76	4.45	0.10	0.391	0.000	17,651		19.0	11.1	7.49	336	488	18,635	27,065		7.43	1.8	114	94	170	6,323	9,428		
02/11/2016	6.54	11.07	4.13	0.00	0.386	0.000	20,304		22.0	11.1	7.62	339	584	18,490	31,853		7.65	1.6	98	77	155	5,345	8,454		
02/12/2016	6.23	10.71	4.04	0.00	0.412	0.000	2,967		5.0	10.6	7.60						7.64	2.2	313	237	141	16,263	7,326		
02/13/2016	5.97	10.63	4.06	0.00	0.444	0.000			6.0	10.5	7.49	264	396	13,145	19,717		7.68	7.0	156	131	165	7,767	8,215		
02/14/2016	6.81	10.96	3.74	0.00	0.381	0.000			-11.0	10.7	7.53	251	326	14,256	18,515		7.52	15.0	201	152	494	11,416	28,057		
02/15/2016	6.18	11.01	3.71	0.30	0.378	0.000	13,064		14.5	10.2	7.54	258	484	13,298	24,946		7.50	1.5	123	104	167	6,340	8,607		
02/16/2016	10.55	34.32	5.40	0.40	0.263	1.611	5,057		28.0	10.3	7.47	269	750	23,669	65,990		7.52	2.5	141	105	98	12,406	8,623		
02/17/2016	9.29	12.28	5.83	0.00	0.338	0.000	11,302		30.0	9.8	7.70	336	402	26,033	31,146		7.69	0.9	106	87	125	8,213	9,685		
02/18/2016	8.10	11.90	5.43	0.00	0.328	0.000	16,486		22.0	9.8	7.76	282	394	19,050	26,616		7.67	1.0	99	84	132	6,688	8,917		
02/19/2016	7.71	11.06	4.91	0.00	0.343	0.000	12,742		18.0	10.3	6.70	126	406	8,102	26,106		6.66	1.1	127	105	90	8,166	5,787		
02/20/2016	8.01	11.53	5.13	0.00	0.338	0.000	20,991		30.0	10.4	6.70	162	293	10,822	19,573		6.70	1.5	119	96	110	7,950	7,348		
02/21/2016	8.51	12.44	5.54	0.00	0.331	0.000			35.0	10.5	7.57	194	378	13,769	26,828		7.55	1.1	92	78	105	6,530	7,452		
02/22/2016	8.09	12.01	4.96	0.00	0.388	0.000	10,523		32.0	9.5	7.58	288	386	19,432	26,044		7.49	1.0	104	90	120	7,017	8,096		
02/23/2016	7.54	11.80	5.18	0.20	0.339		26,129		22.0	9.5	7.58	306	448	19,242	28,172		7.46	0.9	102	85	123	6,414	7,735		
02/24/2016	12.38	37.08	7.16	1.00	0.266	4.267			32.0	9.9	7.47	282	562	29,116	58,026		7.36	3.0	123	92	90	12,700	9,292		
02/25/2016	22.72	27.82	11.70	0.10	0.166	0.927	18,070		47.0	8.0	7.55	135	260	25,580	49,266		7.44	2.0	80	64	81	15,159	15,348		
02/26/2016	13.93	16.53	9.27	0.00	0.216	0.000	13,753		24.0	9.0	7.30	207	212	24,048	24,629		7.30	2.3	80	70	87	9,294	10,107		
02/27/2016	11.89	15.20	8.39	0.00	0.208	0.000	18,037		31.0	10.2	7.30	191	243	18,940	24,097		7.30	1.8	83	74	93	8,230	9,222		
02/28/2016	11.40	14.64	7.92	0.00	0.211	0.000			43.0	9.7	7.47	99	316	9,413	30,044		7.32	1.2	82	68	87	7,796	8,272		
02/29/2016	10.73	13.44	7.12	0.01	0.245	0.000	25,730		42.0	9.4	7.62	276	426	24,699	38,122		7.52	1.0	88	65	102	7,875	9,128		
MMAVG	7.70																								
Min.	6.0	10.1	3.2	0.0		0.000	2,967		-11.0	8.0	6.70	99	212	7,683	14,838		6.66	0.9	80	64	81	5345	5787		
Max.	22.7	37.1	11.7	1.0		4.267	28,173		52.0	11.8	7.76	366	750	29,116	65,990		7.73	15.0	313	237	494	16263	28057		
Total	252.8	414.4	157.7	3.3		6.805	356,863																		
Average	8.7	14.3	5.4	0.1		0.243	15,516		26.95	10.40	7.50	254	418	17760	29594		7.46	3.2	133	110	146	8998	9790		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
02/01/2016	7.02	<0.10	9.4	5.2	5.4	494	284	26	11.4	8.9	3.4	<0.01	<0.01	<0.01		0.56	29	0.12	6	0.14	97.778	98.157	7.48	84.0	87.0	71.0	7.21	9.2	18.2	13.2					
02/02/2016	6.88	0.10	11.0	7.8	5.0	550	250	55	11.6	8.8	4.3	<0.01	<0.01	<0.01							98.457	98.368	7.58	81.0	92.0	75.0	7.29	7.5	22.4	18.0					
02/03/2016	6.94	0.10	19.2	14.4	11.6	1,339	809	13	11.7	8.7	4.1	<0.01	<0.01	<0.01							96.751	96.972	7.54	79.0	84.0	69.0	7.37	11.4	28.8	23.0					
02/04/2016	6.92	<0.10	10.4	7.8	7.7	694	514	4	11.6	9.2	2.7	<0.01	<0.01	<0.01							97.667	97.815	7.56	80.0	77.0	53.0	7.39	8.0	20.0	13.0	43	< 50	0.69	26	< .20
02/05/2016	6.99	0.10	13.4		7.7	824	473	4	11.7	9.3	2.3	<0.01	<0.01	<0.01							93.840	96.546	7.65	61.0	58.0		7.51	16.8	27.8						
02/06/2016	7.27	0.00	5.6		4.3		253	1	10.3	9.0	1.5	<0.01	<0.01	<0.01							96.861	97.800	7.49	74.0	43.0		7.40	7.2							
02/07/2016	6.95	0.00	12.4	8.2	6.9	753	419	9	10.5	9.6	1.8	<0.01	<0.01	<0.01							97.653	95.338	7.48	76.0	81.0	70.0	7.28	10.4	21.4	16.2					
02/08/2016	6.99	<0.10	9.0	7.0	5.1	500	283	9	10.5	9.3	3.2	<0.01	<0.01	<0.01		0.53	29	0.38	21	0.08	98.426	97.059	7.47	80.0	63.0	50.0	7.24	14.4	27.4	22.6					
02/09/2016	6.81	<0.10	11.2	5.2	5.4	614	296	4	10.4	9.2	2.9	<0.01	<0.01	<0.01							98.525	97.395	7.45	78.0	63.0	44.0	7.14	13.0	23.0	17.6					
02/10/2016	6.94	0.10	8.6	6.0	4.9	477	272	12	10.3	9.1	4.0	<0.01	<0.01	<0.01							98.542	98.238	7.37	78.0	55.0	42.0	7.10	9.0	23.4	20.0					
02/11/2016	6.78	0.10	6.6	3.8	6.6	360	360	12	10.5	8.9	3.3	<0.01	<0.01	<0.01							98.053	98.870	7.45	93.0	60.0	41.0	7.21	12.8	23.6	18.2					
02/12/2016	6.90	0.30	12.4	9.2	4.4	644	229	13	10.3	9.4	3.8	<0.01	<0.01	<0.01									7.48	72.0	20.0	21.2	7.25	15.8	29.0	23.2					
02/13/2016	6.96	<0.10	33.0	1.4	6.3	1,643	314	6	10.0	9.5	3.7	<0.01	<0.01	<0.01							97.614	91.667	7.55	81.0	72.0	56.0	7.53	9.9	70.0	58.8					
02/14/2016	6.92	<0.10	7.2	5.0	5.6	409	318	18	8.3	9.2	1.0	<0.01	<0.01	<0.01							97.769	97.791	7.40	77.0	68.5	53.0	7.36	12.0	27.8	21.0					
02/15/2016	6.91	<0.10	7.6	5.6	5.1	392	263	13	8.7	9.7	1.5	<0.01	<0.01	<0.01		0.44	23	0.21	11	0.09	98.023	98.430	7.40	62.0	66.0	61.0	7.26	11.1	24.4	21.0					
02/16/2016	6.93	0.10	177.0	138.0	75.9	15,574	6,678	45	9.4	9.8	6.1	<0.01	<0.01	<0.01							71.784	76.400	7.49	57.0	70.0	57.0	7.03	114.0	398.0	324.0					
02/17/2016	6.70	<0.10	8.6	6.0	6.2	666	480	8	9.0	9.4	3.9	<0.01	<0.01	<0.01							98.155	97.861	7.60	60.0	45.0	37.0	7.28	7.8	13.2	9.0					
02/18/2016	6.82	0.10	7.6	5.6	5.4	513	365	13	9.3	9.1	4.7	<0.01	<0.01	<0.01							98.085	98.071	7.62	69.0	44.0	45.0	7.41	6.9	12.8	11.2					
02/19/2016	7.13	<0.10	11.4	9.0	4.2	733	270	10	9.0	9.3	3.4	<0.01	<0.01	<0.01							96.667	97.192	7.50	46.0	63.0	52.0	7.30	4.0	13.8	10.8					
02/20/2016	7.20	<0.10	8.8	6.0	6.1	588	408	8	9.2	9.3	3.5	<0.01	<0.01	<0.01							96.235	96.997	6.63	96.0	62.0	55.0	7.40	5.4	12.6	10.4					
02/21/2016	7.25	<0.10	6.6	4.6	3.8	468	270	2	9.0	9.3	3.1	<0.01	<0.01	<0.01							98.041	98.254	7.39	50.4	42.0	35.0	7.27	4.2	9.4	8.4					
02/22/2016	6.94	<0.10	7.0	3.6	3.9	472	263	16	10.3	9.3	2.7	<0.01	<0.01	<0.01		0.30	20	0.13	9	0.09	98.646	98.187	7.44	75.0	53.0	43.0	7.16	4.6	11.4	8.6					
02/23/2016	6.87	<0.10	7.2	5.0	5.1	453	321	3	10.4	9.1	2.8	<0.01	<0.01	<0.01							98.333	98.393	7.34	68.0	52.0	40.0	7.22	7.4	14.6	11.6					
02/24/2016	6.79	<0.10	56.2	38.0	42.9	5,803	4,429	7	10.5	9.2	2.7	<0.01	<0.01	<0.01							84.787	90.000	7.24	87.0	162.0	123.0	7.17	11.7	29.8	23.6					
02/25/2016	6.66	34.00	65.4	48.8	17.4	12,392	3,297	2000	10.0	8.6	201.0	<0.01	<0.01	<0.01							87.111	74.846	7.49	77.0	81.0	58.0	7.03	34.8	128.0	102.6					
02/26/2016	6.81	<0.10	10.6	9.0	9.8	1,231	1,139	39	8.7	7.7	3.9	<0.01	<0.01	<0.01							95.266	95.000	7.20	44.0	41.0	35.0	7.20	20.9	15.6	13.0					
02/27/2016	6.70	<0.10	11.2	9.4	9.0	1,111	892	0	8.9	9.2	2.6	<0.01	<0.01	<0.01							95.288	95.391	7.10	44.0	46.0	40.0	7.00	11.6	13.2	11.4					
02/28/2016	6.60	<0.10	8.6	4.2	5.0	818	475	5	10.0	9.3	2.5	<0.01	<0.01	<0.01							94.949	97.278	7.31	46.0	43.0	37.0	7.15	6.6	10.0	7.2					
02/29/2016	6.70	<0.10	6.8	3.2	5.5	609	492	7	9.8	8.6	2.8	<0.01	<0.01	<0.01		0.33	30	0.23	21	0.05	98.007	98.404	7.43	56.0	42.0	41.0	7.06	7.4	9.4	6.0					
MMAVG													MMAVG			0.43																			
Min.	6.6	0.00	5.6	1	4	360	229	0	8.3	7.7	1			<0.01		0.30	20	0.12	6	0.05	71.78	74.85	6.6	44.0	20.0	21.2	7.0	4.0	5.6	6.0	43.0	< 50	0.69	26.0	< .20
Max.	7.3	34.00	177	138	76	15574	6678	2000	11.7	9.8	201			<0.01		0.56	30	0.38	21	0.14	98.65	98.87	7.7	96.0	162.0	123.0	7.5	114.0	398.0	324.0	43.0	< 50	0.69	26.0	< .20
Total																															43	< 50	0.69	26	< .20
Average	6.9	<1.27	19.7	14	10	1826	866	10	10.0	9.1	10			<0.01		0.43	26	0.21	14	0.09	95.62	95.50	7.4	70.0	63.3	52.0	7.2	14.3	38.5	31.2	43.0	< 50	0.69	26.0	< .20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
02/01/2016	7,680	7,370	6,240	6,060	9,540	10,200	9.25	7.83	2,779,200	3,067,200	53,643	51,478	3,358	41,636	3,412	42,707	96	106	5,730	5,310	4,450	4,270	8,350	12,690	9.82	9.19	2,217,600	1,742,400	59,138	54,803					82	96
02/02/2016	7,810	7,310	6,430	6,010	9,120	9,690	9.54	8.08	2,995,200	3,110,400	54,551	51,059	3,550	43,393	3,453	43,176	101	116	5,710	5,120	4,500	4,290	8,150	12,420	9.85	9.34	2,246,400	1,785,600	58,931	52,842	1,098	16,150	1,673	16,150	79	96
02/03/2016	7,480	7,420	6,220	6,140	9,430	9,950	9.37	8.08	2,750,400	3,153,600	52,246	51,827	3,681	43,064	3,480	43,064	86	104	5,650	5,120	4,560	4,320	8,330	12,470	9.91	9.42	2,246,400	1,800,000	86,694	52,842	1,345	19,788	2,027	19,566	76	86
02/04/2016	6,940	7,340	5,660	6,000	10,900	10,210	9.14	8.17	2,822,400	3,110,400	48,474	51,268	3,753	43,064	3,056	42,936	84	100	5,670	4,550	4,380	3,680	9,380	12,790	9.54	9.06	2,203,200	1,800,000	58,519	46,959	1,274	16,280	1,758	16,480	74	79
02/05/2016	7,120	7,070	5,750	5,760	10,220	9,580	9.38	8.78	2,736,000	3,067,200	49,731	49,382	3,222	42,173	4,557	43,192	105	92	5,340	4,560	4,220	3,790	8,670	12,620	9.93	9.43	2,275,200	1,800,000	55,113	47,063	1,611	19,149	1,726	19,149	79	86
02/06/2016	7,760	7,120	6,220	5,710	10,870	9,410		9.73	2,764,800	3,081,600	54,202	49,731	3,954	43,616	3,404	43,369	103	118	5,550	4,830	4,300	3,930	7,730	12,630	10.00	10.00	2,246,400	1,814,400	57,280	49,849	258	4,009	418	3,973	94	114
02/07/2016	7,080	6,990	5,630	5,530	13,370	10,580		9.35	2,692,800	3,110,400	49,452	48,823	3,956	43,640	3,425	43,640	106	109	5,630	4,720	4,280	3,730	10,340	13,650	10.00	10.00	2,232,000	1,814,400	58,106	48,714	1,278	19,822	2,123	20,153	87	98
02/08/2016	7,360	6,790	6,090	5,560	9,950	9,040		9.29	2,793,600	3,110,400	51,408	47,426	1,653	18,370	1,343	18,285	102	116	5,710	4,260	4,480	3,490	8,250	11,950	10.00	9.83	2,246,400	2,044,800	58,931	43,966	3,719	43,126	4,878	42,853	88	110
02/09/2016	6,890	6,480	5,580	5,370	10,160	9,390	8.47	9.31	2,664,000	3,067,200	48,125	45,261	6,901	68,882	4,994	68,271	109	119	5,520	4,560	4,230	3,720	7,620	12,180	10.00	10.00	2,260,800	1,843,200	56,971	47,063					92	101
02/10/2016	6,830	6,350	5,740	5,420	11,740	10,880	8.42	9.32	2,721,600	3,067,200	47,706	44,353	3,593	43,648	3,152	43,641	114	123	5,760	4,560	4,520	3,840	10,680	11,970	10.00	10.00	2,289,600	1,756,800	59,448	47,063			3,914	36,780	99	105
02/11/2016	7,310	6,660	5,730	5,440	9,910	9,060	8.40	9.20	2,606,400	3,081,600	51,059	46,518	3,514	43,914	3,092	42,568	103	117	5,440	4,420	4,260	3,660	8,540	11,920	10.00	10.00	2,232,000	1,785,600	56,145	45,618			1,474	14,440	92	102
02/12/2016	6,790	6,500	5,640	5,450	9,270	8,790	8.81	10.00	2,707,200	2,707,200	47,426	45,401	3,469	43,738	3,162	43,137	113	123	5,330	4,260	4,400	3,720	8,200	11,450	10.00	10.00	2,131,200	1,828,800	55,010	43,966			3,473	34,897	101	127
02/13/2016	6,890	6,540	5,430	5,320	9,620	8,640	10.00	10.00	2,692,800	3,038,400	48,125	45,680	3,514	43,799	3,121	43,306	84	98	5,890	4,790	4,500	3,880	8,150	12,130	10.00	10.00	2,232,000	1,814,400	60,789	49,436			2,242	22,456	68	84
02/14/2016	6,910	5,720	5,790	4,890	7,760	8,610	10.00	10.00	2,620,800	3,024,000	48,265	39,953	1,168	18,040	1,294	18,020	91	114	5,410	4,310	4,710	3,830	7,650	12,020	10.00	10.00	2,145,600	1,785,600	55,835	44,482					74	104
02/15/2016	6,770	6,310	5,460	5,040	12,620	9,920	10.00	10.00	2,678,400	3,096,000	47,287	44,074	2,219	33,134	2,253	31,768	111	127	5,630	4,800	4,340	3,840	9,850	12,430	10.00	10.00	2,232,000	1,800,000	58,106	49,540			3,611	36,274	107	113
02/16/2016	6,550	6,290	5,240	5,030	11,710	10,760	10.00	10.00	2,664,000	3,081,600	45,750	43,934	3,224	40,588	3,260	39,544	104	122	5,800	4,740	4,520	3,830	10,200	12,290	10.00	10.00	2,232,000	1,828,800	59,860	48,920			3,434	40,974	102	112
02/17/2016	5,230	6,040	4,230	4,820	10,140	8,680	10.00	10.00	2,764,800	3,124,800	36,530	42,188	6,117	71,108	6,778	71,662	99	126	5,770	3,290	4,420	2,600	10,050	11,630	10.00	10.00	2,160,000	1,800,000	59,551	33,955					101	97
02/18/2016	6,570	6,010	5,400	4,240	13,000	10,130	10.00	10.00	2,620,800	3,139,200	45,890	41,978	3,710	44,028	3,003	43,512	107	128	5,860	3,860	5,280	3,230	9,490	10,830	10.00	10.00	2,678,400	2,232,000	60,480	39,838			1,310	14,050	106	114
02/19/2016	6,060	5,590	5,000	4,730	10,050	8,440	10.00	10.00	2,664,000	3,124,800	42,328	39,045					122	140	6,000	3,990	4,830	3,490	9,280	10,270	10.00	10.00	2,678,400	2,174,400	61,925	41,180	3,456	43,576	6,121	65,652	98	125
02/20/2016	7,250	6,060	5,930	4,990	10,600	8,900	9.56	8.66	2,678,400	3,067,200	50,639	42,328	3,894	44,051	3,221	43,391	72	91	6,390	4,790	4,940	3,830	9,540	11,160	10.00	9.66	2,678,400	2,188,800	65,950	49,436					69	84
02/21/2016	6,460	6,160	5,300	5,010	9,800	8,400	9.97	10.00	2,635,200	3,139,200	45,121	43,026	3,713	43,648	3,107	43,063	76	88	6,370	4,500	4,910	3,680	9,480	10,860	10.00	9.78	2,707,200	2,203,200	65,743	46,443					71	87
02/22/2016	6,510	6,030	5,200	4,880	10,530	8,390	10.00	10.00	2,692,800	3,096,000	45,471	42,118	3,683	43,440	3,067	43,805	105	121	6,210	4,400	4,860	3,620	10,020	10,880	10.00	10.00	2,635,200	2,203,200	64,092	45,411			3,185	35,832	98	105
02/23/2016	6,260	5,750	5,050	4,580	9,980	8,460	10.00	0.79	2,779,200	3,081,600	43,725	40,162					120	137	6,340	4,180	4,860	3,410	9,550	10,410	10.00	10.00	2,606,400	2,188,800	65,434	43,141	3,580	43,533	3,743	43,429	107	129
02/24/2016	6,400	5,940	5,200	4,840	9,740	8,530	10.00	0.80	2,750,400	3,110,400	44,702	41,489	3,491	43,356	3,120	44,171	108	126	6,120	3,970	4,860	3,380	9,440	9,970	10.00	10.00	2,664,000	2,275,200	63,163	40,973					95	113
02/25/2016	3,930	5,350	3,200	4,360	9,100	9,570	10.00	0.77	2,721,600	3,052,800	27,450	37,368					51	133	5,880	2,490	4,600	2,070	10,500	10,200	10.00	10.00	2,563,200	2,217,600	60,686	25,699	3,413	43,352	3,553	42,726	102	100
02/26/2016	3,550	5,590	2,820	4,410	9,320	8,760	10.00	0.68	2,620,800	3,081,600	24,796	39,045			2,992	41,879	70	107	5,670	2,230	4,340	1,770	10,380	9,540	10.00	10.00	2,635,200	2,304,000	58,519	23,015	3,833	43,315			79	90
02/27/2016	4,430	5,380	3,720	4,470	9,540	8,350	10.00	7.35	2,721,600	3,096,000	30,942	37,578			3,044	43,657	72	143	5,680	2,810	4,520	2,370	10,220	9,040	10.00	10.00	2,606,400	2,232,000	58,622	29,001	1,132	13,280			100	89
02/28/2016	5,390	5,440	4,450	4,450	9,680	8,750	10.00	7.22	2,707,200	3,124,800	37,648	37,997			3,111	43,626	87	143	5,850	2,630	4,570	2,190	9,990	9,680	10.00	10.00	2,592,000	2,203,200	60,376	27,144	3,465	40,892			116	107
02/29/2016	5,310	5,610	4,350	4,500	10,600	8,040	10.00	6.85	2,764,800	3,081,600	37,089	39,184			3,349	44,246	90	123	6,050	3,130	4,640	2,530	9,900	9,510	10.00	10.00	2,692,800	2,260,800	62,441	32,304	3,436	42,018			84	93
MMAVG																																				
Min.	3,550	5,350	2,820	4,240	7,760	8,040	8	1	2,606,400	2,707,200	24,796	37,368	1,168	18,040	1,294	18,020	51	88	5,330	2,230	4,220	1,770	7,620	9,040	10	9	2,131,200	1,742,400	55,010	23,015	258	4,009	418	3,973	68	79
Max.	7,810	7,420	6,430	6,140	13,370	10,880	10	10	2,995,200	3,153,600	54,551	51,827	6,901	71,108	6,778	71,662	122	143	6,390	5,310	5,280	4,320	10,680	13,650	10	10	2,707,200	2,304,000	65,950	54,803	3,833	43,576	6,121	65,652	116	129
Total									78,811,200	89,294,400	1,309,781	1,279,674	79,337	944,330	85,250	1,113,636											69,566,400	57,528,000	1,733,476	1,250,666	32,898	408,290	50,663	525,834		
Average	6,466	6,318	5,266	5,138	10,285	9,245	10	8	2,717,628	3,079,117	45,165	44,127	3,606	42,924	3,279	42,832	96	118	5,792	4,179	4,561	3,448	9,239	11,434	10	10	2,398,841	1,983,724	59,775	43,126	2,350	29,164	2,815	29,213	90	101

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
03/01/2016	10.50	20.97	0.00	0.50	0.306	0.000	23,155		32.0	9.6	7.74	321	504	28,110	44,135		7.58	1.6	88	65	120	7,706	10,508		
03/02/2016	12.36	20.93	7.74	0.10	0.272	0.359	4,299		41.0	8.1	7.54	234	268	24,121	27,626		7.51	1.8	68	56	93	7,010	9,587		
03/03/2016	9.94	13.21	7.06	0.00	0.279	0.000	3,190		20.0	9.4	7.71	258	328	21,388	27,191		7.60	2.2	86	68	210	7,129	17,409		
03/04/2016	9.48	13.06	6.85	0.00	0.282	0.000	14,609		20.0	9.7	7.39	375	418	29,649	33,048		7.37	4.0	107		131	8,460	10,357		
03/05/2016	9.06	12.48	6.43	0.00	0.286	0.000	2,396		21.0	9.1	7.51	143	262	10,805	19,797		7.38	23.0	107		99	8,085	7,480		
03/06/2016	8.75	12.54	5.95	0.00	0.313	0.000			26.0	9.6	7.52	342	436	24,957	31,817		7.44	0.8	77	55	99	5,619	7,225		
03/07/2016	8.96	13.01	5.80	0.00	0.250	0.000	14,487		32.0	10.3	7.62	276	284	20,624	21,222		7.52	1.0	98	74	128	7,323	9,565		
03/08/2016	8.63	12.96	5.48	0.00	0.278	0.000	27,581		38.0	9.8	7.58	314	552	22,600	39,730		7.47	2.5	103	95	120	7,413	8,637		
03/09/2016	8.79	11.38	5.17	0.00	0.286	0.000	21,337		77.0	11.1	7.68	327	386	23,972	28,297		7.40	2.0	117	103	138	8,577	10,117		
03/10/2016	9.18	16.16	5.12	0.40	0.287	0.000	15,044		64.0	10.2	7.46	312	450	23,887	34,453		7.41	4.1	146	123	153	11,178	11,714		
03/11/2016	9.28	16.16	5.17	0.00	0.275	0.000	4,787		50.0	10.3	7.53	75	298	5,805	23,064		7.37	4.0	121		69	9,365	5,340		
03/12/2016	8.45	11.13	5.49	0.00	0.274	0.000	4,732		50.0	10.5	7.47	96	314	6,765	22,129		7.29	3.0	122	99	81	8,598	5,708		
03/13/2016	8.53	11.50	5.02	0.00	0.271	0.000	6,865		52.0	10.7	7.49	407	296	28,954	21,057		7.40	2.2	96	82	108	6,829	7,683		
03/14/2016	8.64	22.37	6.27	0.60	0.272	0.081	21,056		35.0	10.2	7.46	224	388	16,141	27,958		7.45	2.6	126	106	126	9,079	9,079		
03/15/2016	6.01	19.66	7.99	0.15	0.258	0.000	8,867		38.0	10.3	7.54	192	184	9,624	9,223		7.47	4.5	101	89	137	5,062	6,867		
03/16/2016	11.55	19.67	8.12	0.20	0.257	0.093	31,263		44.0	10.5	7.37	249	324	23,985	31,210		7.35	4.5	134	110	129	12,908	12,426		
03/17/2016	12.18	15.12	7.64	0.00	0.268	0.000	22,411		42.0	10.4	7.53	198	276	20,113	28,036		7.47	3.5	123	101	120	12,494	12,190		
03/18/2016	10.73	13.33	7.09	0.00	0.269	0.000	34,360		40.0	10.4	7.25	179	247	16,018	22,104		7.25	6.0	121	104	114	10,828	10,202		
03/19/2016	9.59	13.25	6.64	0.00	0.272	0.000	1,547		40.0	10.4	7.29	105	187	8,398	14,956		7.30		85	67	99	6,798	7,918		
03/20/2016	9.06	12.93	6.27	0.20	0.267	0.000			34.0	10.3	7.45	171	156	12,921	11,787		7.35	3.0	111	99	102	8,387	7,707		
03/21/2016	9.63	14.23	6.48	0.00	0.278	0.000	1,209		28.0	10.5	7.33	182	248	14,617	19,918		7.30	4.0	118	102	111	9,477	8,915		
03/22/2016	9.15	12.79	5.58	0.00	0.254	0.000	24,681		34.0	10.6	7.65	306	344	23,351	26,251		7.55	4.0	136	115	180	10,378	13,736		
03/23/2016	9.27	12.94	5.80	0.00	0.279	0.000	29,019		44.0	10.9	7.61	240	296	18,555	22,884		7.57	4.5	137	120	135	10,592	10,437		
03/24/2016	8.70	12.06	6.16	0.10	0.255	0.000	37,110		33.0	10.7	7.64	246	354	17,849	25,686		7.63	3.0	117	96	117	8,489	8,489		
03/25/2016	9.44	17.68	6.11	0.18	0.278	0.000	48,391		34.0	11.5	7.65	147	393	11,573	30,941		7.64	4.0	107	92	99	8,424	7,794		
03/26/2016	8.35	12.06	5.60	0.00	0.243	0.000	4,531		32.0	11.2	7.64	78	313	5,432	21,797		7.65	4.0	113	93	69	7,869	4,805		
03/27/2016	8.10	12.52	5.92	0.00	0.288	0.000			30.0	11.0	7.61	188	250	12,700	16,889		7.55	3.5	113	95	126	7,634	8,512		
03/28/2016	11.24	19.39	6.74	0.70	0.147	0.016	11,493		37.0	11.2	7.65	188	292	17,623	27,373		7.65	4.5	129	106	1230	12,093	115,302		
03/29/2016	10.18	11.08	6.47	0.00	0.601	0.000	13,965		38.0	11.2	7.69	239	294	20,291	24,961		7.70	11.0	210	178	192	17,829	16,301		
03/30/2016	9.15	12.53	5.52	0.00	0.244	0.000	26,800		42.0	10.8	7.58	258	338	19,688	25,793		7.66	4.5	133	109	138	10,149	10,531		
03/31/2016	9.41	10.81	5.44	0.10	0.259	0.000	36,085		50.0	11.4	7.61	258	400	20,248	31,392		7.49	9.0	220	191	188	17,265	14,754		
MMAVG	7.63																								
Min.	6.0	10.8	0.0	0.0		0.000	1,209		20.0	8.1	7.25	75	156	5,432	9,223		7.25	0.8	68	55	69	5062	4805		
Max.	12.4	22.4	8.1	0.7		0.359	48,391		77.0	11.5	7.74	407	552	29,649	44,135		7.70	23.0	220	191	1230	17829	115302		
Total	292.3	449.9	187.1	3.2		0.549	495,270																		
Average	9.4	14.5	6.0	0.1		0.018	17,688		38.65	10.38	7.54	230	325	18089	25572		7.48	4.4	118	100	160	9324	13139		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
03/01/2016	6.71	0.30	10.8	6.0	5.0	946	438	21	9.6	8.4	5.1	<0.01	<0.01	<0.01							98.442	97.857	7.44	99.0	109.0	87.0	7.25	7.3	11.8	8.2					
03/02/2016	6.74	2.80	35.0	25.4	18.2	3,608	1,876	470	9.6	8.5	19.1	<0.01	<0.01	<0.01							92.222	86.940	7.35	68.0	78.0	55.0	7.13	29.1	94.0	74.6	39.00	170.00	1.50	23.00	<0.20
03/03/2016	6.75	<0.10	7.4	4.4	5.9	613	489	18	9.8	8.8	3.4	<0.01	<0.01	<0.01							97.713	97.744	7.51	70.0	38.0	28.0	7.32	10.2	13.8	10.2					
03/04/2016	6.75	0.10	9.8		5.7	775	451	8	9.3	8.0	3.0	<0.01	<0.01	<0.01							98.480	97.656	7.19	78.0	89.0		7.20	10.2	18.8						
03/05/2016	6.53	0.10	8.4		4.3	635	325	3	9.4	9.9	3.6	<0.01	<0.01	<0.01							96.993	96.794	7.23	42.0	45.0		7.20	11.4	19.0						
03/06/2016	6.77	0.10	8.8	5.2	4.5	642	328	8	9.7	9.8	3.4	<0.01	<0.01	<0.01							98.684	97.982	7.35	42.0	44.0	30.0	7.23	15.3	28.2	20.4					
03/07/2016	6.83	<0.10	6.6	3.2	4.7	493	351	9	10.0	9.4	2.4	<0.01	<0.01	<0.01		0.29	22	0.13	10	0.04	98.297	97.676	7.33	58.0	44.0	29.0	7.18	13.8	21.0	15.0					
03/08/2016	6.76	<0.10	7.0	5.0	5.1	504	367	10	10.4	9.4	2.5	<0.01	<0.01	<0.01							98.376	98.732	7.25	53.0	42.0	39.0	7.23	11.1	15.2	12.6					
03/09/2016	6.73	<0.10	7.2	5.0	5.1	528	374	3	11.7	8.6	2.5	<0.01	<0.01	<0.01							98.440	98.135	7.27	60.0	70.0	52.0	7.32	8.9	16.2	10.8					
03/10/2016	6.75	<0.10	7.0	4.8	5.2	536	398	5	11.7	8.4	2.1	<0.01	<0.01	<0.01							98.333	98.444	7.42	105.0	126.0	112.0	6.98	5.4	13.8	9.0					
03/11/2016	6.79	<0.10	3.4		3.4	263	263	146	11.6	8.5	2.9	<0.01	<0.01	<0.01							95.467	98.859	7.28	44.0	61.0		6.91	4.6	22.4						
03/12/2016	6.65	0.00	5.8	4.6	4.1	409	289	6	11.0	8.2	1.5	<0.01	<0.01	<0.01							95.729	98.153	7.25	50.0	59.0	47.0	6.98	4.7	12.6	9.4					
03/13/2016	6.82	0.00	4.4	2.0	4.2	313	299	1	11.2	8.5	2.3	<0.01	<0.01	<0.01							98.968	98.514	7.44	57.0	37.0	25.0	7.05	4.8	10.4	6.2					
03/14/2016	6.81	<0.10	8.0	5.0	4.8	576	346	3	11.4	9.0	2.0	<0.01	<0.01	<0.01		0.18	13	0.11	8	0.05	97.857	97.938	7.35	93.0	125.0	100.0	6.84	21.6	49.8	38.8					
03/15/2016	6.68	9.50	65.6	52.4	27.6	3,288	1,383	800	11.0	8.8	47.3	<0.01	<0.01	<0.01							85.625	64.348	7.36	78.0	95.0	82.0	6.83	23.4	51.4	42.6					
03/16/2016	6.72	0.00	5.8	4.2	4.4	559	424	0	10.2	9.0	2.3	<0.01	<0.01	<0.01							98.233	98.210	7.33	79.0	62.0	48.0	6.84	6.1	10.2	7.2					
03/17/2016	6.65	0.10	13.0	7.0	5.6	1,321	569	7	11.1	7.7	2.6	<0.01	<0.01	<0.01							97.172	95.290	7.50	70.0	67.0	61.0	7.12	5.8	12.2	8.6		<50.00			
03/18/2016	6.96	0.10	7.5	5.5	5.1	671	456	16	11.1	8.0	2.8	<0.01	<0.01	<0.01							97.151	96.964	7.28	53.0	50.2	41.4	7.02	5.7	10.0	7.6					
03/19/2016	6.86	<0.10	7.8	5.8	2.0	624	160	6	10.8	4.6	1.7	<0.01	<0.01	<0.01							98.095	95.829	7.25	39.0	41.2	34.0	7.05	3.0	11.6	9.4					
03/20/2016	6.88	<0.10	8.4	4.4	3.0	635	227	4	10.5	9.5	1.6	<0.01	<0.01	<0.01							98.246	94.615	7.39	51.0	57.0	47.0	7.14	3.3	11.0	7.6					
03/21/2016	6.84	<0.10	7.6	4.2	2.1	610	169	8	10.7	8.8	3.6	<0.01	<0.01	<0.01		0.20	16	0.30	24	0.05	98.846	96.935	7.33	71.0	89.0	70.0	7.04	2.9	10.2	7.2					
03/22/2016	6.75	<0.10	6.6	5.0	3.2	504	244	11	10.7	8.7	4.3	<0.01	<0.01	<0.01							98.954	98.081	7.59	84.0	53.0	44.0	7.19	3.9	11.2	9.2					
03/23/2016	6.97	<0.10	7.8	5.2	3.3	603	255	2	11.2	8.8	2.2	<0.01	<0.01	<0.01							98.625	97.365	7.60	57.0	58.0	54.0	7.17	3.3	10.8	7.8					
03/24/2016	6.90	<0.10	8.8	5.4	3.6	639	261	5	11.3	8.7	2.5	<0.01	<0.01	<0.01							98.537	97.514	7.62	73.0	57.0	47.0	7.12	3.6	13.8	9.6					
03/25/2016	6.93	<0.10	7.4	6.0	2.1	583	165	6	11.3	8.9	2.6	<0.01	<0.01	<0.01							98.571	98.117	7.63	68.0	69.8	57.6	7.10	3.4	11.8	9.4					
03/26/2016	6.90	<0.10	2.6	6.2	3.6	181	251	3	9.8	8.9	2.8	<0.01	<0.01	<0.01							95.385	99.200	7.65	57.0	48.2	39.8	7.10	4.8	19.8	8.6					
03/27/2016	6.91	<0.10	8.6	5.8	3.3	581	223	7	11.1	8.9	2.3	<0.01	<0.01	<0.01							98.245	96.560	7.61	61.0	56.0	48.0	7.22	3.4	9.2	5.8					
03/28/2016	7.06	<0.10	80.0	60.0	30.9	7,499	2,897	7	11.6	9.0	2.6	<0.01	<0.01	<0.01		1.41	132	0.33	31	0.05	83.564	72.603	7.64	108.0	177.0	140.0	7.04	55.2	140.0	107.0					
03/29/2016	6.98	<0.10	7.0	3.8	4.9	594	416	5	11.0	8.8	3.8	<0.01	<0.01	<0.01							97.950	97.619	7.69	93.0	104.0	91.0	7.28	4.8	9.4	5.4					
03/30/2016	7.22	<0.10	8.6	5.8	4.1	656	313	15	11.4	8.6	2.8	<0.01	<0.01	<0.01							98.411	97.456	7.64	78.0	65.0	57.0	7.33	4.2	9.8	6.2					
03/31/2016	7.02	<0.10	9.6	6.0	5.7	753	447	21	11.7	8.5	2.4	<0.01	<0.01	<0.01							97.791	97.600	7.62	85.0	105.0	86.0	7.38	5.0	10.6	6.2					
MMAVG														MMAVG		0.43																			
Min.	6.5	0.00	3	2	2	181	160	0	9.3	4.6	2			<0.01		0.18	13	0.11	8	0.04	83.56	64.35	7.2	39.0	37.0	25.0	6.8	2.9	9.2	5.4	39.0	<50	1.50	23.0	<0.20
Max.	7.2	9.50	80	60	31	7499	2897	800	11.7	9.9	47			<0.01		1.41	132	0.33	31	0.05	98.97	99.20	7.7	108.0	177.0	140.0	7.4	55.2	140.0	107.0	39.0	170	1.50	23.0	<0.20
Total																																			
Average	6.8	<0.49	13	9	6	1005	499	9	10.7	8.6	5			<0.01		0.52	46	0.22	18	0.05	96.88	95.00	7.4	68.5	71.7	59.0	7.1	9.7	22.9	17.2	39.0	<110	1.50	23.0	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
03/01/2016	5,550	5,150	4,600	4,160	10,870	8,040	10.00	6.97	2,707,200	3,096,000	38,765	35,971	3,414	37,654	2,550	38,028	110	153	5,850	3,350	4,620	2,790	9,550	9,610	10.00	10.00	2,635,200	2,275,200	60,376	34,575	2,660	33,791			109	99
03/02/2016	3,640	5,070	3,060	4,180	9,960	8,110	9.37	6.72	2,750,400	3,124,800	25,424	35,413			2,760	43,200	88	138	5,720	2,760	4,420	2,270	9,800	8,860	10.00	10.00	2,692,800	2,304,000	59,035	28,485	3,973	48,562	3,771	48,562	105	87
03/03/2016	5,440	5,630	4,410	4,470	10,380	8,400	10.00	7.47	2,664,000	3,168,000	37,997	39,324			3,516	53,917	94	123	5,390	3,100	4,290	2,640	9,950	10,170	10.00	10.00	2,692,800	2,232,000	86,694	31,994	4,367	54,015			98	97
03/04/2016	5,160	5,150	4,370	4,290	10,340	7,960	10.00	7.27	2,822,400	3,067,200	36,041	35,971	1,899	23,380			114	148	5,380	3,130	4,270	2,720	9,440	10,360	10.00	9.61	2,808,000	2,145,600	55,526	32,304	6,010	75,691	7,374	87,407	106	105
03/05/2016	5,310	5,490	4,240	4,280	9,780	8,090	10.00	10.00	2,779,200	3,081,600	37,089	38,346	3,969	48,860			119	135	5,320	3,620	4,090	2,960	9,640	9,990	10.00	10.00	2,707,200	2,203,200	54,906	37,361	3,477	43,339	3,602	43,490	96	94
03/06/2016	5,530	5,270	4,730	4,480	10,670	8,370	10.00	10.00	2,678,400	3,139,200	38,626	36,810					118	139	5,230	3,570	4,240	3,100	8,640	9,830	10.00	10.00	2,721,600	2,203,200	53,978	36,845	3,305	43,351	3,570	43,197	96	106
03/07/2016	6,290	6,110	5,100	4,950	10,780	8,840	8.50	10.00	2,851,200	3,110,400	43,934	42,677	5,181	63,716	4,460	64,230	83	98	5,510	3,710	4,910	2,440	9,000	10,000	9.70	10.00	2,851,200	2,419,200	56,867	38,290					73	81
03/08/2016	6,190	6,280	5,050	5,060	10,350	8,390	10.00	10.00	2,779,200	3,096,000	43,236	43,864					113	119	5,650	3,790	4,460	3,210	8,890	9,940	10.00	10.00	2,635,200	2,304,000	58,312	39,116	5,495	72,087	5,927	71,466	85	106
03/09/2016	6,440	6,440	5,240	5,260	10,810	8,720	10.00	10.00	2,952,000	3,081,600	44,982	44,982					113	121	5,920	4,110	4,290	3,420	8,080	9,860	10.00	9.70	2,534,400	2,131,200	61,099	42,418	5,178	72,107	6,026	71,968	74	97
03/10/2016	6,330	6,310	5,240	5,160	10,620	8,540	10.00	10.00	2,808,000	3,168,000	44,213	44,074	6,160	72,268	6,097	72,170	119	119	4,910	3,790	3,960	3,230	8,110	3,770	9.00	9.30	2,721,600	2,260,800	50,675	39,116					82	106
03/11/2016	5,660	6,040	4,570	4,880	9,980	8,100	10.00	10.00	2,577,600	3,067,200	39,534	42,188	5,717	71,707	5,871	72,309	80	84	5,300	3,970	4,230	3,290	8,430	10,310	9.00	9.60	2,678,400	2,318,400	54,700	40,973					62	76
03/12/2016	6,990	6,210	5,660	5,190	10,950	8,710	10.00	10.00	2,649,600	3,081,600	48,823	43,375					99	124	5,310	4,500	4,220	3,650	8,340	10,090	9.72	10.00	2,822,400	2,217,600	54,803	46,443	2,979	43,272	3,458	43,332	90	100
03/13/2016	6,350	5,830	5,190	4,760	10,440	7,940	10.00	10.00	2,871,360	1,785,600	44,353	40,721					110	129	4,960	4,010	3,910	3,280	7,890	9,670	9.26	9.95	2,692,800	2,332,800	51,191	41,386	3,005	43,200	3,635	43,200	91	107
03/14/2016	6,960	6,160	5,620	4,960	8,140	10,510	10.00	10.00	2,865,600	3,067,200	48,614	43,026	5,956	71,706	4,568	71,551	93	119	5,100	4,150	4,020	3,450	7,810	9,310	10.00	9.60	2,721,600	2,390,400	52,636	42,831	2,854	43,368	3,495	43,341	80	99
03/15/2016	3,630	5,160			9,540	7,760	10.00	10.00	2,865,600	3,096,000	25,355	36,041	5,853	74,033	4,449	72,376	94	93	4,470	2,510			8,600	8,930	10.00	9.79	2,728,800	2,332,800	46,134	25,905					154	104
03/16/2016	4,880	5,970	4,100	4,920	9,980	8,020	9.81	10.00	2,851,200	3,081,600	34,086	41,699	5,629	71,118	3,487	72,724	76	99	4,790	3,720	3,870	3,140	10,290	10,320	10.00	9.30	2,750,400	2,217,600	49,436	38,393					69	83
03/17/2016	4,870	5,600	4,100	4,600	9,940	8,050	10.00	10.00	2,865,600	3,168,000	34,016	39,115					86	125	4,640	3,630	3,680	3,030	9,950	10,650	10.00	9.24	2,678,400	2,131,200	47,888	37,464	5,650	68,776	5,597	68,207	82	91
03/18/2016	5,530	5,730	4,580	4,630	9,780	8,210	10.00	10.00	2,952,000	3,096,000	38,626	40,023					92	133	4,770	3,930	3,760	3,290	9,550	10,520	10.00	8.90	2,736,000	2,188,800	49,230	40,561	5,726	71,738	5,975	71,327	94	102
03/19/2016	5,480	5,160	4,700	4,240	9,840	7,590	9.60	10.00	2,779,200	3,110,400	38,276	36,041					119	138	4,540	3,590	3,630	3,070	9,240	9,380	10.00	10.00	2,707,200	2,203,200	46,856	37,051	5,779	71,993	5,761	72,824	86	125
03/20/2016	5,990	4,820	4,930	4,270	10,510	7,360	9.32	10.00	2,721,600	3,124,800	41,839	33,666					107	139	4,360	9,080	3,330	6,810	3,740	9,480	100.00	10.00	2,678,400	2,275,200	44,998	93,712	3,904	72,118	4,766	72,056	85	45
03/21/2016	6,160	5,480	4,990	4,370	10,270	8,100	9.01	10.00	2,736,000	3,139,200	43,026	38,276	4,845	56,869	3,723	57,981	123	144	4,390	4,050	3,480	3,290	8,800	9,390	10.00	10.00	2,664,000	2,376,000	45,308	41,799					89	104
03/22/2016	6,090	5,510	4,960	4,480	10,380	8,010	9.41	10.00	2,822,400	3,124,800	42,537	38,486	4,162	49,482	3,332	49,946	118	133	4,520	4,130	3,620	3,420	9,090	9,450	10.00	10.00	2,649,600	2,376,000	46,650	42,625					89	115
03/23/2016	6,100	5,430	5,000	4,330	9,380	8,020	8.87	10.00	2,779,200	3,096,000	42,607	37,927					115	142	4,650	4,210	3,790	3,510	9,010	9,590	10.00	10.00	2,793,600	2,246,400	47,991	43,450	5,797	71,991	6,021	70,888	93	112
03/24/2016	6,620	5,580	5,320	4,440	10,790	8,150	8.86	9.76	2,707,200	3,067,200	46,239	38,975	4,426	51,872	3,657	50,572	103	122	4,570	4,360	3,660	3,460	8,770	9,240	10.00	10.00	2,865,600	2,419,200	47,166	44,998					77	99
03/25/2016	6,190	5,460	5,000	4,380	10,670	8,150	8.84	9.71	2,721,600	3,038,400	43,236	38,137	6,173	72,000	5,536	72,000	121	141	4,540	4,300	3,620	3,480	9,040	9,650	9.98	10.00	2,793,600	2,404,800	46,856	44,379					88	112
03/26/2016	6,490	5,670	5,310	4,600	10,520	8,100	9.05	9.22	2,908,800	3,110,400	45,331	39,604					83	101	4,720	4,530	3,740	3,700	9,090	9,760	10.00	9.04	2,750,400	2,073,600	48,714	46,753	3,555	43,275	3,719	43,255	74	91
03/27/2016	6,820	5,770	5,640	4,740	9,780	8,210	8.64	8.91	2,923,200	3,096,000	47,636	40,302					95	111	4,460	4,180	3,570	3,520	8,940	9,490	10.00	9.12	2,620,800	2,347,200	46,031	43,141	3,273	43,173	3,527	43,332	79	101
03/28/2016	7,680	3,730	6,330	3,120	9,980	7,720	8.30	9.20	2,923,200	3,096,000	53,643	26,053	5,971	72,467	4,808	72,383	94	89	4,840	4,310	3,970	3,630	9,060	9,320	9.90	8.60	2,793,600	2,246,400	49,952	44,482					74	97
03/29/2016	5,420	5,740	4,560	4,680	9,650	8,080	8.60	8.30	2,808,000	3,096,000	37,857	40,092					74	59	4,930	4,090	3,970	3,390	10,030	10,180	9.90	8.60	2,664,000	2,102,400	50,881	42,212	5,896	71,664	5,740	72,062	69	117
03/30/2016	6,040	6,170	4,980	5,030	8,660	10,710	9.00	9.10	2,865,600	3,038,400	42,188	43,096					94	114	5,190	4,460	4,170	3,530	9,610	10,480	10.00	8.90	2,664,000	2,174,400	53,565	46,031	6,728	79,246	6,591	79,033	77	94
03/31/2016	6,800	5,980	5,570	4,970	10,900	9,140	8.60	8.90	2,779,200	3,081,600	47,496	41,769					85	112	5,050	4,270	4,130	3,630	9,560	10,340	9.80	8.40	2,750,400	2,232,000	52,120	44,070	5,805	71,998	6,141	72,129	69	89
MMAVG																																				
Min.	3,630	3,730	3,060	3,120	8,140	7,360	8	7	2,577,600	1,785,600	25,355	26,053	1,899	23,380	2,550	38,028	74	59	4,360	2,510	3,330	2,270	3,740	3,770	9	8	2,534,400	2,073,600	44,998	25,905	2,660	33,791	3,458	43,197	62	45
Max.	7,680	6,440	6,330	5,260	10,950	10,710	10	10	2,952,000	3,168,000	53,643	44,982	6,173	74,033	6,097	72,724	123	153	5,920	9,080	4,910	6,810	10,290	10,650	100	10	2,865,600	2,419,200	61,099	93,712	6,728	79,246	7,374	87,407	154	125
Total									86,765,760	94,795,200	1,275,625	1,216,044	69,355	837,132	58,814	863,387											84,204,000	70,084,800	1,599,509	1,289,163	95,416	1,238,755	94,696	1,161,076		
Average	5,891	5,616	4,905	4,596	10,150	8,326	9	9	2,798,895	3,057,910	41,149	39,227	4,954	59,795	4,201	61,671	101	121	4,999	4,029	3,997	3,345	8,901	9,611	13	10	2,716,258	2,260,800	51,597	41,586	4,544	58,988	4,984	61,109	87	98

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
04/01/2016	8.97	12.28	5.36	0.00	0.333	0.000	29,753		59.0	11.1	7.67	300	265	22,443	19,825		7.35	19.0		-6111	276		20,648		
04/02/2016	8.98	12.70	5.96	0.25	0.354	0.000	13,748		50.0	12.9	7.74	275	215	20,596	16,102		7.57	10.0		-6102	237		17,750		
04/03/2016	8.36	11.69	5.17	0.10	0.371	0.000			32.0	12.7	7.62	228	232	15,897	16,176		7.67	5.5	124	110	170	8,646	11,853		
04/04/2016	7.60	12.54	5.10	0.04	0.344	0.000	570		22.0	11.3	7.59	246	246	15,592	15,592		7.66	4.5	134	118	177	8,493	11,219		
04/05/2016	8.05	12.21	5.20	0.00	0.332	0.000	22,192		21.0	11.5	7.52	324	332	21,752	22,289		7.63	2.5	112	98	179	7,519	12,018		
04/06/2016	8.17	12.42	3.14	0.00	0.435	0.000	21,497		23.0	11.3	7.57	362	292	24,666	19,896		7.65	1.5	89	77	132	6,064	8,994		
04/07/2016	11.84	20.87	7.33	0.80	0.383	0.000	20,131		54.0	12.1	7.58	228	354	22,514	34,956		7.64	0.6	92	73	111	9,085	10,961		
04/08/2016	10.62	13.37	6.91	0.00	0.392	0.000	10,538		38.0	11.2	7.59	173	286	15,323	25,331		7.56	1.5			87		7,706		
04/09/2016	9.63	13.28	6.70	0.00	0.373	0.000	7,979		34.0	11.4	7.52	147	192	11,806	15,420		7.44	1.3	88		84	7,068	6,746		
04/10/2016	9.04	13.31	6.01	0.10	0.399	0.000			29.0	11.2	7.63	168	206	12,666	15,531		7.65	0.5	78	65	96	5,881	7,238		
04/11/2016	9.18	13.48	5.85	0.10	0.501	0.000	45,778		39.0	11.2	7.61	252	326	19,293	24,959		7.57	1.4	116	88	135	8,881	10,336		
04/12/2016	9.99	16.31	5.96	0.10	0.497	0.000	19,743		54.0	11.3	7.51	234	338	19,496	28,161		7.39	8.0	195	174	191	16,247	15,913		
04/13/2016	8.66	12.34	5.52	0.00	0.379	0.000	21,358		43.0	11.2	7.64	428	308	30,912	22,245		7.51	4.5	128	122	194	9,245	14,012		
04/14/2016	8.46	12.18	5.49	0.00	0.341	0.000	53,447		50.0	11.5	7.73	276	372	19,474	26,247		7.63	3.0	138	118	150	9,737	10,583		
04/15/2016	8.50	11.91	4.98	0.00	0.446	0.000	29,727		38.0	11.9	7.62	93	320	6,593	22,685		7.56	2.0	116		99	8,223	7,018		
04/16/2016	7.88	11.28	4.97	0.00	0.533	0.000	22,333		49.0	12.0	7.61	114	194	7,492	12,750		7.51	2.5	116		111	7,623	7,295		
04/17/2016	7.75	11.28	4.67	0.00	0.331	0.000	4,506		42.0	12.1	7.59	96	224	6,205	14,478		7.54	1.5	106	89	90	6,851	5,817		
04/18/2016	7.82	10.51	4.94	0.00	0.419	0.000	40,558		52.0	12.3	7.58	264	416	17,218	27,131		7.50	1.8	128	114	162	8,348	10,565		
04/19/2016	7.82	11.95	4.85	0.00	0.449	0.000	41,426		43.0	12.3	7.59	393	412	25,631	26,870		7.67	1.5	104	93	197	6,783	12,848		
04/20/2016	7.51	10.33	4.51	0.00	0.523	0.000	45,152		45.0	12.9	7.60	345	286	21,609	17,913		7.52	3.0	121	95	152	7,579	9,520		
04/21/2016	7.41	10.99	4.12	0.00	0.451	0.000	40,144		70.0	12.7	7.62	300	452	18,540	27,933		7.52	5.0	179	149	189	11,062	11,680		
04/22/2016	7.80	12.70	4.45	0.10	0.452	0.000	40,418		56.0	12.9	7.62	108	134	7,026	8,717		7.40	10.0	126	102	126	8,197	8,197		
04/23/2016	7.18	11.71	4.26	0.00	0.439	0.000	16,914		58.0	13.2	7.68	122	130	7,306	7,785		7.49	10.0	125	102	138	7,485	8,264		
04/24/2016	6.93	11.71	4.12	0.00	0.448	0.000	3,225		54.0	12.8	7.68	209	268	12,079	15,489		7.57	4.2	149	138	168	8,612	9,710		
04/25/2016	7.03	10.38	3.86	0.00	0.442	0.000	46,879		42.0	12.6	7.57	335	448	19,641	26,266		7.50	5.5	171	148	212	10,026	12,430		
04/26/2016	7.80	18.20	3.86	0.30	0.438	0.051	21,838		40.0	12.7	7.64	336	564	21,857	36,689		7.52	8.5	213	185	207	13,856	13,466		
04/27/2016	7.02	10.71	3.97	0.00	0.484	0.000	37,017		45.0	13.4	7.71	390	406	22,833	23,770		7.46	6.0	168	150	239	9,836	13,993		
04/28/2016	6.92	11.28	4.00	0.00	0.496	0.000	57,903		56.0	13.7	7.71	375	542	21,642	31,280		7.52	8.0	233	191	227	13,447	13,101		
04/29/2016	6.68	10.76	3.65	0.00	0.524	0.000	35,784		41.0	12.7	7.65	474	540	26,407	30,084		7.23	36.0	422	362	338	23,510	18,830		
04/30/2016	6.67	9.91	3.62	0.00	0.487	0.000	20,469		55.0	13.1	6.60	204	635	11,348	35,324		7.30	15.0	249	220	204	13,851	11,348		
MMAVG	7.20																								
Min.	6.7	9.9	3.1	0.0		0.000	570		21.0	11.1	6.60	93	130	6,205	7,785		7.23	0.5	78	-6111	84	5881	5817		
Max.	11.8	20.9	7.3	0.8		0.051	57,903		70.0	13.7	7.74	474	635	30,912	36,689		7.67	36.0	422	362	338	23510	20648		
Total	246.3	374.6	148.5	1.9		0.051	771,027																		
Average	8.2	12.5	5.0	0.1		0.002	27,537		44.47	12.17	7.59	260	331	17529	22263		7.52	6.1	149	-347	169	9709	11335		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
04/01/2016	6.97	<0.10	13.4	8.2	5.1	1,002	382	14	12.7	8.3	3.1	<0.01	<0.01	<0.01							98.300	94.943	7.38	111.0	152.0	122.0	7.21	4.8	9.2	6.0					
04/02/2016	7.06	0.20	7.3	5.6	4.9	547	367	1	12.8	8.6	2.3	<0.01	<0.01	<0.01							98.218	96.605	7.55	105.0	89.0	65.0	7.23	4.4	8.5	6.5					
04/03/2016	6.98	<0.10	7.2	5.4	4.7	502	328	12	12.1	9.4	1.6	<0.01	<0.01	<0.01		0.16	11	0.40	28		97.939	96.897	7.71	81.0	56.0	48.0	7.37	4.2	7.4	6.2					
04/04/2016	6.97	<0.10	7.0	6.0	5.6	444	355	4	11.5	9.0	3.9	<0.01	<0.01	<0.01		0.15	10	0.22	14		97.724	97.154	7.64	96.0	59.0	48.0	7.28	4.7	8.6	6.6					
04/05/2016	7.10	<0.10	8.6	4.4	5.6	577	376	4	11.0	8.9	3.3	<0.01	<0.01	<0.01		0.17	11				98.272	97.410	7.61	105.0	65.0	54.0	7.26	5.6	9.8	6.2					
04/06/2016	7.01	<0.10	9.2	6.8	6.2	627	422	7	11.3	8.8	2.9	<0.01	<0.01	<0.01							98.287	96.849	7.57	66.0	55.0	44.0	7.14	6.9	10.2	8.4					
04/07/2016	6.94	<0.10	96.0	69.0	41.1	9,480	4,058	8	12.3	9.0	3.1	<0.01	<0.01	<0.01							81.974	72.881	7.66	147.0	176.0	138.0	7.29	67.2	161.0	119.0	49.00	<50.00	<0.50	20.00	<0.20
04/08/2016	6.99	<0.10	11.2		5.5	992	487	3	12.0	9.1	3.1	<0.01	<0.01	<0.01							96.821	96.084	7.55	39.6	54.0		7.12	5.3	12.6						
04/09/2016	6.93	<0.10	10.0		6.0	803	482	3	11.8	9.5	3.9	<0.01	<0.01	<0.01							95.918	94.792	7.48	46.0	47.0		7.23	5.5	10.6						
04/10/2016	6.92	<0.10	8.8	5.0	5.2	663	392	1	11.5	9.5	3.0	<0.01	<0.01	<0.01		0.23	17	0.10	8		96.905	95.728	7.62	58.0	38.0	29.0	7.29	5.2	9.4	7.4					
04/11/2016	6.86	<0.10	10.0	5.4	4.6	766	352	8	11.9	9.2	3.2	<0.01	<0.01	<0.01		0.19	15	0.11	8		98.175	96.933	7.52	78.0	65.0	47.0	7.20	3.9	11.4	6.4					
04/12/2016	6.87	<0.10	10.2	7.4	5.5	850	458	5	12.0	8.9	3.0	<0.01	<0.01	<0.01		0.20	17				97.650	96.982	7.41	120.0	71.0	53.0	7.13	5.0	8.4	3.8					
04/13/2016	6.84	<0.10	8.6	7.0	5.3	621	383	4	11.7	8.9	2.9	<0.01	<0.01	<0.01							98.762	97.208	7.45	78.0	72.0	70.0	6.96	5.7	7.8	6.8					
04/14/2016	6.81	<0.10	5.6	3.4	5.1	395	360	3	12.2	8.8	2.5	<0.01	<0.01	<0.01							98.152	98.495	7.65	85.0	74.0	57.0	7.30	6.0	9.0	6.2					
04/15/2016	6.90	0.10	8.6		5.1	610	362	4	12.0	8.7	3.6	<0.01	<0.01	<0.01							94.516	97.313	7.51	59.4	59.0		7.14	5.3	11.8						
04/16/2016	6.87	0.00	10.0		5.3	657	348	6	12.2	9.4	2.5	<0.01	<0.01	<0.01							95.351	94.845	7.49	70.0	61.0		7.13	5.9	11.4						
04/17/2016	6.88	0.00	5.4	4.8	4.4	349	284	0	12.3	8.6	2.8	<0.01	<0.01	<0.01		0.14	9	0.11	7		95.417	97.589	7.47	55.0	55.0	47.0	7.21	5.0	13.0	8.4					
04/18/2016	6.90	0.00	6.8	5.8	4.2	443	274	1	12.8	8.9	2.9	<0.01	<0.01	<0.01		0.12	8	0.13	8		98.409	98.365	7.56	84.0	72.0	65.0	7.28	4.2	11.2	9.4					
04/19/2016	7.03	<0.10	7.6	6.2	3.2	496	209	1	13.2	8.1	2.4	<0.01	<0.01	<0.01		0.19	12				99.186	98.155	7.66	126.0	65.0	55.0	7.25	5.4	8.4	8.0					
04/20/2016	6.91	<0.10	10.4	8.6	6.8	651	426	5	13.4	8.8	3.0	<0.01	<0.01	<0.01							98.029	96.364	7.54	80.0	54.0	52.0	7.09	5.3	11.2	9.0					
04/21/2016	6.78	<0.10	8.8	7.2	5.6	544	346	0	13.6	8.3	2.5	<0.01	<0.01	<0.01							98.133	98.053	7.64	126.0	95.0	80.0	7.44	6.7	11.4	8.6					
04/22/2016	7.00	<0.10	7.8	6.8	4.9	507	319	0	13.8	8.2	2.7	<0.01	<0.01	<0.01							95.463	94.179	7.45	102.0	77.0	66.0	7.95	4.7	10.4	6.6					
04/23/2016	6.84	<0.10	7.2	6.0	5.1	431	305	0	14.2	8.0	2.7	<0.01	<0.01	<0.01							95.820	94.462	7.51	87.0	63.0	54.0	8.11	4.8	8.4	7.0					
04/24/2016	6.89	<0.10	8.0	6.4	3.9	462	225	0	13.7	8.0	2.6	<0.01	<0.01	<0.01		0.30	17	0.13	8		98.134	97.015	7.62	99.0	77.0	66.0	7.40	5.5	11.4	8.2					
04/25/2016	6.94	<0.10	9.6	6.6	3.6	563	211	4	13.8	7.6	2.3	<0.01	<0.01	<0.01		0.22	13	0.14	8		98.925	97.857	7.32	111.0	71.0	61.0	7.33	5.7	10.4	7.4					
04/26/2016	6.92	<0.10	11.2	7.4	7.5	729	488	1	13.7	7.8	3.0	<0.01	<0.01	<0.01		0.24	16				97.768	98.014	7.13	99.0	108.0	79.0	7.38	5.3	9.2	7.0					
04/27/2016	6.87	<0.10	11.4	7.6	3.9	667	228	0	13.4	8.4	2.6	<0.01	<0.01	<0.01							99.000	97.192	7.59	108.0	85.0	76.0	7.19	3.7	10.4	6.0					
04/28/2016	6.91	<0.10	7.6	5.0	4.7	439	271	0	14.1	7.9	2.4	<0.01	<0.01	<0.01							98.747	98.598	7.68	114.0	110.0	87.0	7.38	5.9	10.4	6.4					
04/29/2016	6.92	<0.10	7.0	5.6	4.8	390	267	14	14.2	7.8	3.3	<0.01	<0.01	<0.01							98.987	98.704	7.36	180.0	184.0	164.0	7.15	6.6	9.7	6.9					
04/30/2016	6.87	<0.10	7.4	5.8	5.2	412	289	15	14.2	8.4	1.9	<0.01	<0.01	<0.01							97.451	98.835	7.31	147.0	127.0	108.0	7.18	4.0	12.0	9.6					
MMAVG													MMAVG		0.43																				
Min.	6.8	0.00	5	3	3	349	209	0	11.0	7.6	2			<0.01		0.12	8	0.10	7		81.97	72.88	7.1	39.6	38.0	29.0	7.0	3.7	7.4	3.8	49.0	<50	<0.50	20.0	<0.20
Max.	7.1	0.20	96	69	41	9480	4058	15	14.2	9.5	4			<0.01		0.30	17	0.40	28		99.19	98.83	7.7	180.0	184.0	164.0	8.1	67.2	161.0	119.0	49.0	<50	<0.50	20.0	<0.20
Total																																			
Average	6.9	<0.09	12	9	6	887	469	3	12.7	8.6	3			<0.01		0.19	13	0.17	11		97.08	96.15	7.5	95.4	81.2	70.6	7.3	7.3	15.2	11.5	49.0	<50	<0.50	20.0	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
04/01/2016	7,180	6,620	5,630	5,230	11,510	9,460	7.40	6.90	2,721,600	3,081,600	50,151	46,239					91	91	4,590	4,490	3,680	3,610	9,130	9,680	9.20	7.40	2,678,400	2,347,200	47,372	46,340	4,202	50,940	4,529	50,940	65	78
04/02/2016	7,290	6,840	6,020	5,540	11,660	9,430	6.11	5.57	2,664,000	3,268,800	50,919	47,776			4,094	51,430	106	111	4,150	4,150	3,400	3,400	8,410	9,500	9.38	7.17	2,851,200	2,160,000	42,831	42,831	4,200	56,198	5,880	71,345	87	96
04/03/2016	7,370	6,550	6,510	5,340	12,520	9,500	6.16	6.44	2,779,200	2,548,800	51,478	45,750	5,085	50,427	4,029	51,036	109	116	4,160	4,150	3,380	3,420	8,810	9,220	7.64	9.39	2,822,400	2,361,600	86,694	42,831					94	106
04/04/2016	7,720	6,660	6,190	5,020	12,390	10,160	6.44	7.12	2,793,600	2,851,200	53,922	46,518	4,594	49,336	4,910	50,258	110	132	5,350	4,790	3,920	3,750	8,720	7,370	8.08	9.85	2,822,400	2,390,400	55,216	49,436					82	100
04/05/2016	8,250	6,680	6,820	5,530	12,250	10,110	7.63	8.46	2,764,800	2,548,800	57,624	46,658	5,737	70,681	7,530	72,055	93	103	5,080	4,950	4,110	4,070	8,900	9,650	10.00	8.70	2,736,000	2,203,200	52,429	51,088					85	97
04/06/2016	9,390	6,070	7,450	4,840	11,310	9,750	3.58	3.07	2,952,000	2,606,400	65,587	42,397	6,360	69,954	5,929	71,318	75	99	5,160	4,660	4,090	3,730	9,000	10,780	7.77	9.94	2,851,200	2,217,600	53,255	48,095					78	88
04/07/2016	7,540	6,150	6,040	4,930	11,430	10,170	7.37	7.47	2,878,560	2,635,200	52,665	42,956	7,530	71,441	6,144	73,403	93	98	5,110	4,550	4,050	3,670	8,940	10,350	9.70	7.79	2,880,000	2,203,200	52,739	46,959					78	88
04/08/2016	5,640	6,270	4,630	5,010	10,320	9,360	7.77	7.54	2,606,400	2,505,600	39,394	43,794	2,219	24,405	2,065	24,785	73	88	5,050	4,300	2,910	3,410	10,520	11,420	9.49	7.24	2,793,600	2,260,800	52,120	44,379	6,103	70,844	6,025	71,356	81	84
04/09/2016	6,280	6,210	4,660	4,690	11,920	9,210	8.52	9.19	2,692,800	2,563,200	43,864	43,375					83	93	4,920	3,820	3,660	3,320	9,710	9,650	9.77	8.82	2,764,800	2,188,800	50,778	39,425	2,859	35,265	2,990	35,013	81	94
04/10/2016	6,020	6,080	4,830	3,420	11,280	9,780	8.88	9.34	2,649,600	1,828,800	42,048	42,467					108	115	4,050	4,030	3,220	2,150	7,900	9,930	10.00	9.28	2,707,200	2,361,600	41,799	41,593	7,123	108,112	7,108	107,890	99	94
04/11/2016	6,800	6,460	5,560	5,240	11,740	9,150	8.42	9.17	2,736,000	2,462,400	47,496	45,121					99	108	3,770	3,590	2,950	2,880	8,000	8,710	9.27	10.00	2,664,000	2,203,200	38,909	37,051	5,638	74,970	5,533	74,548	88	95
04/12/2016	7,390	6,830	5,960	5,470	11,850	9,860	8.05	8.16	2,822,400	2,620,800	51,617	47,706	5,750	66,680	4,931	67,650	93	92	3,830	3,590	2,960	2,910	7,870	7,930	8.77	9.99	2,707,200	2,332,800	39,528	37,051					78	84
04/13/2016	6,570	6,240	5,400	5,030	11,610	8,500	7.73	9.30	2,822,400	2,635,200	45,890	43,585	7,550	87,551	7,843	107,599	102	103	3,910	3,860	3,170	3,220	7,900	8,900	9.26	10.00	2,675,520	2,404,800	40,354	39,838					90	93
04/14/2016	6,830	5,640	5,490	4,520	11,900	7,360	8.35	9.35	2,793,600	2,678,400	47,706	39,394	26,699	85,643	2,866	42,906	84	92	4,180	4,250	3,350	3,470	8,490	9,490	8.85	9.93	2,692,800	2,376,000	43,141	43,863					81	85
04/15/2016	7,070	5,820	5,820	4,760	10,530	7,800	8.36	9.15	2,750,400	2,620,800	49,382	40,651	2,565	27,766			100	98	4,670	4,450	3,670	3,530	8,480	8,940	8.52	9.81	2,707,200	2,304,000	48,198	45,927	2,545	35,883	2,276	29,023	79	88
04/16/2016	7,230	5,930	5,820	4,750	11,080	8,500	8.22	8.75	2,808,000	2,491,200	50,500	41,420					97	89	4,090	4,190	3,290	3,440	7,870	8,590	9.76	8.35	2,793,600	2,462,400	42,212	43,244	2,300	39,124	3,011	36,033	86	91
04/17/2016	7,310	6,280	5,830	4,990	10,740	8,740	8.03	8.52	2,822,400	2,476,800	51,059	43,864					103	100	3,970	4,040	3,330	3,300	7,970	8,560	9.71	8.37	2,836,800	2,361,600	40,973	41,696	2,387	35,912	2,577	36,098	96	99
04/18/2016	7,200	5,780	5,740	4,500	12,110	8,710	7.46	8.32	2,736,000	2,563,200	50,290	40,372	4,798	51,900	3,892	53,400	101	107	3,850	4,080	3,110	3,280	7,410	7,980	9.46	8.08	2,822,400	2,246,400	39,735	42,109					94	96
04/19/2016	7,550	5,690	6,030	4,580	11,620	7,900	7.06	8.71	2,764,800	2,635,200	52,735	39,743	6,371	71,124	4,903	71,865	85	90	3,980	4,030	3,250	3,320	7,750	8,200	9.17	7.39	2,678,400	2,361,600	41,077	41,593					85	92
04/20/2016	7,290	5,170	5,720	4,180	12,220	7,760	7.44	9.21	2,750,400	2,592,000	50,919	36,111	6,443	70,355	5,004	70,508	95	101	4,030	3,880	3,260	3,420	7,880	8,600	9.27	7.55	2,606,400	2,246,400	41,593	40,045					94	108
04/21/2016	7,520	5,260	5,970	4,140	7,280	11,720	7.04	7.57	2,822,400	2,635,200	52,525	36,740	1,530	16,434	1,480	21,297	88	89	4,640	4,480	3,670	3,590	7,920	9,060	9.17	8.20	2,635,200	2,217,600	47,888	46,237	7,872	101,600	8,254	101,555	82	94
04/22/2016	7,960	5,690	6,300	4,610	12,850	8,100	6.09	6.79	2,836,800	2,563,200	55,599	39,743	4,759	50,500	3,382	50,500	87	86	4,530	4,030	3,730	3,270	7,990	8,100	8.87	6.79	2,664,000	2,131,200	46,753	41,593	3,256	40,883	3,294	40,849	73	82
04/23/2016	5,830	7,170	4,750	5,880	11,680	7,180	6.00	6.50	2,649,600	2,678,400	40,721	50,081	1,899	20,153	1,400	20,907	117	63	4,710	4,090	3,750	3,200	8,520	8,500	8.50	7.50	2,649,600	2,232,000	48,611	42,212	2,565	36,102	2,143	30,235	68	83
04/24/2016	8,940	5,730	7,160	4,660	11,900	8,310	5.90	7.20	2,606,400	2,592,000	62,444	40,023					82	80	4,330	3,920	3,650	3,280	7,210	7,130	8.80	8.30	2,793,600	2,246,400	44,689	40,457	2,176	36,186	2,107	35,437	81	94
04/25/2016	8,050	4,730	6,470	3,820	12,610	8,360	5.68	6.52	2,808,000	2,520,000	56,227	33,038	7,500	75,380	5,070	75,280	82	102	4,080	4,250	3,250	3,380	7,980	7,910	8.78	7.85	2,707,200	2,203,200	42,109	43,863					83	78
04/26/2016	7,500	5,720	5,940	4,560	7,390	12,450	5.80	7.25	2,980,800	2,822,400	52,386	39,953	8,789	106,564	24,422	107,936	60	110	4,480	3,940	3,580	3,180	8,160	8,090	8.67	7.41	2,707,200	2,246,400	46,237	40,664					87	91
04/27/2016	8,000	4,940	6,740	4,000	12,650	7,090	6.48	8.12	2,793,600	2,548,800	55,878	34,505	11,262	107,608	6,178	107,859	85	81	4,480	4,290	3,730	3,550	8,330	8,480	8.95	7.85	2,606,400	2,246,400	46,237	44,276					89	89
04/28/2016	7,970	4,500	6,470	3,740	12,580	4,950	6.33	8.20	2,793,600	2,721,600	55,668	31,431	16,362	172,098	2,174	42,316	82	84	4,560	4,270	3,920	3,830	8,360	7,590	8.74	7.57	2,678,400	2,289,600	47,063	44,070					90	96
04/29/2016	7,620	4,880	6,130	3,930	10,570	7,460	6.52	7.55	2,865,600	2,750,400	53,224	34,086	19,117	218,267			80	82	4,950	4,550	4,030	3,710	8,580	9,300	8.42	6.99	2,550,240	2,044,800	51,088	46,959					87	90
04/30/2016	7,110	5,500	5,870	4,480	6,280	5,430	7.00	7.90	2,923,200	3,312,000	49,662	38,416	61,112	63,690			68	69	5,460	5,130	4,430	4,080	9,200	9,230	8.20	7.00	2,563,200	2,073,600	56,351	52,945	2,854	36,230	2,936	36,194	64	68
MMAVG																																				
Min.	5,640	4,500	4,630	3,420	6,280	4,950	4	3	2,606,400	1,828,800	39,394	31,431	1,530	16,434	1,400	20,907	60	63	3,770	3,590	2,910	2,150	7,210	7,130	8	7	2,550,240	2,044,800	38,909	37,051	2,176	35,265	2,107	29,023	64	68
Max.	9,390	7,170	7,450	5,880	12,850	12,450	9	9	2,980,800	3,312,000	65,587	50,081	61,112	218,267	24,422	107,936	117	132	5,460	5,130	4,430	4,080	10,520	11,420	10	10	2,880,000	2,462,400	56,351	52,945	7,872	108,112	8,254	107,890	99	108
Total									83,388,960	79,358,400	1,539,580	1,243,913	224,031	1,627,957	108,246	1,234,308											81,646,560	67,924,800	1,384,219	1,308,670	56,080	758,249	58,663	756,516		
Average	7,347	5,936	5,932	4,713	11,259	8,742	7	8	2,779,632	2,645,280	51,319	41,464	10,183	73,998	5,412	61,715	91	96	4,471	4,227	3,550	3,412	8,397	8,895	9	8	2,721,552	2,264,160	46,141	43,622	4,006	54,161	4,190	54,037	83	91

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
05/01/2016	6.70	10.69	3.68	0.10	0.493	0.000	5,347		53.0	13.0	7.53	354	472	19,781	26,374		7.52	3.9	151	133	192	8,438	10,729		
05/02/2016	7.75	20.53	3.68	0.50	0.478	0.000	25,536		39.0	13.2	7.66	369	492	23,850	31,800		7.69	2.0	123	97	203	7,950	13,121		
05/03/2016	7.27	11.81	3.89	0.10	0.511	0.000	33,310		45.0	13.1	7.71	372	526	22,555	31,892		7.69	3.5	135	117	240	8,185	14,552		
05/04/2016	7.02	11.78	4.22	0.10	0.444	0.000	64,796		42.0	13.1	7.69	384	614	22,482	35,948		7.68	2.8	156	128	182	9,133	10,656		
05/05/2016	7.33	15.31	4.00	0.20	0.414	0.000	40,204		40.0	13.1	7.73	363	1140	22,191	69,691		7.72	5.2	172	146	204	10,515	12,471		
05/06/2016	7.89	18.19	4.08	0.15	0.443	0.000	53,548		48.0	13.2	7.66	492	638	32,375	41,982		7.39	8.0	219	179	188	14,411	12,371		
05/07/2016	7.05	11.68	3.82	0.00	0.431	0.000	20,787		45.0	13.1	7.71	795	494	46,744	29,046		7.38	6.0	203	165	204	11,936	11,995		
05/08/2016	6.89	11.44	4.10	0.00	0.424	0.000			45.0	14.1	7.72	266	394	15,285	22,640		7.49	4.2	150	131	188	8,619	10,803		
05/09/2016	6.95	10.50	3.65	0.00	0.452	0.000	65,949		55.0	15.1	7.70	330	740	19,128	42,893		7.57	8.0	244	208	212	14,143	12,288		
05/10/2016	6.60	10.77	3.21	0.00	0.461	0.000	43,866		58.0	15.2	7.63	315	582	17,339	32,036		7.52	8.0	239	205	230	13,156	12,660		
05/11/2016	6.53	9.61	8.62	0.00	0.454	0.000	34,772		66.0	15.3	7.66	390	588	21,239	32,023		7.52	9.5	242	222	204	13,179	11,110		
05/12/2016	6.34	9.01	2.94	0.00	0.384	0.000	42,685		72.0	14.7	7.61	342	586	18,083	30,985		7.50	8.1	208	172	224	10,998	11,844		
05/13/2016	7.29	22.15	3.57	0.20	0.472	0.000	53,541		69.0	14.9	7.50	840	1160	51,071	70,526		7.37	11.0	313		246	19,030	14,956		
05/14/2016	6.39	9.32	3.54	0.00	0.460	0.000	12,156		59.0	14.1	7.61	228	432	12,151	23,022		7.37	5.0	191		125	10,179	6,662		
05/15/2016	6.45	9.48	3.29	0.00	0.473	0.000			49.0	14.5	7.68	281	454	15,116	24,422		7.61	8.5	221	183	189	11,888	10,167		
05/16/2016	6.39	9.64	3.23	0.00	0.506	0.000	34,947		51.0	15.0	7.60	330	674	17,587	35,919		7.53	7.2	220	183	221	11,724	11,778		
05/17/2016	6.22	9.76	3.60	0.00	0.520	0.000	40,869		61.0	15.2	7.60	435	784	22,566	40,670		7.52	8.0	209	178	300	10,842	15,562		
05/18/2016	6.17	9.83	3.12	0.00	0.508	0.000	46,815		69.0	15.7	7.62	480	794	24,700	40,857		7.53	15.0	367	310	360	18,885	18,525		
05/19/2016	7.29	23.92	3.34	0.40	0.500	0.080	45,945		55.0	14.2	7.62	402	814	24,441	49,490		7.64	16.0	348	285	255	21,158	15,504		
05/20/2016	6.26	10.92	2.73	0.00	0.429	0.000	54,692		61.0	15.3	7.59	419	1014	21,875	52,939		7.35	10.0	292		234	15,245	12,217		
05/21/2016	5.94	9.05	3.08	0.00	0.527	0.000	25,119		71.0	14.4	7.61	188	384	9,313	19,023		7.30	3.0	148	121	114	7,332	5,648		
05/22/2016	5.86	9.65	3.13	0.00	0.500	0.000	7,461		70.0	14.5	7.64	375	738	18,327	36,068		7.52	8.2	209	169	261	10,214	12,756		
05/23/2016	5.90	20.39	2.95	0.30	0.508	0.000	68,738		71.0	15.3	7.60	450	920	22,143	45,270		7.57	11.0	302	242	308	14,860	15,155		
05/24/2016	7.43	20.76	3.07	0.10	0.491	0.000	35,042		57.0	15.6	7.64	390	852	24,167	52,795		7.47	23.0	527	436	395	32,656	24,477		
05/25/2016	5.90	10.09	2.69	0.00	0.465	0.000	50,590		79.0	15.7	7.75	570	760	28,047	37,397		7.44	35.0	635	513	570	31,246	28,047		
05/26/2016	5.79	8.80	2.68	0.00	0.458	0.000	34,196		88.0	15.5	7.67	945	556	45,633	26,848		7.59	23.0	424	351	480	20,474	23,179		
05/27/2016	5.75	8.85	2.65	0.00	0.469	0.000	40,198		79.0	16.6	7.70	548	616	26,279	29,540		7.48	12.0	313	250	306	15,010	14,674		
05/28/2016	5.48	8.10	2.69	0.00	0.475	0.000	8,246		75.0	16.6	7.77		610		27,879		7.41	10.0	276	225		12,614			
05/29/2016	5.56	9.32	2.89	0.20	0.405	0.000			65.0	16.2	7.86		556		25,782		7.68	5.0	166	134		7,697			
05/30/2016	6.24	10.57	2.95	0.00	0.423	0.000	7,393		64.0	16.4	7.72		796		41,425		7.69	5.7	172	141		8,951			
05/31/2016	5.70	8.15	0.00	0.00	0.454	0.000	57,303		80.0	17.2	7.72		690		32,801		7.76	6.2	175	144		8,319			
MMAVG	7.09																								
Min.	5.5	8.1	0.0	0.0		0.000	5,347		39.0	13.0	7.50	188	384	9,313	19,023		7.30	2.0	123	97	114	7332	5648		
Max.	7.9	23.9	8.6	0.5		0.080	68,738		88.0	17.2	7.86	945	1160	51,071	70,526		7.76	35.0	635	513	570	32656	28047		
Total	202.3	380.1	105.1	2.4		0.080	1,054,051																		
Average	6.5	12.3	3.4	0.1		0.003	37,645		60.68	14.81	7.66	432	673	23869	36774		7.53	9.4	250	206	253	13516	13848		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																			PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
05/01/2016	6.85	<0.10	6.4	5.0	2.7	358	151	2	14.0	8.5	1.9	<0.01	<0.01	<0.01		0.26	15	0.14	8		99.237	98.644	7.54	117	82.0	67.0	7.33	6.6	19.2	15.0					
05/02/2016	6.89	<0.10	9.6	5.0	4.4	620	284	6	14.3	7.7	2.6	<0.01	<0.01	<0.01		0.28	18	0.13	8		98.808	98.049	7.71	135	65.0	52.0	7.25	6.1	17.0	11.4					
05/03/2016	6.90	<0.10	5.8	4.4	4.7	352	285	6	14.4	7.6	3.2	<0.01	<0.01	<0.01		0.30	18	0.12	7		98.737	98.897	7.65	132	76.0	70.0	7.27	3.8	14.4	11.0					
05/04/2016	6.85	<0.10	10.0	7.4	3.8	585	222	1	14.5	7.5	2.7	<0.01	<0.01	<0.01							99.010	98.371	7.70	138	95.0	77.0	7.31	5.9	15.8	12.4					
05/05/2016	6.73	<0.10	8.8	6.2	4.9	538	300	3	14.3	7.7	3.4	<0.01	<0.01	<0.01							98.650	99.228	7.77	174	88.0	73.0	7.30	7.3	19.6	14.2	75.00	<50.00	<0.50	25.00	<0.20
05/06/2016	6.81	<0.10	15.0	12.2	5.4	987	355	42	14.4	7.5	3.3	<0.01	<0.01	<0.01							98.902	97.649	7.53	117	125.0	91.0	7.19	6.5	18.0	12.6					
05/07/2016	6.87	<0.10	6.5	4.9	5.0	382	294	0	14.7	8.3	1.6	<0.01	<0.01	<0.01							99.371	98.684	7.45	135	119.0	88.0	7.17	6.4	11.1	7.8					
05/08/2016	6.88	<0.01	5.8	3.8	3.1	333	178	0	14.8	8.2	1.2	<0.01	<0.01	<0.01		0.32	18	0.16	9		98.835	98.528	7.70	114	85.0	68.0	7.43	3.7	11.8	9.0					
05/09/2016	6.95	<0.10	9.8	11.8	2.3	568	133	2	15.2	8.5	2.8	<0.01	<0.01	<0.01		0.28	16	0.23	13		99.303	98.676	7.72	153	128.0	110.0	7.34	3.4	14.2	9.4					
05/10/2016	6.98	<0.10	6.8	5.6	3.8	374	209	0	15.6	8.4	2.7	<0.01	<0.01	<0.01		0.31	17	0.18	10		98.794	98.832	7.61	129	99.0	92.0	7.33	3.4	10.0	8.6					
05/11/2016	6.93	<0.10	5.2	4.2	4.9	283	267	2	15.9	7.8	2.3	<0.01	<0.01	<0.01							98.744	99.116	7.59	102	93.0	85.0	7.28	4.3	11.4	10.4					
05/12/2016	6.80	<0.10	7.6	5.2	4.3	402	227	1	16.1	7.8	2.4	<0.01	<0.01	<0.01							98.743	98.703	7.58	102	82.0	51.0	7.22	10.0	17.6	12.2					
05/13/2016	6.84	<0.10	10.2		4.7	620	286	2	16.1	6.1	2.7	<0.01	<0.01	<0.01							99.440	99.121	7.31	94	498.0		7.01	7.3	17.0						
05/14/2016	6.79	0.01	9.0		2.8	480	149	0	16.0	7.6	2.1	<0.01	<0.01	<0.01							98.772	97.917	7.32	51	83.0		7.19	3.4	13.2						
05/15/2016	6.86	0.10	7.6	5.0	2.5	409	134	0	15.8	7.7	2.0	<0.01	<0.01	<0.01		0.35	19	0.24	13		99.110	98.326	7.65	45	84.0	69.0	7.49	3.4	10.8	7.8					
05/16/2016	6.88	<0.10	7.0	4.8	4.2	373	224	1	15.7	8.0	3.2	<0.01	<0.01	<0.01		0.31	17	0.10	5		98.727	98.961	7.63	105	78.0	66.0	7.38	5.6	13.8	10.2					
05/17/2016	6.80	<0.10	6.0	4.6	3.8	311	197	3	16.0	8.2	3.0	<0.01	<0.01	<0.01		0.30	16	0.12	6		99.126	99.235	7.44	129	86.0	76.0	7.13	6.5	15.4	11.6					
05/18/2016	6.78	<0.10	8.0	6.0	4.2	412	216	0	16.1	7.8	2.1	<0.01	<0.01	<0.01							99.125	98.992	7.62	180	149.0	124.0	7.28	5.6	20.0	13.8					
05/19/2016	6.81	<0.10	12.0	7.2	6.2	730	377	1	16.2	6.9	3.1	<0.01	<0.01	<0.01							98.458	98.526	7.67	123	149.0	115.0	7.34	7.3	18.0	11.8					
05/20/2016	6.81	<0.10	8.2		3.7	428	193	1	16.8	7.4	2.9	<0.01	<0.01	<0.01							99.117	99.191	7.46	138	166.0		7.18	5.9	18.4						
05/21/2016	6.89	<0.10	0.9		2.0	45	99	6	16.4	7.4	2.3	<0.01	<0.01	<0.01							98.936	99.766	7.45	99	90.6	72.8	7.20	4.3	18.6	14.2					
05/22/2016	6.95	<0.10	7.6	5.0	2.9	371	142	1	16.5	7.4	2.3	<0.01	<0.01	<0.01		0.25	12	0.20	10		99.227	98.970	7.70	135	126.0	109.0	7.37	4.3	14.8	11.6					
05/23/2016	6.81	<0.10	10.0	6.4	3.8	492	187	2	17.4	7.3	2.4	<0.01	<0.01	<0.01		0.29	14	0.23	11		99.156	98.913	7.61	162	157.0	121.0	7.22	5.5	21.0	14.4					
05/24/2016	6.58	0.20	9.4	6.4	5.0	582	310	18	17.1	7.4	3.8	<0.01	<0.01	<0.01		0.32	20	0.22	14		98.718	98.897	7.65	192	209.0	171.0	7.25	8.3	197.2	193.0					
05/25/2016	6.97	<0.10	8.2	6.0	6.6	403	325	1	17.6	6.9	2.5	<0.01	<0.01	<0.01							98.842	98.921	7.50	192	325.0	267.0	7.25	6.3	13.0	10.6					
05/26/2016	6.88	<0.10	7.4	6.4	4.1	357	198	0	18.2	7.0	2.2	<0.01	<0.01	<0.01							99.566	98.669	7.55	135	145.0	126.0	7.33	5.2	11.2	9.4					
05/27/2016	6.91	<0.10	4.2	4.6	4.0	201	192	0	18.6	7.0	1.8	<0.01	<0.01	<0.01							99.270	99.318	7.49	120	121.0	97.0	8.00	6.1	10.4	8.2					
05/28/2016	6.87	<0.01	7.4	4.8		338		0	18.5	6.4	1.6	<0.01	<0.01	<0.01								98.787	7.45		119.0	90.0	8.08		14.0	10.4					
05/29/2016	6.80	<0.01	8.0	6.2		371		2	18.8	6.2	1.5	<0.01	<0.01	<0.01		0.28	13	0.15	7			98.561	7.62		88.0	71.0	8.09		18.4	12.8					
05/30/2016	6.83	<0.01	7.4	5.4		385		12	18.1	6.9	2.4	<0.01	<0.01	<0.01		0.33	17	0.16	8			99.070	7.67		91.0	71.0	7.46		17.0	13.4					
05/31/2016	6.81	<0.10	7.4	4.4		352		2	19.2	6.9	2.6	<0.01	<0.01	<0.01		0.37	18	0.11	5			98.928	7.68		102.0	87.0	7.43		21.0	16.2					
MMAVG														MMAVG		0.42																			
Min.	6.6	<0.01	1	4	2	45	99	0	14.0	6.1	1			<0.01		0.25	12	0.10	5		98.46	97.65	7.3	45.0	65.0	51.0	7.0	3.4	10.0	7.8	75.0	<50	<0.50	25.0	<0.20
Max.	7.0	0.20	15	12	7	987	377	42	19.2	8.5	4			<0.01		0.37	20	0.24	14		99.57	99.77	7.8	192.0	498.0	267.0	8.1	10.0	197.2	193.0	75.0	<50	<0.50	25.0	<0.20
Total																																			
Average	6.8	<0.09	8	6	4	434	227	4	16.2	7.5	2			<0.01		0.30	16	0.17	9		98.99	98.79	7.6	127.7	129.1	94.9	7.4	5.6	21.4	18.0	75.0	<50	<0.50	25.0	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
05/01/2016	6,980	5,330	5,680	4,260	7,160	9,070	7.11	7.87	2,793,600	2,692,800	48,754	37,229					72	83	5,050	4,610	4,180	3,740	8,350	9,640	8.17	7.90	2,534,400	2,016,000	52,120	47,579	2,501	35,910	2,926	36,400	85	89
05/02/2016	7,070	6,010	5,770	4,870	10,840	8,640	6.40	7.20	2,779,200	3,009,600	49,382	41,978	1,755	29,396	2,299	30,391	64	72	5,450	4,660	4,410	3,760	8,770	9,760	8.10	7.60	2,563,200	2,030,400	56,248	48,095					73	77
05/03/2016	7,040	5,970	5,670	4,810	10,100	7,900	8.07	5.93	2,764,800	3,009,600	49,173	41,699	3,201	35,952	2,260	36,082	78	92	5,660	4,790	4,540	3,860	9,420	10,070	8.09	6.81	2,620,800	2,073,600	86,694	49,436	1,119	13,550	1,201	13,270	88	84
05/04/2016	6,470	7,180	5,030	5,590	9,690	8,660	8.70	7.10	2,822,400	2,980,800	45,191	50,151	3,105	36,078	2,704	35,703	70	64	5,330	4,270	4,240	3,340	9,380	9,500	8.20	7.50	2,376,000	1,972,800	55,010	44,070	2,755	33,226	2,909	32,809	75	89
05/05/2016	7,170	6,220	5,860	5,040	10,080	9,030	6.50	7.30	2,880,000	3,052,800	50,081	43,445	3,132	35,837	2,714	36,707	66	80	5,260	4,490	4,280	3,700	4,200	9,580	8.30	7.70	2,419,200	2,030,400	54,287	46,340	2,874	34,797	2,851	33,875	76	82
05/06/2016	6,860	6,220	5,530	5,450	11,070	8,340	5.70	7.20	2,865,600	2,952,000	47,915	43,445	2,888	35,210	2,752	36,438	66	76	4,960	4,020	4,050	3,390	8,480	8,880	8.20	7.50	2,376,000	2,016,000	51,191	41,489	2,694	34,141	2,814	33,721	81	95
05/07/2016	7,650	6,750	6,150	5,370	10,850	9,380	5.53	6.49	2,808,000	3,041,280	53,433	47,147	3,368	35,772	2,878	36,756	75	74	5,200	4,500	4,110	3,530	8,420	8,950	8.29	7.34	2,390,400	2,044,800	53,668	46,443	2,654	35,488	2,901	35,444	77	84
05/08/2016	8,150	7,080	6,520	5,700	10,970	10,110	5.60	5.93	2,836,800	2,980,800	56,926	49,452	3,227	35,464	2,908	35,778	63	72	5,240	4,430	4,160	3,530	8,530	9,060	8.18	7.27	2,448,000	2,030,400	54,081	45,721	2,596	36,849	2,737	36,563	78	75
05/09/2016	7,660	6,970	6,890	6,280	10,880	9,620	4.71	5.53	2,851,200	3,009,600	53,503	48,684	3,381	36,160	2,973	35,668	65	72	5,360	4,410	3,250	2,710	8,680	9,270	7.25	8.02	2,592,000	2,131,200	55,319	45,515	2,654	35,950	2,815	36,402	73	75
05/10/2016	8,000	6,830	6,200	5,330	10,340	10,260	5.09	5.77	2,851,200	3,009,600	55,878	47,706	3,165	34,836	2,961	35,257	65	79	5,190	3,940	4,060	3,120	8,310	8,640	6.40	8.21	2,520,000	2,160,000	53,565	40,664	4,702	62,879	4,855	63,309	77	81
05/11/2016	8,300	7,270	6,530	5,760	10,690	10,260	4.00	4.90	2,851,200	2,908,800	57,973	50,779	2,995	32,916	3,025	36,311	60	69	5,410	4,240	4,280	3,470	8,290	8,580	5.70	7.70	2,476,800	2,102,400	55,835	43,760	2,497	36,109	2,578	36,032	67	73
05/12/2016	8,470	7,410	6,860	5,980	10,560	10,840	5.45	5.59	2,793,600	2,966,400	59,161	51,757	3,316	36,457	3,190	36,055	59	62	5,230	4,120	4,170	3,340	7,810	8,340	8.03	7.24	2,448,000	2,059,200	53,978	42,521	2,457	36,083	2,509	35,966	65	70
05/13/2016	8,670	7,620	6,930	6,080	9,990	10,410	5.09	4.64	2,793,600	3,009,600	60,558	53,224	1,203	14,442	1,257	14,478	53	66	5,110	3,940	4,110	3,240	7,910	7,660	7.63	6.73	2,462,400	2,059,200	52,739	40,664	2,681	39,138	2,600	38,853	65	71
05/14/2016	8,310	8,200	6,730	6,480	11,730	10,080	4.23	3.62	2,649,600	2,995,200	58,043	57,275	3,221	36,157	1,935	22,282	55	59	5,310	3,680	4,310	3,040	8,520	8,380	7.60	5.70	2,419,200	2,001,600	54,803	37,980	3,577	43,234	3,193	42,782	58	71
05/15/2016	7,830	7,120	6,050	5,580	10,140	10,630	4.91	4.08	2,592,000	3,024,000	54,691	49,731	5,577	59,027	5,041	59,150	68	77	4,330	3,510	3,340	2,720	7,730	7,190	7.64	6.01	2,462,400	2,016,000	44,689	36,226	2,870	42,353	2,738	42,178	69	83
05/16/2016	8,190	8,450	6,460	6,770	11,020	10,500	5.54	4.87	2,764,800	3,052,800	57,205	59,021	2,133	24,936	2,196	24,771	70	65	4,530	3,610	3,650	2,980	7,390	7,640	6.89	8.00	2,419,200	2,088,000	46,753	37,258	2,829	43,326	2,671	43,669	68	78
05/17/2016	8,240	7,710	6,440	6,030	10,970	10,080	5.38	5.12	2,764,800	3,096,000	57,554	53,852			3,998	43,742	69	66	4,480	3,370	3,590	2,750	7,100	6,770	7.18	8.06	2,448,000	2,059,200	46,237	34,781	4,545	51,122	3,852	42,417	63	80
05/18/2016	9,170	8,400	7,380	6,610	11,370	11,350	5.02	4.54	2,880,000	3,139,200	64,050	58,672	5,980	61,817	5,218	57,061	67	63	4,580	3,700	3,710	2,920	7,620	7,330	7.04	7.94	2,505,600	2,030,400	47,269	38,187			340	5,229	61	70
05/19/2016	8,710	8,070	6,910	6,420	10,660	10,270	4.87	3.98	2,880,000	3,211,200	60,837	56,367	7,079	71,721	6,389	72,477	63	64	4,870	3,990	4,000	3,280	7,350	7,460	6.59	7.49	2,476,800	2,088,000	50,262	41,180					62	70
05/20/2016	8,080	7,970	6,350	6,250	11,920	10,580	4.96	5.48	2,908,800	3,081,600	56,437	55,668	17,486	183,842	16,629	187,650	69	64	5,110	4,080	3,860	3,240	8,420	8,450	6.15	7.47	2,448,000	2,088,000	52,739	42,109					55	66
05/21/2016	6,040	7,410	4,660	5,750	7,370	10,240	6.50	6.21	2,649,600	3,052,800	42,188	51,757	9,550	107,517	9,470	108,448	61	72	5,390	4,190	4,230	3,380	7,200	8,900	7.53	7.10	2,520,000	2,102,400	55,629	43,244					63	81
05/22/2016	5,180	7,070	4,050	5,600	6,430	10,330	7.20	6.32	2,779,200	3,153,600	36,181	49,382	4,586	85,525	7,613	88,362	54	57	5,200	4,170	4,050	3,350	7,730	9,020	7.00	7.51	2,491,200	2,059,200	53,668	43,038					58	72
05/23/2016	4,560	6,430	3,610	4,990	8,360	9,310	7.53	6.14	2,808,000	3,052,800	31,850	44,912	3,352	52,027	4,252	52,825	50	61	5,360	3,890	4,240	3,130	7,400	9,050	7.75	7.02	2,577,600	2,044,800	55,319	40,148					56	80
05/24/2016	3,820	6,830	3,110	5,440	9,300	5,290	5.10	2.66	2,721,600	3,081,600	26,682	47,706	5,462	107,538	8,086	108,325	52	51	4,940	3,950	4,270	3,380	10,120	9,730	5.50	6.91	2,520,000	2,044,800	50,985	40,767					53	66
05/25/2016	5,240	7,050	4,220	5,590	7,110	8,490	7.13	5.82	2,937,600	3,067,200	36,600	49,242	948	18,527	1,853	19,134	38	57	6,110	5,030	4,690	4,000	8,920	9,940	7.85	6.66	2,462,400	1,987,200	63,060	51,913	3,343	43,340	3,592	42,499	51	66
05/26/2016	4,650	6,810	3,840	5,590	5,600	9,020	6.89	4.56	2,966,400	3,139,200	32,479	47,566	1,707	36,726	3,363	41,806	47	53	6,410	5,370	5,060	4,320	9,340	9,990	6.98	5.86	2,376,000	1,958,400	66,156	55,422	3,565	43,242	3,841	43,366	47	65
05/27/2016	5,080	6,520	4,060	5,560	7,100	10,170	6.73	4.21	2,980,800	3,067,200	35,483	45,541	1,385	25,503	1,963	25,448	47	61	6,480	4,830	5,120	3,960	9,820	9,710	6.91	5.80	2,404,800	1,958,400	66,878	49,849	3,654	42,436	3,919	42,275	46	73
05/28/2016	4,960	7,140	3,860	5,560	5,320	10,130	6.60	3.20	2,721,600	2,966,400	34,644	49,871	1,279	25,619	2,068	24,901	50	56	5,880	4,970	4,600	3,890	9,630	8,810	5.60	6.20	2,548,800	2,059,200	60,686	51,294					46	60
05/29/2016	4,840	7,450	3,910	5,890	7,780	10,700	6.90	3.40	2,764,800	3,081,600	33,806	52,036	2,375	43,474	3,776	43,474	52	60	6,290	5,200	4,970	4,170	9,410	10,310	5.80	6.50	2,462,400	2,044,800	64,918	53,668	1,159	14,764	1,272	14,788	48	67
05/30/2016	4,390	7,410	3,370	5,740	4,920	10,320	6.95	3.64	2,793,600	3,052,800	30,663	51,757					52	54	5,650	4,510	4,480	3,640	9,440	9,880	7.16	6.48	2,548,800	2,073,600	58,312	46,547	2,226	28,367	2,469	28,709	48	64
05/31/2016	3,830	7,780	3,600	6,070	3,000	10,530	7.14	3.53	2,865,600	3,081,600	26,752	54,341	783	5,693	1,854	21,110	63	57	6,660	5,740	4,920	3,660	8,330	11,160	6.22	6.96	2,476,800	2,001,600	68,736	59,241			22,264	43,453	45	49
MMAVG																																				
Min.	3,820	5,330	3,110	4,260	3,000	5,290	4	3	2,592,000	2,692,800	26,682	37,229	783	5,693	1,257	14,478	38	51	4,330	3,370	3,250	2,710	4,200	6,770	6	6	2,376,000	1,958,400	44,689	34,781	1,119	13,550	340	5,229	45	49
Max.	9,170	8,450	7,380	6,770	11,920	11,350	9	8	2,980,800	3,211,200	64,050	59,021	17,486	183,842	16,629	187,650	78	92	6,660	5,740	5,120	4,320	10,120	11,160	8	8	2,620,800	2,160,000	68,736	59,241	4,702	62,879	22,264	63,309	88	95
Total									87,120,000	94,020,480	1,464,073	1,541,393	107,639	1,344,169	117,625	1,406,590											76,795,200	63,432,000	1,713,555	1,385,149	59,952	786,304	83,847	824,009		
Average	6,762	7,119	5,427	5,692	9,139	9,695	6	5	2,810,323	3,032,919	47,228	49,722	3,844	48,006	4,056	48,503	61	66	5,356	4,329	4,224	3,437	8,323	8,956	7	7	2,477,265	2,046,194	55,276	44,682	2,855	37,443	3,646	35,826	64	74

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
06/01/2016	5.33	9.15	2.45	0.00	0.395	0.000			77.0	17.1	7.79	447	718	19,870	31,917		7.76	4.5	177	148	258	7,868	11,469		
06/02/2016	6.12	11.17	2.86	0.00	0.324	0.000	28,785		58.0	16.7	7.77	450	814	22,968	41,547		7.65	12.0	346	283	326	17,660	16,639		
06/03/2016	5.18	9.94	2.98	0.00	0.313	0.000	41,393		58.0	16.4	6.70	306	2342	13,220	101,177		6.68	53.0	1840	1489	423	79,490	18,274		
06/04/2016	4.44	9.89	2.54	0.00	0.348	0.000	16,879		59.0	16.5	6.75	240	662	8,887	24,514		6.69	43.0	933	743	444	34,549	16,441		
06/05/2016	7.87	27.51	2.89	0.80	0.362	0.233			60.0	16.5	7.64	384	964	25,204	63,273		7.54	15.0	397	312	264	26,057	17,328		
06/06/2016	5.85	27.52	2.65	0.00	0.341	0.000	31,834		76.0	16.9	7.79	389	604	18,979	29,469		7.68	11.0	233	174	252	11,368	12,295		
06/07/2016	5.57	9.33	2.75	0.00	0.364	0.000	33,449		76.0	17.3	7.76	375	866	17,420	40,229		7.70	5.7	156	126	252	7,247	11,706		
06/08/2016	5.51	9.20	2.68	0.00	0.380	0.000	38,785		70.0	17.6	7.73	411	696	18,887	31,984		7.71	6.0	216	171	246	9,926	11,305		
06/09/2016	5.40	9.33	2.55	0.00	0.392	0.000	38,055		59.0	17.5	7.77	426	858	19,185	38,641		7.62	12.5	320	256	288	14,412	12,970		
06/10/2016	5.23	9.93	2.08	0.00	0.402	0.000	48,256		62.0	18.1	7.71	191	612	8,331	26,694		7.73	20.0	302	248	192	13,173	8,375		
06/11/2016	5.15	9.72	2.30	0.05	0.391	0.000	4,415		60.0	16.9	7.56	153	686	6,572	29,464		7.26	8.0	251	207	213	10,781	9,149		
06/12/2016	5.07	8.68	2.40	0.00	0.403	0.000	5,606		77.0	17.9	7.63	350	580	14,799	24,525		7.54	4.0	159	134	182	6,723	7,696		
06/13/2016	5.30	9.46	2.19	0.00	0.399	0.000	25,607		62.0	17.9	7.68	360	782	15,913	34,566		7.56	2.7	147	121	195	6,498	8,619		
06/14/2016	4.89	7.71	1.98	0.00	0.388	0.000	37,583		72.0	17.6	7.65	465	1142	18,964	46,574		7.53	5.5	191	157	272	7,789	11,093		
06/15/2016	4.88	7.86	2.13	0.00	0.385	0.000	32,351		78.0	17.8	7.77	480	1210	19,536	49,246		7.49	9.5	272	223	321	11,070	13,064		
06/16/2016	4.73	7.59	2.23	0.00	0.399	0.000	36,947		80.0	18.0	7.83	450	1060	17,752	41,815		7.59	11.0	353	291	294	13,925	11,598		
06/17/2016	4.75	8.04	1.97	0.00	0.338	0.000	48,867		80.0	18.1	7.79	500	1408	19,808	55,778		7.26	10.0	349		306	13,826	12,122		
06/18/2016	4.63	7.49	1.85	0.00	0.355	0.000	11,862		62.0	18.0	7.73	255	668	9,847	25,794		7.38	8.0	299		174	11,546	6,719		
06/19/2016	4.48	7.19	1.82	0.00	0.376	0.000			60.0	17.7	7.76	345	686	12,890	25,631		7.55	3.0	158	132	248	5,903	9,266		
06/20/2016	4.86	8.13	1.97	0.10	0.582	0.000	22,063		81.0	18.1	7.87	435	842	17,632	34,128		7.71	3.2	144	122	219	5,837	8,877		
06/21/2016	4.49	6.81	2.25	0.00	0.456	0.000	33,043		79.0	18.4	7.72	480	946	17,974	35,424		7.62	3.0	159	134	297	5,954	11,122		
06/22/2016	4.71	7.23	1.93	0.00	0.406	0.000	63,509		80.0	19.1	7.69	1035	1076	40,656	42,267		7.65	3.0	164	139	249	6,442	9,781		
06/23/2016	4.63	6.92	2.08	0.00	0.453	0.000	39,795		81.0	19.3	7.69	1050	1152	40,545	44,484		7.45	4.0	194	168	294	7,491	11,353		
06/24/2016	4.35	8.31	1.25	0.00	0.453	0.000	54,923		81.0	19.5	7.73	174	1030	6,313	37,367		7.04	25.0	744	640	336	26,992	12,190		
06/25/2016	4.25	6.93	1.70	0.00	0.444	0.000	8,266		79.0	18.7	7.72	179	1120	6,345	39,698		7.15	8.0	314	273	293	11,130	10,385		
06/26/2016	4.34	6.86	1.71	0.00	0.459	0.000	2,548		77.0	19.2	7.75	510	830	18,460	30,042		7.46	5.5	199	167	310	7,203	11,221		
06/27/2016	4.55	9.02	1.66	0.10	0.438	0.000	50,360		79.0	19.5	7.62	390	1270	14,799	48,193		7.42	3.5	218	179	233	8,272	8,842		
06/28/2016	4.67	7.98	1.67	0.05	0.415	0.000	64,889		66.0	19.8	7.73	660	1480	25,706	57,643		7.45	6.5	253	215	308	9,854	11,996		
06/29/2016	4.48	7.32	1.88	0.00	0.421	0.000	67,510		80.0	19.9	7.67	915	1722	34,187	64,339		7.33	9.5	367	311	375	13,712	14,011		
06/30/2016	4.37	6.96	1.56	0.00	0.443	0.000	30,408		81.0	20.0	7.85	690	1608	25,148	58,605		7.61	8.0	262	226	258	9,549	9,403		
MMAVG	6.83																								
Min.	4.3	6.8	1.3	0.0		0.000	2,548		58.0	16.4	6.70	153	580	6,313	24,514		6.68	2.7	144	121	174	5837	6719		
Max.	7.9	27.5	3.0	0.8		0.233	67,510		81.0	20.0	7.87	1050	2342	40,656	101,177		7.76	53.0	1840	1489	444	79490	18274		
Total	150.1	289.2	65.0	1.1		0.233	917,988																		
Average	5.0	9.6	2.2	0.0		0.008	34,000		71.67	18.07	7.66	450	1014	18560	41834		7.46	10.8	337	278	277	14075	11510		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
06/01/2016	6.85	<0.10	7.4	5.8	3.7	329	164	0	19.6	6.8	3.3	<0.01	<0.01	<0.01							99.172	98.969	7.73	108.0	82.0	72.0	7.35	7.3	21.8	16.4					
06/02/2016	6.78	<0.14	10.4	17.8	4.6	531	235	0	18.9	6.3	2.8	<0.01	<0.01	<0.01							98.978	98.722	7.78	237.0	238.0	193.0	7.36	13.8	22.8	17.2					
06/03/2016	6.87	<0.10	11.8	8.2	5.1	510	220	0	18.4	6.3	3.1	<0.01	<0.01	<0.01							98.333	99.496	7.69	219.0	914.0	746.0	7.40	10.7	33.0	26.8					
06/04/2016	6.90	<0.10	11.0	9.0	3.5	407	130	1	18.5	6.2	3.2	<0.01	<0.01	<0.01							98.542	98.338	6.70	171.0	466.0	375.0	7.32	7.7	26.8	19.2					
06/05/2016	6.88	<0.10	22.4	17.8	13.1	1,470	860	0	19.8	6.3	3.6	<0.01	<0.01	<0.01		0.42	28	0.58	38		96.589	97.676	7.67	100.0	147.0	104.0	7.47	11.1	22.2	17.2					
06/06/2016	6.95	0.10	13.4	9.8	5.1	654	249	1	19.7	6.2	3.5	<0.01	<0.01	<0.01		0.30	15	0.20	10		98.689	97.781	7.69	99.0	104.0	83.0	7.42	6.9	19.8	13.8					
06/07/2016	7.00	<0.10	16.2	14.8	4.8	753	223	3	20.1	6.5	2.5	<0.01	<0.01	<0.01		0.37	17	0.18	8		98.720	98.129	7.68	96.0	97.0	77.0	7.41	7.0	18.6	15.4					
06/08/2016	6.82	<0.10	12.4	11.0	5.3	570	244	5	19.9	6.6	3.5	<0.01	<0.01	<0.01							98.710	98.218	7.77	111.0	81.0	71.0	7.43	7.6	22.6	18.2					
06/09/2016	6.96	<0.10	10.2	5.4	5.3	459	239	5	19.2	6.6	3.2	<0.01	<0.01	<0.01							98.756	98.811	7.71	111.0	132.0	107.0	7.31	13.4	35.4	27.0	40.00	<50.00	<0.50	31.00	<0.31
06/10/2016	6.82	0.10	7.0	6.8	5.9	305	257	0	19.2	7.1	4.9	<0.01	<0.01	<0.01							96.911	98.856	7.75	89.0	94.0	55.0	7.40	8.3	29.0	23.6					
06/11/2016	6.92	<0.10	6.8	5.6	3.0	292	129	0	19.0	7.5	4.5	<0.01	<0.01	<0.01							98.039	99.009	7.47	159.0	108.0	86.0	7.22	7.2	27.6	21.6					
06/12/2016	6.74	0.00	7.8	6.0	2.0	330	85	0	18.9	7.0	2.9	<0.01	<0.01	<0.01		0.68	29	0.16	7		99.429	98.655	7.44	73.0	68.0	52.0	7.17	8.3	27.8	19.4					
06/13/2016	6.56	0.10	8.6	5.0	3.2	380	141	3	18.9	6.9	3.8	<0.01	<0.01	<0.01		0.72	32	0.14	6		99.111	98.900	7.66	105.0	94.0	75.0	7.07	7.4	22.8	18.0					
06/14/2016	6.72	<0.10	7.8	5.2	3.3	318	135	4	19.5	7.0	2.8	<0.01	<0.01	<0.01		0.73	30	0.17	7		99.290	99.317	7.51	114.0	122.0	97.0	7.16	6.3	20.6	17.0					
06/15/2016	6.53	<0.10	9.0	5.2	3.6	366	147	1	20.1	7.1	2.7	<0.01	<0.01	<0.01							99.250	99.256	7.62	114.0	122.0	80.0	7.09	8.0	23.0	16.2					
06/16/2016	6.76	<0.10	7.6	4.8	3.8	300	150	7	20.4	6.9	2.9	<0.01	<0.01	<0.01							99.156	99.283	7.77	114.0	133.0	106.0	7.28	13.1	28.0	22.0					
06/17/2016	7.02	0.10	16.2		5.0	642	198	3	20.7	7.0	4.3	<0.01	<0.01	<0.01							99.000	98.849	7.46	132.0	159.0		7.44	16.5	34.8						
06/18/2016	7.03	0.10	15.8		3.7	610	143	2	19.8	6.6	2.5	<0.01	<0.01	<0.01							98.549	97.635	7.43	114.0	146.0		7.45	9.3	38.4						
06/19/2016	7.00	0.10	11.0	8.4	5.2	411	194	11	19.9	6.7	2.2	<0.01	<0.01	<0.01		0.80	30	0.19	7		98.493	98.397	7.71	120.0	125.0	98.0	7.60	9.7	30.0	23.2					
06/20/2016	7.08	0.10	11.4	9.2	4.6	462	186	3	21.3	6.9	3.3	<0.01	<0.01	<0.01		0.92	37	0.21	9		98.943	98.646	7.72	102.0	104.0	81.0	7.37	6.9	30.0	23.6					
06/21/2016	6.90	<0.10	14.6	10.6	5.6	547	210	200	21.6	6.7	3.3	<0.01	<0.01	<0.01		1.10	41	0.44	16		98.833	98.457	7.70	129.0	123.0	85.0	7.29	9.2	35.2	27.4					
06/22/2016	6.83	0.10	12.2	10.0	4.3	479	169	6	21.0	6.6	3.8	<0.01	<0.01	<0.01							99.585	98.866	7.60	123.0	112.0	95.0	7.26	12.3	39.8	30.2				38.00	
06/23/2016	6.84	0.50	9.6	8.2	4.5	371	174	3	21.0	6.8	4.2	<0.01	<0.01	<0.01							99.571	99.167	7.51	144.0	125.0	100.0	7.30	13.5	42.2	32.0					
06/24/2016	6.93	0.10	10.2	9.0	5.4	370	196	1	21.3	5.8	3.1	<0.01	<0.01	<0.01							96.897	99.010	7.40	222.0	261.0	223.0	7.28	14.9	45.6	35.0					
06/25/2016	6.86	0.00	9.2	7.4	3.6	326	128	0	20.7	5.6	2.3	<0.01	<0.01	<0.01							97.989	99.179	7.40	108.0	196.0	170.0	7.26	13.7	43.2	33.0					
06/26/2016	6.79	0.00	10.2	6.0	4.5	369	163	0	20.9	5.3	1.7	<0.01	<0.01	<0.01		0.83	30	0.24	9		99.118	98.771	7.65	129.0	123.0	96.0	7.43	9.3	42.6	29.6					
06/27/2016	6.70	0.10	11.4	7.0	2.9	433	110	3	22.4	6.7	3.4	<0.01	<0.01	<0.01		0.87	33	0.19	7		99.256	99.102	7.65	105.0	138.0	111.0	7.11	10.4	41.2	30.2					
06/28/2016	6.59	0.10	8.6	7.0	6.2	335	241	2	22.2	6.8	3.6	<0.01	<0.01	<0.01		0.91	35	0.19	7		99.061	99.419					7.18	8.0	44.2	33.8					
06/29/2016	6.67	<0.10	7.0	5.6	3.8	262	142	4	22.5	6.5	2.7	<0.01	<0.01	<0.01							99.585	99.593	7.76	135.0	162.0	133.0	7.41	9.3	42.2	30.2					
06/30/2016	6.95	0.10	9.0	6.4	4.7	328	171	5	22.9	6.4	2.8	<0.01	<0.01	<0.01							99.319	99.440	7.77	117.0	111.0	94.0	7.48	8.8	43.0	31.2					
MMAVG													MMAVG		0.46																					
Min.	6.5	0.00	7	5	2	262	85	0	18.4	5.3	2			<0.01		0.30	15	0.14	6		96.59	97.63	6.7	73.0	68.0	52.0	7.1	6.3	18.6	13.8	40.0	<50	<0.50	31.0	<0.31
Max.	7.1	0.50	22	18	13	1470	860	200	22.9	7.5	5			<0.01		1.10	41	0.58	38		99.58	99.59	7.8	237.0	914.0	746.0	7.6	16.5	45.6	35.0	40.0	<50	<0.50	38.0	<0.31
Total																																				
Average	6.8	<0.10	11	8	5	464	201	2	20.3	6.6	3			<0.01		0.72	30	0.24	11		98.73	98.80	7.6	127.6	168.5	135.7	7.3	9.9	31.8	23.9	40.0	<50	<0.50	34.5	<0.31

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
06/01/2016	5,200	8,370	3,990	6,420	7,420	7,670	5.18	0.57	2,476,800	2,865,600	36,321	58,462					48	49	6,880	4,660	5,300	3,640	9,970	9,100	6.90	5.90	2,520,000	2,044,800	71,007	48,095					44	56
06/02/2016	4,940	8,170	3,960	6,400	6,520	12,310	6.43	4.52	2,534,400	2,851,200	34,505	57,065	316	3,668	461	4,652	49	55	6,180	4,440	4,870	3,570	9,780	8,570	6.53	7.35	2,563,200	2,073,600	63,782	45,824	3,273	36,302	3,120	35,472	49	59
06/03/2016		8,080		6,220		7,700	7.91	5.03		2,894,400		56,437						52	6,820	4,720	5,340	3,830	10,140	8,790	5.80	6.16	2,563,200	2,203,200	86,694	48,714	3,324	36,261	2,996	35,711	47	59
06/04/2016							7.68	6.47											8,090	7,090	5,810	5,450	10,930	11,910	4.41	4.67	2,390,400	2,102,400	83,495	73,174	6,546	77,400	6,228	84,955	41	48
06/05/2016	5,420	3,960	4,280	3,200	6,120	5,070	6.70	5.30	2,793,600	2,865,600	37,857	27,660					46	51	7,640	6,630	5,810	5,180	9,790	10,670	1.36	4.60	2,462,400	2,001,600	78,851	68,427	6,088	70,462	6,500	69,028	47	53
06/06/2016	5,640	4,520	4,450	3,560	7,590	5,510	5.90	5.90	2,692,800	2,808,000	39,394	31,571	1,439	13,860	1,440	13,690	50	51	7,170	5,770	6,220	3,930	11,880	11,540	5.20	5.60	2,433,600	1,987,200	74,000	59,551	3,028	35,219	2,643	35,946	45	52
06/07/2016	5,880	5,060	4,530	3,950	7,380	6,650	6.54	5.43	2,419,200	2,779,200	41,070	35,343	3,357	46,499	3,399	47,111	54	59	6,950	5,630	5,380	4,410	11,060	10,540	5.47	6.27	2,448,000	2,088,000	71,729	58,106	1,242	11,705	1,188	11,708	50	59
06/08/2016	6,320	5,060	5,030	4,030	5,270	6,600	6.90	5.40	2,520,000	2,808,000	44,144	35,343	1,282	23,960	1,420	23,904	43	49	6,530	5,200	5,180	4,200	10,950	9,570	5.80	6.80	2,376,000	2,073,600	67,394	53,668	2,598	24,486	2,483	24,461	46	58
06/09/2016	5,400	5,310	4,270	4,160	7,310	7,560	7.20	5.10	2,548,800	2,908,800	37,718	37,089					46	51	6,690	5,090	5,230	4,060	10,720	10,280	6.20	7.10	2,390,400	2,030,400	69,046	52,533					48	59
06/10/2016	5,110	6,460	3,960	5,150	7,060	10,250	7.55	4.59	2,692,800	2,851,200	35,692	45,121					27	48	7,360	5,520	5,740	4,390	11,010	10,810	6.35	7.34	2,750,400	2,174,400	75,961	56,971					41	54
06/11/2016	4,910	7,120	3,800	5,650	7,120	11,310	7.30	3.41	2,721,600	2,764,800	34,295	49,731					47	53	6,820	5,160	5,300	4,570	10,550	10,650	6.18	7.03	2,390,400	2,102,400	70,388	53,255	2,207	24,222	2,253	23,967	53	60
06/12/2016	3,940	8,140	3,100	6,370	4,500	11,920	8.44	6.54	1,382,400	2,534,400	27,520	56,856			3,232	33,505	51	55	6,720	5,790	5,150	4,490	10,080	10,290	6.30	6.93	2,448,000	2,073,600	69,355	59,757			2,069	23,693	51	52
06/13/2016	3,430	8,700	2,710	6,750	3,610	12,640	8.94	7.16	1,497,600	2,520,000	23,958	60,767			6,268	61,785	41	46	7,050	5,890	5,370	4,640	10,160	10,440	6.62	7.41	2,491,200	2,016,000	72,761	60,789					45	48
06/14/2016	4,140	8,230	3,190	6,230	5,270	12,190	7.46	4.72	1,627,200	2,462,400	28,917	57,484			4,449	45,629	41	46	7,740	6,270	5,820	4,800	10,950	9,790	7.39	6.57	2,419,200	2,001,600	79,883	64,711	2,319	24,227	2,168	24,286	39	48
06/15/2016	3,830	8,260	3,100	6,360	8,500	9,760	7.52	4.63	1,814,400	2,476,800	26,752	57,694					52	45	6,740	5,520	5,120	4,280	10,400	9,810	6.57	7.31	2,448,000	1,972,800	69,562	56,971	2,409	24,072	2,301	23,747	49	54
06/16/2016	4,540	9,180	3,520	7,030	7,020	11,220	4.48	3.50	1,670,400	2,491,200	31,711	64,120	2,349	35,625	3,263	35,964	46	40	7,510	6,180	5,670	4,740	10,630	10,270	6.89	5.66	2,404,800	2,059,200	77,509	63,782	2,177	23,543	2,223	24,095	43	45
06/17/2016	4,640	8,310	3,460	6,190	15,360	11,520	5.91	4.84	1,886,400	2,635,200	32,409	58,043	3,559	35,095	3,314	36,027	52	48	6,680	5,480	4,900	4,080	9,530	9,500	5.91	4.84	2,520,000	2,088,000	68,943	56,558					52	55
06/18/2016	4,430	7,920	3,570	5,920	6,520	10,750	4.83	4.49	1,742,400	2,577,600	30,942	55,319					54	48	6,650	5,490	4,940	4,230	9,240	10,310	5.73	7.10	2,491,200	2,102,400	68,633	56,661					45	62
06/19/2016	4,730	8,220	3,680	6,120	4,950	10,770	5.35	5.12	1,771,200	2,548,800	33,038	57,415			2,178	24,250	51	46	7,260	5,990	5,390	4,530	9,480	10,680	6.00	7.21	2,592,000	2,116,800	74,929	61,821			2,148	24,115	48	52
06/20/2016	5,250	8,360	4,200	6,380	5,310	10,600	5.20	4.84	1,785,600	2,548,800	36,670	58,393	1,720	24,014	2,336	24,265	48	48	6,920	5,800	5,220	4,510	9,860	10,300	7.05	6.00	2,592,000	2,088,000	71,420	59,860					51	52
06/21/2016	5,220	8,650	4,110	6,520	9,310	12,560	4.73	4.56	1,857,600	2,520,000	36,460	60,418					38	43	7,110	6,130	5,220	4,620	9,360	10,370	6.53	5.28	2,275,200	1,944,000	73,381	63,266	6,942	49,725	5,536	49,725	49	51
06/22/2016	5,450	8,000	4,380	6,070	8,780	12,310	5.31	5.07	1,872,000	2,577,600	38,067	55,878					50	45	6,540	5,430	4,910	4,130	9,150	10,070	7.05	6.18	2,304,000	1,828,800	67,498	56,042	8,649	69,592	7,970	69,996	46	52
06/23/2016	6,280	8,520	5,080	6,820	10,970	10,000	4.68	4.90	1,944,000	2,635,200	43,864	59,510	4,208	49,084	4,491	50,089	45	40	6,770	5,300	5,070	4,070	8,690	9,730	7.25	6.53	2,304,000	1,900,800	69,871	54,700	3,876	34,860	3,787	34,888	46	47
06/24/2016	6,150	8,030	4,850	6,180	7,230	11,130	3.24	4.55	1,713,600	2,592,000	42,956	56,088	4,062	50,791	5,613	59,407	46	45	6,390	4,810	4,810	3,750	8,480	9,410	6.73	6.39	2,318,400	1,857,600	65,950	49,643	2,246	26,479	3,131	35,010	42	48
06/25/2016	6,510	8,150	5,080	6,100	9,640	10,030	4.23	4.48	1,800,000	2,649,600	45,471	56,926			2,509	27,975	46	43	6,630	4,910	4,890	3,660	7,970	9,930	5.97	6.68	2,347,200	1,843,200	68,427	50,675			2,461	28,063	47	49
06/26/2016	6,630	8,010	5,130	6,000	8,790	10,170	6.57	5.00	1,915,200	2,606,400	46,309	55,948			4,475	53,125	48	42	6,160	5,100	4,630	3,910	8,810	9,420	6.42	5.97	2,347,200	1,756,800	63,576	52,636			4,198	52,032	49	49
06/27/2016	6,610	7,410	5,140	5,640	10,800	8,970	6.33	5.03	1,944,000	2,592,000	46,169	51,757	4,477	50,308	26,067	72,699	35	41	4,760	6,370	3,700	4,770	9,320	9,070	6.26	5.94	2,289,600	1,828,800	49,127	65,743	1,670	15,865	3,238	38,045	84	52
06/28/2016	6,470	7,290	5,030	5,560	12,260	9,900	4.13	5.44	1,958,400	2,592,000	45,191	50,919	5,254	50,622	4,719	50,137	34	38	6,050	4,460	4,600	3,410	9,240	10,440	6.21	5.98	2,275,200	1,800,000	62,441	46,031	3,202	34,497	3,146	34,480	51	74
06/29/2016	7,030	7,260	5,680	5,540	6,830	10,090	4.57	5.12	1,800,000	2,548,800	49,103	50,709	3,823	49,318	3,331	50,488	31	41	6,770	4,620	5,280	3,650	9,320	9,680	6.12	6.10	2,044,800	1,526,400	69,871	47,682	2,862	37,010	3,051	36,081	44	69
06/30/2016	6,750	7,040	5,260	5,340	6,200	10,740	4.36	4.90	1,569,600	2,304,000	47,147	49,173	3,498	35,907	3,366	37,178	34	44	6,460	4,440	4,930	3,490	9,540	8,710	6.29	5.87	1,972,800	1,526,400	66,672	45,824	1,691	21,855	1,752	21,700	50	74
MMAVG																																				
Min.	3,430	3,960	2,710	3,200	3,610	5,070	3	1	1,382,400	2,304,000	23,958	27,660	316	3,668	461	4,652	27	38	4,760	4,440	3,700	3,410	7,970	8,570	1	5	1,972,800	1,526,400	49,127	45,824	1,242	11,705	1,188	11,708	39	45
Max.	7,030	9,180	5,680	7,030	15,360	12,640	9	7	2,793,600	2,908,800	49,103	64,120	5,254	50,791	26,067	72,699	54	59	8,090	7,090	6,220	5,450	11,880	11,910	7	7	2,750,400	2,203,200	83,495	73,174	8,649	77,400	7,970	84,955	84	74
Total									56,952,000	76,809,600	1,053,650	1,507,239	39,344	468,751	86,331	751,880											72,172,800	59,212,800	2,105,850	1,691,470	66,349	677,782	76,590	841,204		
Average	5,388	7,441	4,234	5,719	7,630	9,928	6	5	2,034,000	2,648,607	37,630	51,974	3,026	36,058	4,544	39,573	45	47	6,801	5,463	5,193	4,233	9,900	10,022	6	6	2,405,760	1,973,760	70,195	56,382	3,492	35,673	3,330	36,574	48	55

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
07/01/2016	4.64	7.88	1.50	0.25	0.470	0.000	36,983		82.0	20.1	7.85	990	1406	38,311	54,409		7.42	10.0	327	268	390	12,654	15,092		
07/02/2016	4.17	7.64	1.47	0.00	0.371	0.000	4,291		68.0	19.7	7.46	675	1016	23,475	35,334		6.99	11.0	386	322	350	13,424	12,172		
07/03/2016	3.99	6.72	1.44	0.00	0.390	0.000			65.0	19.4	7.99	735	898	24,458	29,882		7.61	11.0	332	294	368	11,048	12,246		
07/04/2016	3.94	6.84	1.47	0.00	0.401	0.000			65.0	19.6	7.95	990	888	32,531	29,179		7.71	14.0	316	270	317	10,384	10,416		
07/05/2016	4.31	10.24	1.56	0.00	0.408	0.000	15,556		81.0	20.3	7.72	990	1010	35,586	36,305		7.61	15.0	439	368	450	15,780	16,175		
07/06/2016	4.27	7.49	1.60	0.00	0.406	0.000	35,645		90.0	20.2	7.77	825	1094	29,380	38,959		7.70	7.0	271	225	285	9,651	10,149		
07/07/2016	4.40	8.99	1.87	0.10	0.381	0.000	30,386		83.0	20.5	7.68	1005	1540	36,879	56,512		7.59	10.0	297	253	365	10,899	13,394		
07/08/2016	4.76	8.99	1.77	0.00	0.399	0.000	28,845		69.0	20.9	7.70	279	1414	11,076	56,134		7.65	25.0	150	117	162	5,955	6,431		
07/09/2016	5.13	18.89	1.51	0.50	0.396	0.000	10,066		68.0	20.0	6.70	246	1446	10,525	61,866		7.45	11.0	282	326	222	12,065	9,498		
07/10/2016	4.66	10.13	1.77	0.10	0.352	0.000	9,419		68.0	20.1	7.89	698	2166	27,127	84,180		7.61	7.5	301	241	217	11,698	8,434		
07/11/2016	4.50	10.15	1.66	0.00	0.380	0.000	49,751		70.0	20.2	7.76	825	1392	30,962	52,242		7.47	4.0	183	142	251	6,868	9,420		
07/12/2016	4.57	7.33	1.64	0.00	0.396	0.000	27,341		82.0	20.8	7.58	660	1962	25,155	74,779		7.24	15.0	461	373	312	17,570	11,892		
07/13/2016	4.47	7.59	1.67	0.00	0.366	0.000	42,388		85.0	20.5	7.36	900	2928	33,552	109,155		7.14	15.0	466	375	350	17,372	13,048		
07/14/2016	5.62	28.36	1.80	0.30	0.374	0.174	22,718		82.0	20.9	7.65	548	1436	25,685	67,306		7.43	10.5	430	348	383	20,154	17,952		
07/15/2016	4.70	9.63	1.61	0.00	0.361	0.000	39,499		88.0	20.8	7.70	353	776	13,837	30,418		7.45	10.0	281	207	162	11,015	6,350		
07/16/2016	4.38	7.64	1.51	0.00	0.363	0.000	8,431		80.0	20.5	7.73	630	762	23,013	27,835										
07/17/2016	4.16	7.24	1.56	0.00	0.381	0.000			71.0	20.9	7.70	525	1120	18,215	38,858		7.50	5.0	197	157	269	6,835	9,333		
07/18/2016	4.74	8.26	1.67	0.00	0.425	0.000	9,676		86.0	21.0	7.86	585	930	23,126	36,764		7.58	3.5	160	134	294	6,325	11,622		
07/19/2016	4.40	10.05	1.81	0.00	0.409	0.000	35,068		79.0	21.0	7.82	705	1552	25,871	56,952		7.39	60.0	1538	1176	690	56,438	25,320		
07/20/2016	4.31	7.35	1.71	0.00	0.438	0.000	21,729		78.0	20.9	7.71	1095	1540	39,360	55,356		7.35	3.0	217	161	320	7,800	11,503		
07/21/2016	4.41	8.18	1.56	0.00	0.366	0.000	36,277		86.0	21.5	7.65	990	1362	36,412	50,094		7.48	3.0	197	162	242	7,246	8,901		
07/22/2016	4.10	7.08	1.56	0.00	0.404	0.000	27,114		93.0	21.7	7.64	825	1290	28,210	44,110		7.18	7.0	289		302	9,882	10,327		
07/23/2016	4.02	7.62	1.40	0.00	0.400	0.000	15,946		72.0	21.4	7.58	750	1104	25,145	37,014		7.35	4.0	207		210	6,940	7,041		
07/24/2016	4.04	7.33	1.40	0.00	0.414	0.000			71.0	20.8	7.70	555	502	18,700	16,914		7.47	2.0	147	121	225	4,953	7,581		
07/25/2016	4.43	7.70	1.44	0.00	0.411	0.000	21,028		94.0	21.9	7.80	795	1252	29,372	46,257		7.58	7.0	323	265	315	11,934	11,638		
07/26/2016	4.21	7.72	1.56	0.00	0.405	0.000	52,406		90.0		7.63	1005	1418	35,287	49,788		7.35	25.0	662	532	690	23,244	24,227		
07/27/2016	4.27	7.03	2.06	0.00	1.136	0.000	28,116		92.0	22.5	7.81	795	834	28,311	29,700		7.56	7.0	277	231	311	9,864	11,075		
07/28/2016	4.47	7.50	1.61	0.20	0.471	0.000	31,763		93.0	22.4	7.65	720	2104	26,841	78,437		7.48	5.0	234	186	294	8,723	10,960		
07/29/2016	4.72	15.55	3.84	0.20	0.798	0.000	19,007		82.0	22.6	7.60	462	1404	18,187	55,268		7.72		176		164	6,928	6,456		
07/30/2016	4.06	7.40	1.71	0.20	0.383	0.000			82.0	22.0	7.83	189	886	6,400	30,000										
07/31/2016	5.05	13.88	1.69	0.15	0.366	0.000			68.0	22.1	7.77	390	994	16,426	41,864		7.62	5.5	256	208	228	10,782	9,603		
MMAVG	6.63																								
Min.	3.9	6.7	1.4	0.0		0.000	4,291		65.0	19.4	6.70	189	502	6,400	16,914		6.99	2.0	147	117	162	4953	6350		
Max.	5.6	28.4	3.8	0.5		0.174	52,406		94.0	22.6	7.99	1095	2928	39,360	109,155		7.72	60.0	1538	1176	690	56438	25320		
Total	137.9	294.4	52.4	2.0		0.174	659,449																		
Average	4.4	9.5	1.7	0.1		0.006	26,378		79.45	20.91	7.69	701	1304	25723	48770		7.47	11.2	338	287	315	12567	11664		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
07/01/2016	7.05	0.20	9.8	6.4	2.9	379	112	25	22.9	5.2	2.5	<0.01	<0.01	<0.01							99.707	99.303	7.62	114.0	127.0	92.0	7.97	5.9	22.2	12.8					
07/02/2016	6.90	0.01	8.0	6.2	3.4	278	118	1	22.0	6.0	2.0	<0.01	<0.01	<0.01							99.496	99.213	7.04	111.0	142.0	106.0	7.44	7.3	23.0	15.2					
07/03/2016	6.49	0.05	4.6	6.2	3.2	153	106	1	21.7	5.6	2.4	<0.01	<0.01	<0.01							99.565	99.488	7.64	96.0	104.0	101.0	8.06	5.8	20.0	16.0					
07/04/2016	6.91	<0.01	7.0	5.6	3.6	230	118	0	21.8	5.7	2.1	<0.01	<0.01	<0.01	0.88	29	0.17	6			99.636	99.212	7.50	58.0	96.0	80.0	7.50	8.0	28.8	23.6					
07/05/2016	6.94	0.20	9.2	8.4	6.9	331	248	0	22.8	6.1	2.1	<0.01	<0.01	<0.01	0.93	33	0.16	6			99.303	99.089	7.68	168.0	183.0	151.0	7.30	8.4	28.8	23.0					
07/06/2016	6.87	0.20	9.6	8.4	4.2	342	150	0	23.5	6.4	1.9	<0.01	<0.01	<0.01	0.93	33	0.24	9			99.491	99.122	7.63	99.0	105.0	90.0	7.32	11.9	25.2	20.6					
07/07/2016	6.91	0.10	9.6	8.6	4.7	352	172	2	23.1	6.3	2.0	<0.01	<0.01	<0.01							99.532	99.377	7.71	80.0	105.0	88.0	7.31	9.7	31.4	25.0					
07/08/2016	6.98	0.20	15.2	11.4	3.4	603	135	3	22.9	6.4	2.7	<0.01	<0.01	<0.01							98.781	98.925	7.70	84.0	693.0	464.0	7.40	11.6	46.6	37.0					
07/09/2016	6.90	<0.10	18.6	14.6	2.6	796	111	19	22.0	6.6	2.8	<0.01	<0.01	<0.01							98.943	98.714	7.70	66.0	135.0	108.0	7.46	8.7	43.0	33.4					
07/10/2016	6.91	<0.10	11.6	7.2	5.5	451	214	3	22.3	6.5	3.8	<0.01	<0.01	<0.01	0.56	22	0.24	9			99.212	99.464	7.79	87.0	111.0	83.0	7.62	6.7	34.4	24.8					
07/11/2016	7.16	0.20	10.8	7.2	6.7	405	251	7	22.2	6.8	4.8	<0.01	<0.01	<0.01	0.52	20	0.16	6			99.188	99.224	7.61	83.0	97.0	77.0	7.43	6.3	26.4	18.2					
07/12/2016	6.98	0.40	9.8	6.2	3.9	374	149	2	22.8	6.5	4.5	<0.01	<0.01	<0.01	0.47	18	0.15	6			99.409	99.501	7.51	87.0	128.0	99.0	7.35	6.2	32.2	22.2					
07/13/2016	6.90	0.30	10.2	6.6	4.4	380	164	6	23.5	6.5	3.5	<0.01	<0.01	<0.01							99.511	99.652	7.48	93.0	122.0	104.0	7.29	6.4	37.0	25.4					
07/14/2016	6.91	0.30	22.2	18.2	16.5	1,041	773	3	23.5	6.5	3.6	<0.01	<0.01	<0.01							96.989	98.454	7.69	84.0	127.0	111.0	7.38	8.6	34.2	22.6					
07/15/2016	6.94	0.30	12.2	9.2	2.8	478	110	15	24.0	6.3	5.1	<0.01	<0.01	<0.01							99.207	98.428	7.71	71.0	105.0	72.0	7.36	6.9	43.6	29.0					
07/16/2016	6.88	0.20	12.8		4.1	468	150	0	23.7	6.4	5.0	<0.01	<0.01	<0.01							99.349	98.320	7.45	65.4	89.0		7.44	6.9	50.2						
07/17/2016	7.11	0.10	12.4	9.6	4.7	430	163	1	23.7	6.3	2.4	<0.01	<0.01	<0.01	0.52	18	0.13	5			99.105	98.893	7.66	65.7	71.0	61.0	7.49	7.2	49.8	37.0					
07/18/2016	7.04	<0.10	10.4	8.6	4.2	411	166	8	24.5	6.9	2.6	<0.01	<0.01	<0.01	0.66	26	0.14	6			99.282	98.882	7.69	73.8	84.0	66.0	7.42	7.4	46.6	35.0					
07/19/2016	7.05	0.10	12.4	10.2	5.7	455	209	8	24.0	6.2	2.8	<0.01	<0.01	<0.01	0.74	27	0.16	6			99.191	99.201	7.93	219.0	443.0	344.0	7.49	6.1	27.6	17.8					
07/20/2016	7.09	<0.10	8.4	6.2	3.4	302	122	7	23.9	7.0	2.6	<0.01	<0.01	<0.01							99.689	99.455	7.55	18.3	46.6	35.8	7.55	5.9	28.0	20.6	62.00	<50.00	<0.50	29.00	<0.20
07/21/2016	7.05	<0.10	7.0	6.2	3.8	257	140	3	23.1	5.8	1.5	<0.01	<0.01	<0.01							99.616	99.486	7.59	4.8	12.2	10.2	7.49	5.6	25.0	20.0					
07/22/2016	7.06	<0.10	9.2		4.0	315	137	1	23.6	5.4	2.3	<0.01	<0.01	<0.01							99.515	99.287	7.53	5.3	12.4		7.42	6.1	23.8						
07/23/2016	7.05	0.10	8.6		3.1	288	104	1	23.7	6.4	1.8	<0.01	<0.01	<0.01							99.587	99.221	7.45	2.9	11.2		7.32	5.7	24.8						
07/24/2016	6.89	0.10	7.6	6.2	3.0	256	101	0	23.4	6.5	2.1	<0.01	<0.01	<0.01	1.01	34	0.14	5			99.459	98.486	7.34	2.4	9.8	7.2	7.11	4.1	21.8	15.8					
07/25/2016	6.70	<0.10	6.4	6.2	4.2	236	155	3	23.6	5.6	1.9	<0.01	<0.01	<0.01	1.04	38	0.17	6			99.472	99.489	7.33	3.3	8.0	6.6	7.02	4.3	22.6	17.4					
07/26/2016	6.78	<0.10	8.0	5.8	3.3	281	116	0	24.1	6.7	2.0	<0.01	<0.01	<0.01	0.99	35	0.16	6			99.672	99.436	7.43	4.3	11.2	8.4	7.03	6.4	20.0	15.0					
07/27/2016	6.91	<0.10	6.4	5.8	4.2	228	150	0	24.2	6.0	2.4	<0.01	<0.01	<0.01							99.472	99.233	7.50	4.3	10.2	8.2	7.15	3.9	19.4	14.0					
07/28/2016	7.02	<0.10	7.2	5.6	3.6	268	134	1	24.4	5.5	2.3	<0.01	<0.01	<0.01							99.500	99.658	7.45	4.2	9.0	6.8	7.16	3.9	16.8	11.2					
07/29/2016	7.04	<0.10	9.4		3.3	370	130	3	24.6	6.6	2.4	<0.01	<0.01	<0.01							99.286	99.330	7.48	3.5	36.0		7.15	2.9	16.6						
07/30/2016	7.02	0.00	8.0		2.7	271	91	4	24.3	5.5	1.7	<0.01	<0.01	<0.01							98.571	99.097	7.53	3.5	21.0		7.35	2.6	9.4						
07/31/2016	7.00	0.00	11.8	7.8	2.0	497	84	1	24.3	6.6	2.2	<0.01	<0.01	<0.01	0.83	35	0.19	8			99.487	98.813	7.51	2.7	11.2	8.4	7.36	2.2	12.2	9.4					
MMAVG													MMAVG	0.50																					
Min.	6.5	0.00	5	6	2	153	84	0	21.7	5.2	2			<0.01	0.47	18	0.13	5			96.99	98.32	7.0	2.4	8.0	6.6	7.0	2.2	9.4	9.4	62.0	<50	<0.50	29.0	<0.20
Max.	7.2	0.40	22	18	17	1041	773	25	24.6	7.0	5			<0.01	1.04	38	0.24	9			99.71	99.66	7.9	219.0	693.0	464.0	8.1	11.9	50.2	37.0	62.0	<50	<0.50	29.0	<0.20
Total																																			
Average	6.9	<0.13	10	8	4	385	164	2	23.4	6.2	3			<0.01	0.78	28	0.17	6			99.30	99.14	7.6	60.1	105.3	91.9	7.4	6.4	28.8	21.6	62.0	<50	<0.50	29.0	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION															
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
07/01/2016	6,100	7,780	4,770	5,940	7,690	10,920	5.05	4.58	1,699,200	2,260,800	42,607	54,341			6,707	71,615	48	37	6,210	4,570	4,630	3,550	9,380	8,530	6.05	6.40	2,073,600	1,411,200	64,092	47,166					48	50
07/02/2016	4,600	6,380	3,220	4,900	6,250	9,120	4.50	5.00	1,670,400	2,289,600	32,130	44,563			2,439	28,746	72	44	4,570	6,110	2,500	4,480	6,250	8,530	5.90	6.70	2,001,600	1,497,600	47,166	63,060					70	41
07/03/2016	6,420	7,410	5,090	5,610	7,530	9,270	5.00	5.30	1,598,400	2,289,600	44,842	51,757					47	43	6,630	5,070	5,020	3,920	9,130	8,700	6.30	6.80	2,030,400	1,411,200	86,694	52,326					48	49
07/04/2016	5,930	7,230	4,570	5,400	10,040	7,940	5.18	5.02	1,684,800	2,304,000	41,420	50,500					51	43	9,100	4,520	6,370	3,410	5,310	10,680	6.44	6.81	1,972,800	1,411,200	93,919	46,650					33	53
07/05/2016	5,240	7,960	4,080	6,030	9,800	9,100	5.41	4.56	1,828,800	2,246,400	36,600	55,599	3,230	37,714	3,558	36,606	50	45	6,330	5,010	4,810	3,890	9,700	9,580	6.30	6.53	1,972,800	1,440,000	65,330	51,707	1,413	13,720	1,479	13,920	49	52
07/06/2016	5,800	8,000	4,520	6,130	7,150	9,850	4.97	4.38	1,785,600	2,275,200	40,512	55,878	2,838	36,866	3,402	36,685	45	43	6,100	5,250	4,620	3,980	10,010	8,490	5.97	6.42	2,059,200	1,425,600	62,957	54,184	3,218	32,926	3,198	32,770	49	48
07/07/2016	5,980	8,300	4,700	6,360	7,480	9,250	4.71	4.45	3,297,600	3,326,400	41,769	57,973	2,547	35,098	3,314	37,090	45	43	6,040	4,790	4,600	3,720	9,420	7,760	5.85	6.56	2,606,400	2,289,600	62,337	49,436	3,112	36,347	2,815	35,722	46	48
07/08/2016	5,880	8,020	4,670	6,170	8,060	9,150	4.40	4.32	3,412,800	3,412,800	41,070	56,018	2,559	35,955	2,836	36,567	43	44	6,070	4,700	4,650	3,690	9,590	8,310	5.70	6.70	2,750,400	2,534,400	62,647	48,508	659	6,553	520	6,550	45	49
07/09/2016	6,310	7,950	4,980	6,250	6,310	10,020	5.02	4.40	3,283,200	3,369,600	44,074	55,529	2,128	40,440	3,379	40,440	40	44	6,110	4,820	4,510	3,640	9,100	6,760	6.18	6.96	2,678,400	2,220,480	63,060	49,746	2,612	29,617	2,007	29,583	59	46
07/10/2016	7,270	9,160	5,720	7,530	6,180	12,160	4.86	4.70	3,297,600	3,283,200	50,779	63,980	3,703	70,372	6,295	70,286	41	45	6,230	4,990	4,660	3,760	9,750	7,570	6.44	7.16	2,577,600	2,376,000	64,298	51,501					42	42
07/11/2016	6,100	8,500	4,780	6,390	7,990	8,540	5.30	5.20	3,240,000	3,268,800	42,607	59,370	3,919	69,380	6,448	70,350	46	47	6,280	4,560	4,740	3,490	9,200	7,730	6.50	7.20	2,707,200	2,419,200	64,814	47,063					40	46
07/12/2016	5,610	8,070	4,390	6,020	8,010	11,820	5.70	5.50	3,196,800	3,283,200	39,184	56,367	4,587	68,701	6,414	68,791	50	34	6,460	4,470	4,790	3,360	10,780	9,660	6.60	7.30	2,764,800	2,376,000	66,672	46,134					62	45
07/13/2016	5,800	7,670	4,490	5,750	5,960	8,920	5.40	5.40	3,456,000	3,355,200	40,512	53,573	4,449	72,597	5,676	72,597	43	40	5,300	4,540	4,020	3,370	9,420	7,590	6.30	7.10	2,664,000	2,318,400	54,700	46,856					49	44
07/14/2016	5,850	7,840	4,320	5,780	9,510	10,720	5.33	5.23	3,240,000	3,283,200	40,861	54,760	1,985	28,534	2,566	31,656	44	47	6,630	5,100	4,830	3,760	10,200	7,440	5.91	6.90	2,707,200	2,304,000	68,427	52,636	4,816	56,616	3,513	56,616	41	41
07/15/2016	6,900	8,580	5,170	6,400	9,710	8,770	2.71	4.94	3,225,600	3,326,400	48,195	59,929	3,275	40,440	3,263	40,440	49	46	6,620	4,910	4,900	3,710	9,580	7,340	6.60	5.64	2,678,400	2,390,400	68,323	50,675	3,634	44,058	2,674	43,383	41	43
07/16/2016	5,800	7,520	4,210	5,530	7,800	8,290	4.37	5.24	3,254,400	3,398,400	40,512	52,525	4,881	73,983	5,320	72,584	59	53	6,360	4,690	4,690	3,500	8,840	7,330	5.68	6.94	2,721,600	2,376,000	65,640	48,404					44	43
07/17/2016	6,410	7,650	4,830	5,730	9,060	8,960	6.56	5.55	3,225,600	3,384,000	44,772	53,433	5,343	72,954	5,412	73,608	48	46	6,960	4,860	4,960	3,510	9,820	7,020	7.08	5.74	2,736,000	2,404,800	71,832	50,159					39	41
07/18/2016	6,550	7,430	4,780	5,390	7,140	8,410	7.07	6.08	3,355,200	3,384,000	45,750	51,897	4,587	72,711	5,519	72,981	47	51	7,250	5,020	5,230	3,650	9,790	7,640	7.13	6.01	2,836,800	2,419,200	74,825	51,810					39	42
07/19/2016	6,620	7,830	4,980	5,740	8,950	12,180	4.95	6.15	2,894,400	3,412,800	46,239	54,691	2,123	31,637	2,960	31,564	45	43	7,500	5,330	5,420	3,890	10,000	7,440	7.00	6.00	2,851,200	2,203,200	77,406	55,010	3,451	42,597	3,712	56,551	37	39
07/20/2016	6,800	7,140	5,240	5,350	8,870	9,360	5.35	5.79	3,240,000	3,384,000	47,496	49,871	2,783	35,589	2,830	36,510	44	48	7,010	5,820	5,180	4,390	7,350	7,560	6.14	6.34	2,692,800	2,260,800	72,348	60,067	3,095	44,234	2,943	44,492	43	43
07/21/2016	6,540	7,490	4,810	4,390	7,690	9,260	5.39	5.69	3,254,400	3,427,200	45,680	52,316					44	40	6,850	6,750	5,030	4,900	7,540	8,920	6.47	6.20	2,563,200	2,419,200	70,697	69,665					35	37
07/22/2016	6,110	7,690	4,940	5,760	6,640	7,890	5.19	5.25	3,427,200	3,412,800	42,677	53,713					48	47	5,810	6,470	4,350	4,890	6,810	7,710	5.77	6.28	2,736,000	2,361,600	59,964	66,775					43	41
07/23/2016	6,100	7,780	4,880	6,060	7,350	8,580	5.23	5.11	3,268,800	3,384,000	42,607	54,341					44	51	5,770	6,700	4,520	5,200	7,420	7,520	6.13	5.60	2,808,000	2,376,000	59,551	69,149					45	46
07/24/2016	5,530	7,880	4,480	6,050	7,870	9,310	5.74	5.23	3,182,400	3,398,400	38,626	55,040			3,653	51,050	43	50	5,650	6,890	4,440	5,370	6,210	8,880	6.81	5.92	2,779,200	2,433,600	58,312	71,110					46	41
07/25/2016	5,790	7,930	4,850	6,320	6,560	9,100	5.83	5.62	2,620,800	3,355,200	40,442	55,389	1,105	14,405	2,913	34,986	43	50	5,640	7,520	4,570	6,020	6,380	9,430	6.05	7.20	2,822,400	2,260,800	58,209	77,612	2,504	36,023	3,035	36,140	46	44
07/26/2016	5,720	5,780	4,620	4,640	2,070	9,050	5.01	5.04	3,427,200	3,412,800	39,953	40,372	1,590	20,726	6,868	71,242	47	47	7,540	7,960	5,730	6,010	6,790	8,880	5.69	6.72	2,865,600	2,419,200	77,818	82,153			4,742	50,500	35	42
07/27/2016	6,780	7,500	5,530	5,880	7,700	7,670	4.43	4.97	3,528,000	3,427,200	47,357	52,386	5,197	50,598	3,410	38,257	41	49	5,800	7,210	4,680	5,650	7,200	7,430	5.88	6.51	2,880,000	2,361,600	59,860	74,413	3,928	50,504	3,392	36,588	47	47
07/28/2016	6,090	7,420	4,980	5,780	7,260	9,170	4.43	5.00	3,412,800	3,369,600	42,537	51,827	3,658	50,384	7,201	88,207	46	49	5,340	7,230	4,170	5,580	6,930	8,490	6.01	6.51	2,779,200	2,289,600	55,113	74,619	1,080	12,600	4,307	50,379	51	46
07/29/2016	6,280	7,210	4,710	5,710	6,850	8,550	3.72	4.88	3,470,400	3,369,600	43,864	50,360	1,758	30,084	2,191	30,463	43	49	5,670	6,890	4,530	5,330	6,830	8,490	6.45	6.07	2,736,000	2,246,400	58,519	71,110	2,566	35,970	3,160	37,913	48	46
07/30/2016	6,310	7,280	5,090	5,190	9,210	7,120	4.77	5.48	3,240,000	3,369,600	44,074	50,849	2,750	35,804	2,180	36,707	48	51	5,580	6,510	4,390	4,380	7,040	7,760	6.60	6.67	2,736,000	2,347,200	57,590	67,188	693	11,800	758	11,710	50	51
07/31/2016	5,940	6,720	4,360	4,750	7,510	8,480	5.01	5.59	2,923,200	3,398,400	41,489	46,938	2,775	36,125	2,168	36,517	51	60	5,700	6,560	4,090	4,720	6,760	7,240	6.68	7.00	2,678,400	2,376,000	58,828	67,704	566	10,040	600	9,940	49	50
MMAVG																																				
Min.	4,600	5,780	3,220	4,390	2,070	7,120	3	4	1,598,400	2,246,400	32,130	40,372	1,105	14,405	2,168	28,746	40	34	4,570	4,470	2,500	3,360	5,310	6,760	6	6	1,972,800	1,411,200	47,166	46,134	566	6,553	520	6,550	33	37
Max.	7,270	9,160	5,720	7,530	10,040	12,180	7	6	3,528,000	3,427,200	50,779	63,980	5,343	73,983	7,201	88,207	72	60	9,100	7,960	6,370	6,020	10,780	10,680	7	7	2,880,000	2,534,400	93,919	82,153	4,816	56,616	4,742	56,616	70	53
Total									91,641,600	97,862,400	1,321,237	1,656,085	73,770	1,061,097	108,922	1,316,545											80,467,200	67,380,480	2,013,681	1,814,596	37,347	463,605	42,855	552,757		
Average	6,102	7,648	4,734	5,772	7,619	9,256	5	5	2,956,181	3,156,852	42,621	53,422	3,207	46,135	4,189	50,636	47	46	6,294	5,672	4,698	4,281	8,340	8,142	6	7	2,595,716	2,173,564	64,957	58,535	2,490	30,907	2,678	34,547	46	45

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
08/01/2016	4.65	8.08	1.67	0.30	0.363	0.000	27,377		68.0	22.6	7.66	555	1228	21,523	47,623		7.51	5.5	269	216	302	10,432	11,712		
08/02/2016	6.26	20.81	1.71	0.10	0.351	0.038	23,414		58.0	22.2	7.71	315	922	16,446	48,136		7.42	5.5	235	182	246	12,269	12,843		
08/03/2016	4.61	7.20	1.61	0.00	0.343	0.000	27,457		79.0	22.4	7.74	416	876	15,994	33,680		7.43	13.0	484	382	407	18,609	15,648		
08/04/2016	6.09	10.00	1.88	0.00	0.260	0.000	31,300		80.0	22.4	7.44	570	1302	28,951	66,129		7.35	65.0	1298	992	555	65,926	28,189		
08/05/2016	4.32	7.92	1.66	0.00	0.301	0.000	35,113		80.0	22.3	7.62	179	1436	6,449	51,737		7.26	38.0	806		171	29,039	6,161		
08/06/2016	4.31	7.64	1.57	0.00	0.344	0.000	10,308		78.0	22.4	7.74	720	437	25,881	15,708		7.44	11.0	358	268	288	12,868	10,352		
08/07/2016	4.43	7.92	1.66	0.00	0.382	0.000	7,961		78.0	22.4	7.86	398	566	14,705	20,912		7.62	5.5	291	230	258	10,751	9,532		
08/08/2016	4.34	6.87	1.56	0.00	0.351	0.000	46,872		79.0	22.4	7.67	570	1250	20,631	45,245		7.64	5.5	267	203	297	9,664	10,750		
08/09/2016	4.26	9.05	1.51	0.00	0.308	0.000	34,187		81.0	22.2	7.66	510	1064	18,119	37,802		7.35	19.0	538	428	420	19,114	14,922		
08/10/2016	7.26	26.58	2.14	1.00	0.348	0.461	7,475		68.0	23.0	7.54	410	828	24,825	50,134		7.51	10.0	293	249	270	17,741	16,348		
08/11/2016	4.64	7.00	1.82	0.00	0.278	0.000	25,995		88.0	23.0	7.73	345	1056	13,351	40,865		7.58	7.5	195	153	228	7,546	8,823		
08/12/2016	5.12	13.19	1.93	0.40	0.323	0.000	53,669		90.0	22.8	7.70	375	1384	16,013	59,098		7.59	16.0	498	390	345	21,265	14,732		
08/13/2016	6.17	33.33	2.93	2.00	0.305	1.278	4,308		80.0	21.8	7.71	180	546	9,262	28,096		7.61	30.0	248	197	192	12,762	9,880		
08/14/2016	6.15	7.25	1.97	0.00	0.356	0.000	2,503		80.0	22.1	7.72	311	598	15,952	30,672		7.70	2.8	154	116	123	7,899	6,309		
08/15/2016	4.58	7.58	1.92	0.00	0.262	0.000	35,591		83.0	22.5	7.72	375	922	14,324	35,218		7.70	5.0	172	135	168	6,570	6,417		
08/16/2016	4.90	9.06	2.14	0.20	0.320	0.000	29,478		70.0	22.3	7.54	450	1140	18,390	46,587		7.58	2.7	157	123	234	6,416	9,563		
08/17/2016	4.75	8.37	2.20	0.00	0.352	0.000	45,737		80.0	22.8	7.67	585	1020	23,175	40,407		7.53	6.0	228	177	333	9,032	13,192		
08/18/2016	4.69	8.38	1.93	0.00	0.284	0.000	32,566		81.0	22.4	7.75	495	1018	19,362	39,819		7.61	10.5	347	278	282	13,573	11,030		
08/19/2016	5.07	7.85	1.77	0.00	0.333	0.000	31,258		79.0	22.6	7.61	870	1244	36,787	52,601		7.40	7.0	224		222	9,472	9,387		
08/20/2016	4.24	7.69	1.82	0.00	0.309	0.000	27,813		68.0	22.1	6.65	435	1008	15,382	35,644		7.42	4.0	178	141	207	6,294	7,320		
08/21/2016	4.39	34.57	3.83	1.00	0.305	1.033	10,115		70.0	22.0	7.67	338	848	12,375	31,047		7.55	7.0	372	303	202	13,620	7,396		
08/22/2016	8.04	8.21	1.97	0.00	0.398	0.000	88,752		79.0	22.9	7.78	405	1136	27,157	76,173		7.49	52.0	1298	1008	510	87,036	34,197		
08/23/2016	4.44	6.87	1.82	0.00	0.394	0.000	45,823		72.0	22.8	7.76	450	1170	16,663	43,325		7.83	35.0	646	497	360	23,921	13,331		
08/24/2016	4.52	6.77	1.87	0.00	0.324	0.000	51,808		80.0	23.4	7.79	525	1142	19,791	43,050		7.45	11.0	378	310	378	14,249	14,249		
08/25/2016	4.52	6.65	1.87	0.00	0.363	0.000	51,545		78.0	23.1	7.85	630	1852	23,749	69,814		7.55	15.0	408	346	354	15,380	13,345		
08/26/2016	4.47	6.71	1.68	0.00	0.184	0.000	38,639		80.0	23.4	7.66	900	1488	33,552	55,472		7.26	17.0	454		308	16,925	11,482		
08/27/2016	4.25	6.57	1.93	0.00	0.295	0.000	3,600		63.0	22.8	7.69	765	1500	27,115	53,168		7.38	10.0	291		204	10,314	7,231		
08/28/2016	4.35	6.74	1.97	0.00	0.255	0.000	6,429		65.0	22.9	7.76	465	1176	16,870	42,664		7.68	4.5	211	192	264	7,655	9,578		
08/29/2016	4.50	6.86	1.82	0.00	0.208	0.000	54,297		80.0	23.2	7.77	555	1422	20,829	53,368		7.65	4.5	234	190	306	8,782	11,484		
08/30/2016	4.45	6.88	1.44	0.00	0.178	0.000	51,585		76.0	23.6	7.70	795	1528	29,505	56,709		7.51	19.0	377	325	411	13,992	15,253		
08/31/2016	4.32	7.61	0.82	0.00	0.319	0.000	34,553		78.0	23.5	7.63	675	1460	24,319	52,602		7.18	23.0	758	620	450	27,310	16,213		
MMAVG	6.58																								
Min.	4.2	6.6	0.8	0.0		0.000	2,503		58.0	21.8	6.65	179	437	6,449	15,708		7.18	2.7	154	116	123	6294	6161		
Max.	8.0	34.6	3.8	2.0		1.278	88,752		90.0	23.6	7.86	900	1852	36,787	76,173		7.83	65.0	1298	1008	555	87036	34197		
Total	153.1	326.2	58.4	5.0		2.810	977,528																		
Average	4.9	10.5	1.9	0.2		0.091	31,533		76.42	22.65	7.66	502	1115	20240	45274		7.51	15.1	409	320	300	17627	12480		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
08/01/2016	6.97	<0.10	6.4	3.4	3.4	248	132	40	24.1	6.5	2.0	<0.01	<0.01	<0.01		0.77	30	0.13	5		99.387	99.479	7.46	2.0	6.4	4.4	7.15	2.3	11.2	6.8					
08/02/2016	6.75	<0.10	7.0	3.6	4.4	365	230	45	23.9	6.7	2.8	<0.01	<0.01	<0.01		0.78	41	0.28	15		98.603	99.241	7.42	2.4	5.8	4.0	7.16	3.3	13.4	8.2					
08/03/2016	6.93	<0.10	5.0	2.8	4.5	192	173	8	24.1	6.8	2.1	<0.01	<0.01	<0.01							98.918	99.429	7.61	3.1	4.8	3.6	7.39	3.5	14.4	8.8					
08/04/2016	6.97	<0.10	6.4	5.4	5.1	325	259	9	24.3	6.4	2.2	<0.01	<0.01	<0.01							99.105	99.508	7.82	6.5	10.8	8.2	7.60	4.3	14.6	10.6					
08/05/2016	7.20	<0.10	6.4		4.7	231	169	10	24.8	6.7	2.4	<0.01	<0.01	<0.01							97.374	99.554	7.75	4.5	10.0		7.38	4.3	19.8						
08/06/2016	7.07	0.00	5.0	3.4	3.7	180	133	0	24.3	5.9	1.9	<0.01	<0.01	<0.01							99.486	98.856	7.67	2.0	6.6	4.1	7.26	5.2	16.3	11.0					
08/07/2016	7.03	<0.10	7.4	5.4	3.1	273	115	5	23.9	6.3	0.9	<0.01	<0.01	<0.01		0.99	37	0.18	7		99.221	98.693	7.78	3.3	7.2	5.4	7.53	5.6	18.8	14.2					
08/08/2016	7.15	<0.10	6.4	5.2	4.6	232	166	13	24.7	6.7	2.0	<0.01	<0.01	<0.01		1.19	43	0.16	6		99.193	99.488	7.78	3.4	7.8	6.0	7.39	5.8	20.8	15.6	69.00	<50.00	<0.50	29.00	<0.20
08/09/2016	7.15	<0.10	9.4	6.6	4.1	334	146	13	24.8	6.5	2.0	<0.01	<0.01	<0.01		1.18	42	0.18	6		99.196	99.117	7.80	3.2	5.0	2.0	7.31	4.7	16.0	13.0					
08/10/2016	7.07	<0.10	34.4	27.6	20.1	2,083	1,217	8	24.7	6.6	2.0	<0.01	<0.01	<0.01							95.098	95.845	7.75	3.0	16.6	14.8	7.32	11.9	16.8	12.2					
08/11/2016	7.16	<0.10	8.6	5.8	5.0	333	193	25	25.3	6.6	2.8	<0.01	<0.01	<0.01							98.551	99.186	7.85	3.1	5.8	4.4	7.60	11.3	22.8	18.4					
08/12/2016	7.24	<0.10	9.6	7.8	3.6	410	154	8	25.7	6.1	1.7	<0.01	<0.01	<0.01							99.040	99.306	7.88	2.0	20.0	14.0	7.60	6.9	25.8	18.6					
08/13/2016	7.15	<0.10	64.2	48.0	40.8	3,304	2,099	24	25.3	6.5	1.7	<0.01	<0.01	<0.01							77.333	88.242	7.82	3.4	26.0	18.0	7.63	6.8	19.2	13.8					
08/14/2016	7.16	0.50	6.0	5.0	4.0	308	205	23	25.6	6.4	2.3	<0.01	<0.01	<0.01		0.65	33	0.14	7		98.714	98.997	7.75	3.0	3.0	5.0	7.58	5.7	16.8	14.2					
08/15/2016	7.20	<0.10	10.4	7.4	3.7	397	141	30	25.3	6.8	2.4	<0.01	<0.01	<0.01		0.75	29	0.13	5		99.013	98.872	7.51	2.7	6.8	5.4	7.21	6.0	21.6	16.4					
08/16/2016	6.95	<0.10	9.0	4.6	4.6	368	188	13	24.6	6.7	2.5	<0.01	<0.01	<0.01		0.87	36	0.20	8		98.978	99.211	7.51	3.8	10.8	6.6	7.10	6.6	27.2	17.0					
08/17/2016	6.87	<0.10	9.2	5.2	3.7	364	147	30	24.9	6.7	2.4	<0.01	<0.01	<0.01							99.368	99.098	7.57	3.7	6.6	4.8	6.91	7.8	28.8	20.0					
08/18/2016	7.16	<0.10	8.4	5.6	4.3	329	168	22	25.1	6.4	81.0	<0.01	<0.01	<0.01							99.131	99.175	7.73	4.0	9.4	7.0	7.24	11.1	32.6	21.0					
08/19/2016	7.09	<0.10	10.2		3.8	431	161	2	25.1	6.6	2.3	<0.01	<0.01	<0.01							99.563	99.180	7.63	4.0	45.0		7.27	7.4	31.4						
08/20/2016	7.21	0.10	19.0	11.0	2.0	672	71	9	24.4	6.4	2.0	<0.01	<0.01	<0.01							99.540	98.115	6.70	2.2	27.0	15.0	7.45	5.4	8.2	2.8					
08/21/2016	7.39	<0.10	35.8	24.4	24.0	1,311	879	3	14.5	6.9	2.0	<0.01	<0.01	<0.01		1.20	44	1.60	59		92.899	95.778	7.72	7.3	12.2	10.0	7.28	3.9	24.0	17.2					
08/22/2016	7.02	0.20	10.6	6.8	5.8	711	389	45	24.8	6.4	4.6	<0.01	<0.01	<0.01		0.43	29	0.18	12		98.568	99.067	7.85	4.4	9.2	7.2	7.52	8.0	28.0	22.0					
08/23/2016	7.55	<0.10	6.2	4.2	5.5	230	204	31	24.5	6.0	2.2	<0.01	<0.01	<0.01		0.50	19	0.20	7		98.778	99.470	7.97	4.1	6.2	5.0	7.68	11.7	33.6	27.4					
08/24/2016	7.25	<0.10	8.6	5.4	5.1	324	192	5	24.8	5.9	2.1	<0.01	<0.01	<0.01							99.029	99.247	7.87	3.4	7.0	4.8	7.68	13.7	34.0	26.0				24.00	
08/25/2016	7.25	0.10	5.4	2.6	6.0	204	226	9	24.9	6.1	2.6	<0.01	<0.01	<0.01							99.048	99.708	7.79	4.9	11.4	4.8	7.80	17.0	34.8	26.4					
08/26/2016	7.43	0.10	10.4		3.7	388	138	18	25.0	6.0	2.6	<0.01	<0.01	<0.01							99.589	99.301	7.50	2.2	49.0		7.67	11.3	35.4						
08/27/2016	7.35	0.10	11.0		3.6	390	128	11	24.6	6.1	2.1	<0.01	<0.01	<0.01							99.529	99.267	7.61	2.0	12.8		7.60	8.4	37.2						
08/28/2016	7.14	0.10	7.6	5.6	3.2	276	116	14	24.6	6.1	2.0	<0.01	<0.01	<0.01		0.72	26	0.18	7		99.312	99.354	7.76	2.0	3.8	2.8	7.72	11.6	35.8	27.6					
08/29/2016	7.10	<0.10	7.4	5.8	4.6	278	173	20	25.4	6.2	2.2	<0.01	<0.01	<0.01		0.86	32	0.25	9		99.171	99.480	7.67	2.0	6.8	4.0	7.54	11.4	33.0	27.0					
08/30/2016	6.94	0.10	6.0	5.8	8.6	223	319	21	24.9	5.9	3.2	<0.01	<0.01	<0.01		0.86	32	0.19	7		98.918	99.607	7.77	2.0	2.0	2.4	7.60	14.0	29.6	23.8					
08/31/2016	7.15	<0.10	6.6	3.8	4.6	238	166	13	24.7	5.7	3.0	<0.01	<0.01	<0.01							99.319	99.548	7.72	2.0	7.4	5.8	7.67	13.8	38.0	30.8					
MMAVG														MMAVG		0.52																			
Min.	6.8	0.00	5	3	2	180	71	0	14.5	5.7	1			<0.01		0.43	19	0.13	5		77.33	88.24	6.7	2.0	2.0	2.0	6.9	2.3	8.2	2.8	69.0	<50	<0.50	24.0	<0.20
Max.	7.6	0.50	64	48	41	3304	2099	45	25.7	6.9	81			<0.01		1.20	44	1.60	59		99.59	99.71	8.0	7.3	49.0	18.0	7.8	17.0	38.0	30.8	69.0	<50	<0.50	29.0	<0.20
Total																																			
Average	7.1	<0.11	12	8	7	514	297	13	24.4	6.4	5			<0.01		0.84	34	0.29	11		98.03	98.66	7.7	3.3	11.9	6.6	7.4	8.1	24.5	17.4	69.0	<50	<0.50	26.5	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
08/01/2016	6,520	7,370	4,770	5,320	8,680	6,450	5.38	6.14	3,225,600	3,369,600	45,541	51,478	2,464	35,836	2,873	36,981	48	38	5,600	6,150	4,010	4,420	6,510	7,720	6.93	6.94	2,606,400	2,347,200	57,796	63,473	2,103	36,228	2,404	36,104	80	49
08/02/2016	6,450	7,320	4,880	5,310	8,530	8,090	5.35	6.42	3,312,000	3,369,600	45,052	51,128	2,590	35,466	2,763	36,324	48	37	5,730	6,280	4,190	4,520	8,080	9,910	6.92	7.12	2,664,000	2,289,600	59,138	64,814	1,665	26,056	2,165	26,165	77	49
08/03/2016	6,750	7,490	5,070	5,370	8,710	8,500	5.56	6.73	3,326,400	3,254,400	47,147	52,316	2,841	35,446	2,740	35,949	47	59	6,090	6,850	4,370	4,970	7,690	8,320	6.99	7.12	2,750,400	2,275,200	86,694	70,697	0	0	0	0	49	48
08/04/2016	6,820	8,010	5,140	5,890	6,220	7,990	4.92	6.24	3,254,400	3,312,000	47,636	55,948					51	59	6,420	6,590	4,660	4,780	8,080	8,010	6.74	6.68	2,750,400	2,318,400	66,259	68,014	2,483	36,000	2,621	36,000	48	52
08/05/2016	9,200		7,060		12,110		1.78		3,355,200		64,260		4,135	37,059			57		7,600	7,250	5,540	5,660	8,880	9,050	6.13	6.06	2,822,400	2,304,000	78,438	74,825					46	50
08/06/2016	9,450		7,140		11,320		2.30	4.50	3,225,600		66,006		2,893	36,711			57		7,710	7,750	5,690	5,730	10,150	8,700	5.50	5.90	2,606,400	2,347,200	79,573	79,986					45	49
08/07/2016	8,700		6,390		11,280		3.50	5.00	3,297,600		60,767		3,046	32,381			58		7,370	7,730	5,630	5,560	10,880	9,050	5.70	6.20	2,664,000	2,289,600	76,064	79,779					49	52
08/08/2016	8,370		5,980		11,750		4.10	5.30	3,211,200		58,462						60		7,600	8,140	5,400	5,710	10,740	10,080	6.00	6.30	2,635,200	2,635,200	78,438	84,011	3,267	36,000	2,717	36,000	46	49
08/09/2016	9,220		6,740		14,880		4.31		3,312,000		64,399		1,804	16,250			65		7,640	7,860	5,730	5,710	10,320	9,300	6.39	6.47	2,764,800	2,361,600	78,851	81,121	3,584	35,973	2,657	35,966	52	51
08/10/2016	9,440		6,950		11,900		3.19		3,312,000		65,936		11,672	106,120			58		8,130	5,680	5,890	4,090	11,000	8,980	6.12	5.94	2,764,800	2,491,200	83,908	58,622					49	67
08/11/2016	8,860		8,580		12,050		4.18		3,202,560		61,885		2,490	23,106			63		7,560	7,870	5,960	5,610	10,510	10,780	5.56	5.51	2,865,600	2,433,600	78,025	81,224	3,717	36,083	3,838	35,886	58	56
08/12/2016	8,590		6,310		10,920		4.04		2,635,200		59,999		4,817	53,628			86		7,870	7,340	5,610	5,300	10,620	11,130	5.77	5.59	2,635,200	2,404,800	81,224	75,754	4,415	53,903			64	67
08/13/2016	9,460		7,010		11,830		3.36		3,168,000		66,076		3,493	36,095			69		7,800	8,440	5,540	6,070	11,340	9,860	5.25	5.93	2,736,000	2,491,200	80,502	87,107					53	58
08/14/2016	5,450		4,120		11,950		4.64		3,225,600		38,067		3,594	36,065			53		7,780	11,230	5,610	8,510	8,160	12,040	6.72	5.52	2,793,600	2,520,000	80,295	115,902					50	39
08/15/2016	9,410		7,050		13,150		3.60	4.60	3,283,200		65,726		5,242	54,044			57		9,430	9,170	6,840	6,480	13,340	11,170	6.80	6.90	2,649,600	2,390,400	97,325	94,641	4,848	53,824			40	44
08/16/2016	8,480		6,140		11,100		5.08		3,268,800		59,231		2,108	20,160			60		8,130	7,860	5,770	5,590	12,670	9,300	7.12	7.56	2,692,800	2,433,600	83,908	81,121	3,950	38,180	3,231	38,018	49	51
08/17/2016	9,040		6,470		13,030		4.70	3.70	3,384,000		63,142		3,439	32,884			53		9,250	8,430	6,820	5,840	15,270	11,130	6.90	7.50	2,606,400	2,100,960	95,467	87,004	2,931	36,421	3,286	36,332	43	44
08/18/2016	9,650		7,100		12,730		4.40	4.90	3,384,000		67,403						55		9,590	8,500	6,930	5,950	13,720	10,200	7.00	7.60	2,808,000	2,448,000	98,976	87,726	3,734	36,179	3,245	36,207	45	44
08/19/2016	9,160		6,650		11,830		3.07		3,369,600		63,980		1,392	13,440			62		7,630	8,050	5,570	5,950	11,730	8,900	6.90	7.03	2,736,000	2,404,800	78,747	83,082	3,340	36,110	2,887	36,110	52	50
08/20/2016	8,810		6,580		11,060		4.39		3,355,200		61,536		2,232	21,551			65		7,780	6,940	5,770	5,100	11,150	8,360	7.08	6.79	2,880,000	2,448,000	80,295	71,626					51	50
08/21/2016	9,090		6,720		11,210		5.02		3,312,000		63,491						64		8,090	7,180	5,920	5,220	11,560	8,730	7.18	6.82	2,793,600	2,563,200	83,495	74,103					49	54
08/22/2016	8,290		6,070		12,610		5.37		3,240,000		57,904		3,837	37,404			54		7,990	7,260	5,740	5,350	13,630	13,480	6.43	7.06	2,851,200	2,318,400	82,463	74,929	3,410	36,169	1,260	11,950	44	48
08/23/2016	11,410		8,390		14,540		2.60	0.00	3,441,600		79,696						56		9,100	9,810	5,870	6,150	11,730	14,870	5.80	5.10	2,851,200	2,520,000	93,919	101,247	3,379	36,160	6,632	60,217	47	51
08/24/2016	10,940		8,270		11,450		3.06		3,372,480		76,413		5,738	53,796			64		8,280	8,510	6,120	6,240	10,090	12,750	6.05	4.83	2,894,400	2,505,600	85,456	87,830					48	58
08/25/2016	10,460		7,450		11,050		4.42		2,980,800		73,060		3,447	33,890			61		8,230	9,160	5,870	6,650	10,390	15,180	5.87	5.08	2,678,400	2,246,400	84,940	94,538	3,624	35,923	1,800	14,220	47	49
08/26/2016	10,070		7,100		10,370		560.00	0.00	2,952,000		70,336		3,093	32,434			30		8,070	8,980	5,740	6,600	8,770	16,940	4.87	6.10	2,764,800	2,217,600	83,288	92,680			3,939	29,674	42	48
08/27/2016	9,090		6,290		10,810		5.45		2,937,600		63,491		3,417	33,892			68		7,090	9,360	4,990	6,750	7,740	15,480	6.57	5.10	2,736,000	2,160,000	73,174	96,602			4,899	35,146	51	62
08/28/2016	9,250		6,420		11,550		5.95		2,707,200		64,609		3,308	35,483			57		7,010	7,010	4,880	5,260	9,920	16,330	6.88	5.41	2,721,600	2,246,400	72,348	72,348			4,602	35,148	44	67
08/29/2016	9,340		6,720		11,430		6.01		2,836,800		65,238		3,484	36,544			63		7,000	9,550	4,980	7,050	8,270	16,670	5.56	7.02	2,764,800	2,188,800	72,245	98,563			4,791	34,579	44	53
08/30/2016	9,040		6,610		9,960		6.00		2,880,000		63,142		6,101	55,671			68		6,950	9,350	5,000	6,990	9,090	14,910	4.56	7.10	2,793,600	2,304,000	71,729	96,499			5,608	40,271	43	56
08/31/2016	8,800		6,220		10,530		6.85		2,851,200		61,466						65		7,150	9,690	5,100	7,180	9,620	14,140	6.61	4.47	2,851,200	2,304,000	73,793	100,008			3,659	27,046	45	51
MMAVG																																				
Min.	5,450	7,320	4,120	5,310	6,220	6,450	2	0	2,635,200	3,254,400	38,067	51,128	1,392	13,440	2,740	35,949	30	37	5,600	5,680	4,010	4,090	6,510	7,720	5	4	2,606,400	2,100,960	57,796	58,622	0	0	0	0	40	39
Max.	11,410	8,010	8,580	5,890	14,880	8,500	560	7	3,441,600	3,369,600	79,696	55,948	11,672	106,120	2,873	36,981	86	59	9,590	11,230	6,930	8,510	15,270	16,940	7	8	2,894,400	2,635,200	98,976	115,902	4,848	53,903	6,632	60,217	80	67
Total									98,619,840	13,305,600	1,911,097	210,870	92,677	945,356	8,376	109,254											85,132,800	73,308,960	2,452,932	2,579,876	50,450	569,209	66,241	641,039		
Average	8,826	7,548	6,529	5,473	11,308	7,758	22	4	3,181,285	3,326,400	61,648	52,718	3,707	37,814	2,792	36,418	59	48	7,667	8,064	5,540	5,838	10,376	11,338	6	6	2,746,219	2,364,805	79,127	83,222	3,153	35,576	3,312	32,052	50	52

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
09/01/2016	5.95	30.18	1.73	0.50	0.242	1.578	37,350		73.0	23.4	7.69	960	1226	47,638	60,838		7.51	4.0	136	113	197	6,749	9,776		
09/02/2016	4.48	6.73	1.66	0.00	0.301	0.000	35,846		79.0	23.2	7.79	291	1110	10,873	41,473		7.22	1.5	236		186	8,818	6,950		
09/03/2016	4.23	6.72	1.67	0.00	0.272	0.000	10,209		70.0	23.1	7.78	236	1032	8,326	36,407		7.31	1.5	181	148	146	6,385	5,151		
09/04/2016	4.13	6.81	1.56	0.00	0.291	0.000			77.0	23.2	7.77	161	1042	5,546	35,891		7.36	1.0	166	134	218	5,718	7,509		
09/05/2016	4.31	9.35	2.19	0.01	0.275	0.000	32,718		65.0	22.0	7.72	720	1600	25,881	57,513		7.64	1.0	121	96	198	4,349	7,117		
09/06/2016	4.66	9.08	0.00	0.20	0.283	0.000	21,057		58.0	23.1	7.78	690	1364	26,816	53,011		7.61	2.0	148	130	314	5,752	12,203		
09/07/2016	4.86	10.13	1.62	0.02	0.312	0.000	45,406		66.0	22.8	7.72	825	1646	33,439	66,716		7.44	23.0	1224	540	585	49,612	23,711		
09/08/2016	4.55	11.77	1.83	0.10	0.276	0.000	42,895		72.0	23.0	7.71	705	1618	26,753	61,398		7.38	25.0	538	440	630	20,415	23,907		
09/09/2016	4.88	8.28	1.66	0.00	0.300	0.000	27,631		82.0	23.1	7.80	1245	1170	50,671	47,618		7.26	15.0	395	315	471	16,076	19,169		
09/10/2016	4.20	8.11	1.49	0.00	0.323	0.000	14,295		71.0	22.9	7.81	1065	2378	37,305	83,297		7.39	6.0	203	181	377	7,111	13,206		
09/11/2016	4.60	11.19	2.15	0.00	0.260	0.000	6,072		75.0	22.9	7.80	495	1040	18,990	39,899		7.65	6.5	207	178	273	7,941	10,473		
09/12/2016	4.62	9.78	1.97	0.00	0.763	0.000	42,661		64.0	22.9	7.80	705	1576	27,164	60,725		7.61	9.0	396	330	464	15,258	17,878		
09/13/2016	4.68	7.88	1.39	0.00	0.287	0.000	41,578		75.0	23.3	7.70	645	1308	25,175	51,053		7.42	8.5	371	313	446	14,481	17,408		
09/14/2016	4.45	7.15	1.33	0.00	0.299	0.000	59,825		78.0	23.1	7.76	915	1780	33,958	66,061		8.29	12.0	454	376	435	16,849	16,144		
09/15/2016	4.23	7.71	1.28	0.00	0.369	0.000	57,312		63.0	22.7	7.82	915	1926	32,280	67,946		7.50	12.0	420	369	458	14,817	16,157		
09/16/2016	4.43	7.98	1.33	0.00	0.311	0.000	34,657		62.0	22.7	7.75	372	1746	13,744	64,508		7.53	24.0	333	272	267	12,303	9,865		
09/17/2016	4.15	7.50	1.40	0.00	0.316	0.000	11,927		66.0	21.9	6.95	780	1906	26,997	65,969		7.60	7.0	284	239	306	9,830	10,591		
09/18/2016	4.31	25.82	1.77	0.30	0.311	0.000			68.0	22.2	7.68	540	1550	19,411	55,715		7.64	3.1	177	160	204	6,362	7,333		
09/19/2016	6.67	24.61	1.62	0.10	0.311	0.130	3,869		62.0	21.9	7.77	375	940	20,860	52,290		7.66	2.0	153	122	228	8,511	12,683		
09/20/2016	4.60	7.49	1.76	0.00	0.296	0.000	47,874		65.0	22.9	7.75	405	1106	15,537	42,431		7.52	4.5	240	193	314	9,207	12,046		
09/21/2016	4.47	7.13	1.55	0.00	0.274	0.000	39,043		65.0	23.4	7.77	585	1250	21,809	46,600		7.47	4.5	276	230	390	10,289	14,539		
09/22/2016	4.39	7.69	1.44	0.00	0.293	0.000	55,942		70.0	22.7	7.84	660	1598	24,164	58,507		7.66	3.5	266	215	345	9,739	12,631		
09/23/2016	5.48	25.53	2.08	0.52	0.297	0.147	38,377		68.0	22.9	7.90	135	1416	6,170	64,716		7.53	9.0	319	249	165	14,579	7,541		
09/24/2016	4.78	7.18	1.47	0.00	0.303	0.000	16,835		57.0	21.6	7.88	161	1084	6,418	43,214		7.59	3.0	152	124	141	6,060	5,621		
09/25/2016	4.45	7.47	1.66	0.00	0.299	0.000	11,603		40.0	21.9	7.88	450	1096	16,701	40,676		7.74	5.0	236	197	287	8,759	10,651		
09/26/2016	4.88	11.59	1.39	0.10	0.286	0.000	45,352		58.0	21.9	7.65	660	1438	26,861	58,525		7.63	3.5	241	196	324	9,809	13,187		
09/27/2016	5.21	10.48	2.09	0.00	0.294	0.000	37,869		62.0	21.8	7.44	510	990	22,160	43,017		7.45	3.2	220	177	317	9,559	13,774		
09/28/2016	4.65	8.45	1.51	0.00	0.311	0.000	49,906		54.0	22.1	7.60	615	1328	23,850	51,501		7.52	5.5	249	206	383	9,656	14,853		
09/29/2016	4.79	10.46	1.61	0.00	0.297	0.000	65,385		56.0	22.8	7.79	555	1358	22,171	54,250		7.62	15.0	432	354	377	17,258	15,061		
09/30/2016	4.56	9.44	2.31	0.25	0.309	0.000	85,960		56.0	21.4	7.60	960	1646	36,509	62,598		7.31	14.0	316		273	12,018	10,382		
MMAVG	6.49																								
Min.	4.1	6.7	0.0	0.0		0.000	3,869		40.0	21.4	6.95	135	940	5,546	35,891		7.22	1.0	121	96	141	4349	5151		
Max.	6.7	30.2	2.3	0.5		1.578	85,960		82.0	23.4	7.90	1245	2378	50,671	83,297		8.29	25.0	1224	540	630	49612	23907		
Total	140.7	329.7	48.5	2.1		1.855	1,019,454																		
Average	4.7	11.0	1.6	0.1		0.062	36,409		65.90	22.63	7.72	611	1409	23806	54479		7.54	7.8	303	236	324	11809	12584		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
09/01/2016	7.26	<0.10	21.4	16.6	21.6	1,062	1,072	27	24.6	5.9	3.3	<0.01	<0.01	<0.01							97.750	98.254	7.74	2.0	5.0	3.6	7.61	17.9	53.0	43.8					
09/02/2016	7.12	<0.10	9.6		5.2	359	194	48	24.1	5.3	2.6	<0.01	<0.01	<0.01							98.213	99.135	7.70	2.4	19.0		7.70	15.0	37.6						
09/03/2016	7.23	0.00	5.8	5.4	3.4	205	120	12	24.0	6.1	1.7	<0.01	<0.01	<0.01							98.559	99.438	7.74	2.0	6.0	3.0	7.68	11.3	41.4	31.6					
09/04/2016	7.16	0.00	9.2	6.2	3.0	317	103	3	23.8	5.2	1.5	<0.01	<0.01	<0.01		0.62	21	0.16	6		98.137	99.117	7.70	2.0	4.4	4.0	7.66	11.0	50.2	38.4					
09/05/2016	7.08	0.00	8.6	5.6	3.5	309	126	20	23.6	5.1	1.0	<0.01	<0.01	<0.01		0.78	28	0.26	9		99.514	99.463	7.77	2.0	6.2	4.2	7.58	20.7	48.4	35.8					
09/06/2016	7.04	0.10	7.8	6.4	4.1	303	159	47	23.7	5.8	2.7	<0.01	<0.01	<0.01		0.87	34	0.25	10		99.406	99.428	7.73	4.6	8.6	6.4	7.56	20.4	56.0	43.4					
09/07/2016	7.01	0.10	12.4	7.2	7.2	503	292	37	23.5	6.0	3.1	<0.01	<0.01	<0.01							99.127	99.247	7.69	3.3	4.8	2.6	7.72	21.3	62.6	47.0					
09/08/2016	7.35	0.01	10.0	8.2	7.5	379	285	28	24.6	5.9	3.3	<0.01	<0.01	<0.01							98.936	99.382	7.81	2.4	5.6	3.8	7.72	20.6	34.8	27.4	76.00	<0.05	<0.50	26.00	<0.20
09/09/2016	7.18	0.20	11.8	7.6	9.9	480	403	630	24.7	5.9	3.7	<0.01	<0.01	<0.01							99.205	98.991	7.76	2.0	21.0	9.0	8.33	14.7	30.4	23.8					
09/10/2016	7.24	<0.10	7.0	5.0	3.2	245	112	7	25.1	6.0	2.1	<0.01	<0.01	<0.01							99.700	99.706	7.89	2.0	36.0	22.0	8.30	15.3	36.2	29.0					
09/11/2016	7.22	<0.10	8.2	6.2	6.6	315	253	6	25.1	6.0	2.0	<0.01	<0.01	<0.01		0.60	23	0.33	13		98.667	99.212	7.87	2.0	6.0	4.4	7.80	11.0	32.0	23.8					
09/12/2016	7.24	<0.10	8.0	5.6	7.0	308	270	27	24.7	5.8	2.9	<0.01	<0.01	<0.01		0.68	26	0.21	8		99.007	99.492	7.93	2.0	7.4	5.4	7.76	14.9	35.0	26.2					
09/13/2016	7.33	0.10	10.0	6.8	6.5	390	254	75	24.7	6.1	6.9	<0.01	<0.01	<0.01		0.66	26	0.21	8		98.992	99.235	7.92	2.2	8.4	7.0	7.88	15.5	33.4	25.8					
09/14/2016	7.40	<0.10	8.8	5.4	12.9	327	479	230	25.1	5.8	3.9	<0.01	<0.01	<0.01							98.590	99.506	8.00	3.9	10.0	6.8	7.97	9.6	25.6	17.0					
09/15/2016	7.38	<0.10	6.8	5.0	4.4	240	155	20	23.9	6.5	3.3	<0.01	<0.01	<0.01							99.519	99.647	8.16	6.0	8.6	6.8	7.89	14.6	19.4	14.4					
09/16/2016	7.52	0.10	10.6	6.6	3.0	392	111	23	23.7	5.8	3.3	<0.01	<0.01	<0.01							99.194	99.393	8.10	2.7	9.0	6.4	7.79	7.0	20.6	15.6					
09/17/2016	7.53	<0.10	9.0	7.4	3.5	311	121	28	23.0	5.9	3.5	<0.01	<0.01	<0.01							99.551	99.528	7.93	2.0	8.0	7.0	7.72	5.6	23.0	18.0					
09/18/2016	7.43	<0.10	10.0	6.8	4.4	359	158	12	23.9	6.1	3.6	<0.01	<0.01	<0.01		0.87	31	0.35	13		99.185	99.355	7.98	2.0	11.6	9.0	7.53	6.0	27.8	17.6					
09/19/2016	7.10	0.70	12.0	8.2	9.6	668	534	370	24.3	5.5	10.1	<0.01	<0.01	<0.01		0.91	51	0.12	7		97.440	98.723	7.99	6.0	8.6	5.0	7.60	6.8	25.2	20.0					
09/20/2016	7.37	<0.10	6.6	4.2	3.1	253	119	20	23.7	6.0	3.9	<0.01	<0.01	<0.01		0.85	33	0.12	5		99.235	99.403	7.94	2.0	9.0	6.6	7.62	4.8	19.8	14.2					
09/21/2016	7.28	<0.10	8.2	5.6	5.3	306	198	55	23.9	5.9	3.0	<0.01	<0.01	<0.01							99.094	99.344	8.08	4.6	12.0	6.8	7.71	5.6	20.4	15.4					
09/22/2016	7.44	<0.10	8.8	5.2	6.8	322	249	32	24.3	5.9	3.4	<0.01	<0.01	<0.01							98.970	99.449	8.06	5.9	31.6	29.2	7.69	14.9	31.6	21.2					
09/23/2016	7.42	<0.10	29.4	23.0	17.9	1,344	818	20	23.9	6.6	3.1	<0.01	<0.01	<0.01							86.741	97.924	7.90	4.6	8.4	5.0	7.56	9.3	25.8	18.2					
09/24/2016	7.23	<0.10	10.6	7.8	3.4	423	136	11	22.6	6.3	1.4	<0.01	<0.01	<0.01							97.888	99.022	7.94	2.0	5.1	4.1	7.66	6.1	18.4	14.6					
09/25/2016	7.31	<0.10	8.8	6.4	3.9	327	145	75	21.9	6.2	2.1	<0.01	<0.01	<0.01		0.80	30	0.14	5		99.133	99.197	7.99	2.0	6.0	4.6	7.66	4.9	15.8	13.0					
09/26/2016	7.27	<0.10	6.6	5.0	5.3	269	216	57	21.9	6.2	3.6	<0.01	<0.01	<0.01		0.81	33	0.13	5		99.197	99.541	8.02	2.0	6.2	3.6	7.52	5.4	20.2	14.4					
09/27/2016	7.41	0.10	6.8	5.0	4.3	295	187	76	22.0	6.3	6.6	<0.01	<0.01	<0.01		0.74	32	0.16	7		99.157	99.313	7.86	2.2	8.4	5.2	7.54	5.8	20.8	14.0					
09/28/2016	7.14	<0.10	7.6	4.6	5.9	295	229	37	22.7	6.0	3.6	<0.01	<0.01	<0.01							99.041	99.428	7.89	2.4	8.2	5.4	7.57	5.3	17.2	13.8					
09/29/2016	7.23	<0.10	6.8	4.2	5.5	272	220	28	22.2	6.2	3.7	<0.01	<0.01	<0.01							99.009	99.499	7.95	2.6	7.0	4.0	7.59	6.8	17.4	12.8					
09/30/2016	7.28	<0.10	11.2		4.6	426	175	12	22.1	6.3	2.7	<0.01	<0.01	<0.01							99.521	99.320	7.70	2.6	28.4		7.41	6.5	8.8						
MMAVG													MMAVG			0.53																			
Min.	7.0	0.00	6	4	3	205	103	3	21.9	5.1	1			<0.01		0.60	21	0.12	5		86.74	97.92	7.7	2.0	4.4	2.6	7.4	4.8	8.8	12.8	76.0	<0	<0.50	26.0	<0.20
Max.	7.5	0.70	29	23	22	1344	1072	630	25.1	6.6	10			<0.01		0.91	51	0.35	13		99.70	99.71	8.2	6.0	36.0	29.2	8.3	21.3	62.6	47.0	76.0	<0	<0.50	26.0	<0.20
Total																																			
Average	7.3	<0.11	10	7	6	400	263	32	23.7	6.0	3			<0.01		0.77	31	0.20	8		98.52	99.26	7.9	2.9	10.8	6.8	7.7	11.2	30.3	23.2	76.0	<0	<0.50	26.0	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
09/01/2016	9,220		6,870		9,940		6.96		2,793,600		64,399		6,000	55,468			65		7,770	10,140	5,580	7,520	10,300	15,740	2.74	5.61	2,851,200	2,347,200	80,192	104,652			3,229	22,500	45	50
09/02/2016	8,810		6,720		9,780		7.50		2,808,000		61,536		5,604	54,457			64		8,150	9,630	5,570	7,250	10,560	16,720	3.76	6.73	2,808,000	2,160,000	84,114	99,389			3,005	22,706	47	52
09/03/2016	8,040		5,530		8,470		7.47		2,822,400		56,157						62		7,830	9,280	5,570	6,850	10,050	15,360	6.61	4.01	2,836,800	2,275,200	86,694	95,777	3,840	37,339	9,433	71,859	38	49
09/04/2016	7,980		5,380		8,310		7.65		2,721,600		55,738						74		7,560	9,380	5,280	6,680	10,290	14,180	6.85	4.55	2,750,400	2,188,800	78,025	96,809	3,083	36,351	4,383	35,585	50	52
09/05/2016	8,050		5,410		15,070		7.83		2,620,800		56,227						71		7,880	9,510	5,620	6,990	9,070	14,290	7.02	5.08	2,764,800	2,160,000	81,328	98,150	3,310	36,081	4,580	35,399	48	48
09/06/2016	8,560		5,930		8,160		7.92		2,692,800		59,789		655	10,676			76		7,810	9,310	5,760	6,990	11,050	14,760	6.87	4.84	2,592,000	2,174,400	80,605	96,086					51	51
09/07/2016	8,080		5,450		7,820		7.61		2,779,200		56,437						69		7,690	8,580	5,500	6,360	9,990	15,100	6.41	3.44	2,793,600	2,160,000	79,367	88,552	1,272	14,439	8,996	67,203	49	49
09/08/2016	8,440		5,880		8,060		7.86		1,886,400		58,951						59		8,630	9,610	6,610	7,200	8,410	16,360	6.48	4.75	2,952,000	2,160,000	89,068	99,182			5,274	38,773	49	68
09/09/2016	8,660		5,970		8,760		7.78		2,001,600		60,488						52		7,970	9,440	6,020	7,300	10,690	16,620	5.50	2.65	2,880,000	2,232,000	82,256	97,428			4,751	34,717	50	58
09/10/2016	9,590		6,520		9,820		7.70		1,944,000		66,984						61		9,260	10,760	6,780	8,180	13,010	17,710	5.10	2.60	2,721,600	2,275,200	95,570	111,051					44	43
09/11/2016	9,380		6,370		9,680		7.60		1,828,800		65,517						73		9,260	10,820	6,740	8,140	11,860	16,740	5.20	2.50	2,736,000	2,088,000	95,570	111,671			4,957	35,507	51	47
09/12/2016	8,640		5,950		8,050		8.11		1,872,000		60,348						81		8,210	9,170	6,140	6,990	11,610	15,530	6.25	4.04	2,635,200	2,203,200	84,733	94,641	2,435	29,506	7,744	57,409	57	52
09/13/2016	8,570		5,790		9,160		8.18		1,800,000		59,859						78		8,190	8,940	6,070	6,830	10,540	16,550	6.61	5.72	2,851,200	2,174,400	84,527	92,268	6,268	58,047	6,386	55,237	54	52
09/14/2016	9,100		6,360		9,970		7.64		1,800,000		63,561						62		7,790	9,920	5,850	7,750	9,440	16,510	6.29	5.21	2,880,000	2,203,200	80,399	102,382	2,327	28,071	7,629	54,775	50	47
09/15/2016	7,630		5,280		10,440		6.34		2,203,200		53,294		3,536	38,725			79		7,660	9,840	5,750	7,600	9,030	14,310	6.69	5.45	2,808,000	2,232,000	79,057	101,556			3,253	25,454	52	55
09/16/2016	7,810		5,420		11,910		6.46		2,260,800		54,551		5,903	61,668			72		7,510	10,410	5,610	7,950	8,500	14,300	6.78	5.70	2,779,200	2,275,200	77,509	107,439	2,233	35,703	4,273	35,825	51	54
09/17/2016	8,140		5,720		11,220		5.98		2,217,600		56,856		3,456	36,932			80		7,080	10,440	5,190	7,780	7,870	15,100	6.89	5.76	2,865,600	2,232,000	73,071	107,749			4,604	36,562	57	60
09/18/2016	8,130		5,740		11,200		5.99		2,232,000		56,786						70		7,270	10,580	5,360	7,700	8,700	15,660	6.84	5.75	2,880,000	2,232,000	75,032	109,194					51	57
09/19/2016	9,180		6,640		13,980		6.51		2,246,400		64,120						52		7,310	7,920	5,410	5,930	9,780	21,040	6.93	6.32	2,908,800	2,188,800	75,445	81,740			7,137	32,168	41	44
09/20/2016	7,910		5,660		10,940		6.48		2,145,600		55,249		3,564	35,775			71		7,430	11,150	5,630	8,350	9,830	14,720			2,836,800	2,289,600	76,683	115,076			4,420	36,000	50	53
09/21/2016	9,060		6,470		11,330		6.00		2,188,800		63,282		3,489	36,283			49		8,320	10,470	6,260	7,960	10,220	14,230	6.50	6.10	2,894,400	2,246,400	85,869	108,058			3,701	31,182	42	41
09/22/2016	8,910		6,500		12,200		6.01		2,275,200		62,234						56		8,930	10,900	6,780	8,200	10,880	13,410	6.79	6.29	2,793,600	2,260,800	92,164	112,496			8,886	68,831	45	46
09/23/2016	7,490		6,070		10,380		5.41		2,188,800		52,316		3,158	34,473			76		7,840	9,530	5,820	7,050	9,750	13,560	6.18	6.69	2,865,600	2,275,200	80,915	98,357			3,921	34,747	51	53
09/24/2016	7,970		6,140		11,010		6.29		2,332,800		55,668						68		8,440	8,990	6,680	7,150	11,080	13,740	6.70	6.79	2,390,400	2,707,200	87,107	92,784					51	56
09/25/2016	9,120		7,020		10,210		6.16		2,332,800		63,701						65		8,560	8,960	6,770	7,060	10,830	10,660	6.73	6.92	2,390,400	2,707,200	88,346	92,474					60	61
09/26/2016	8,000		6,090		11,750		4.40		2,232,000		55,878		3,065	36,000			75		9,090	8,760	7,100	6,860	12,350	11,590	6.88	6.24	2,793,600	2,347,200	93,816	90,410			4,209	36,665	56	57
09/27/2016	8,060		6,270		12,250		5.00		2,260,800		56,297						72		9,120	7,910	7,230	6,350	13,090	13,420	6.72	6.04	2,822,400	2,260,800	94,125	81,637	4,225	36,627	4,121	36,071	56	57
09/28/2016	8,440		6,730		11,980		5.06		2,275,200		58,951						69		9,230	8,270	7,310	6,600	13,270	11,590	6.50	7.09	2,822,400	2,289,600	95,261	85,353	3,293	28,997	2,893	28,823	57	57
09/29/2016	8,360		5,560		11,230		5.28		2,246,400		58,393		4,691	47,523			72		9,880	7,580	8,620	5,660	13,520	9,650	7.43	6.59	2,808,000	2,275,200	101,969	78,231					61	55
09/30/2016	8,100		6,310		12,500		4.79		2,188,800		56,576		2,418	23,308			74		10,000	7,470	8,500	5,300	13,350	10,380	6.22	7.28	2,808,000	2,318,400	103,208	77,096	3,319	28,987	2,786	29,136	60	58
MMAVG																																				
Min.	7,490		5,280		7,820		4		1,800,000		52,316		655	10,676			49		7,080	7,470	5,190	5,300	7,870	9,650	3	3	2,390,400	2,088,000	73,071	77,096	1,272	14,439	2,786	22,500	38	41
Max.	9,590		7,020		15,070		8		2,822,400		66,984		6,000	61,668			81		10,000	11,150	8,620	8,350	13,520	21,040	7	7	2,952,000	2,707,200	103,208	115,076	6,268	58,047	9,433	71,859	61	68
Total									68,198,400		1,770,143		45,539	471,288													83,520,000	67,939,200	2,556,142	2,927,688	35,605	370,148	124,571	963,134		
Average	8,448		6,058		10,519		7		2,273,280		59,005		3,795	39,274			68		8,256	9,456	6,237	7,151	10,631	14,651	6	5	2,784,000	2,264,640	85,205	97,590	3,237	33,650	5,190	40,131	51	53

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Merchant Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
10/01/2016	5.70	9.81	1.60	0.10	0.283	0.000	19,714		53.0	19.3	7.64	795	1108	37,793	52,672		7.47	10.0	263		234	12,502	11,124		
10/02/2016	4.86	9.94	1.51	0.00	0.306	0.000			52.0	20.6	7.67	645	1616	26,143	65,500		7.60	9.0	358	314	354	14,511	14,348		
10/03/2016	4.69	9.19	1.56	0.00	0.314	0.000	71,443		58.0	21.9	7.75	540	1170	21,122	45,764		7.64	3.5	194	168	318	7,588	12,438		
10/04/2016	4.67	9.34	1.66	0.00	0.292	0.000	33,368		55.0	21.8	7.62	585	1314	22,784	51,177		7.57	5.8	269	231	344	10,477	13,398		
10/05/2016	4.59	9.14	1.51	0.00	0.299	0.000	48,903		45.0	21.9	7.64	1020	1368	39,046	52,368		7.52	13.0	345	297	411	13,207	15,733		
10/06/2016	4.74	8.75	1.66	0.00	0.307	0.000	35,837		45.0	21.0	7.68	840	1590	33,207	62,855		7.67	11.0	327	271	360	12,927	14,231		
10/07/2016	5.13	9.83	1.70	0.00	0.314	0.000	36,273		74.0	21.8	7.66	342	1558	14,632	66,658		7.45	10.0	377		314	16,130	13,434		
10/08/2016	4.50	9.40	1.62	0.00	0.316	0.000	49,689		61.0	21.7	7.69	231	1184	8,669	44,436		7.51	8.0	299		258	11,221	9,683		
10/09/2016	6.58	16.95	1.61	0.59	0.297	0.000			54.0	21.6	7.70	228	778	12,512	42,694		7.69	7.0	341	190	222	18,713	12,183		
10/10/2016	4.23	9.16	1.34	0.00	0.294	0.000	56,314		52.0	21.0	7.81	600	958	21,167	33,797		7.78	3.5	232	196	342	8,185	12,065		
10/11/2016	4.61	8.64	1.50	0.00	0.383	0.000	54,395		58.0	21.2	7.78	570	1300	21,915	49,982		7.73	24.0	456	370	441	17,532	16,955		
10/12/2016	4.34	8.23	1.38	0.00	0.369	0.000	58,147		58.0	20.4	7.66	1155	1772	41,806	64,139		7.63	25.0	457	377	446	16,541	16,143		
10/13/2016	4.61	9.84	1.23	0.00	0.363	0.000	41,504		64.0	20.4	7.80	570	1678	21,915	64,515		7.82	20.0	440	342	360	16,917	13,841		
10/14/2016	4.40	8.77	1.33	0.00	0.381	0.000	44,629		43.0	20.7	7.75	855	2106	31,375	77,282		7.78	28.0	407	321	309	14,935	11,339		
10/15/2016	4.42	8.60	1.26	0.00	0.361	0.000	26,266		33.0	20.0	7.78	510	1136	18,800	41,876		7.80	25.0	408	311	318	15,040	11,722		
10/16/2016	4.43	7.93	0.00	0.00	0.340	0.000			37.0	20.1	7.67	585	992	21,614	36,651		7.78	12.5	314	264	371	11,601	13,707		
10/17/2016	4.65	14.55	2.08	0.25	0.371	0.000	56,897		61.0	20.5	7.69	615	1552	23,850	60,188		7.77	20.0	391	315	404	15,163	15,668		
10/18/2016	5.37	9.98	1.51	0.00	0.366	0.000	60,617		60.0	20.6	7.67	570	1648	25,528	73,807		7.66	45.0	600	474	405	26,871	18,138		
10/19/2016	4.55	8.26	1.22	0.00	0.369	0.000	58,297		70.0	20.9	7.84	525	1308	19,922	49,635		7.78	27.0	498	388	380	18,898	14,420		
10/20/2016	4.54	8.68	1.56	0.01	0.345	0.000	53,239		48.0	20.5	7.88	465	1078	17,607	40,817		7.82	17.0	370	312	270	14,010	10,223		
10/21/2016	10.44	38.06	2.29	2.60	0.358	8.728	35,190		57.0	20.3	7.81	258	602	22,464	52,416		7.85	23.0	330	261	189	28,733	16,456		
10/22/2016	9.49	27.24	3.70	0.25	0.356	2.440	6,596		50.0	19.4	7.78	197	390	15,592	30,867		7.87	5.0	119	105	126	9,418	9,972		
10/23/2016	6.88	10.18	3.07	0.00	0.379	0.000	5,960		45.0	18.8	7.85	366	538	21,001	30,870		7.87	2.2	121	97	119	6,943	6,828		
10/24/2016	6.18	10.27	2.72	0.00	0.331	0.000	45,318		43.0	19.3	7.85	420	630	21,647	32,471		7.94	2.5	135	93	119	6,958	6,133		
10/25/2016	5.68	10.33	2.35	0.00	0.345	0.000	69,354		42.0	19.1	7.87	465	938	22,028	44,434		7.96	1.3	135	114	221	6,395	10,469		
10/26/2016	5.40	15.40	2.41	0.00	0.319	0.000	53,317		40.0	19.2	7.96	1215	1222	54,719	55,034		7.95	3.0	165	130	255	7,431	11,484		
10/27/2016	6.76	18.52	3.65	1.30	0.371	0.000	65,428		41.0	19.1	7.66	315	678	17,759	38,225		7.71	5.2	227	178	217	12,798	12,234		
10/28/2016	9.34	18.52	3.61	0.00	0.344	0.000	35,283		42.0	16.3	7.68	341	486	26,562	37,857		7.62	3.0	156		174	12,152	13,554		
10/29/2016	6.73	11.46	3.04	0.10	0.360	0.000	30,465		40.0	17.8	7.81	375	562	21,048	31,544		7.72	3.5	155	121	196	8,700	11,001		
10/30/2016	6.72	10.98	3.09	0.05	0.308	0.000			46.0	18.4	7.85	306	434	17,150	24,323		7.84	1.1	139	113	234	7,790	13,114		
10/31/2016	6.04	10.09	3.13	0.00	0.354	0.000	45,830		41.0	18.9	7.85	375	822	18,890	41,407		7.76	3.5	157	136	240	7,909	12,090		
MMAVG	6.46																								
Min.	4.2	7.9	0.0	0.0		0.000	5,960		33.0	16.3	7.62	197	390	8,669	24,323		7.45	1.1	119	93	119	6395	6133		
Max.	10.4	38.1	3.7	2.6		8.728	71,443		74.0	21.9	7.96	1215	2106	54,719	77,282		7.96	45.0	600	474	446	28733	18138		
Total	175.3	376.0	61.9	5.3		11.168	1,198,273																		
Average	5.7	12.1	2.0	0.2		0.360	44,380		50.58	20.15	7.75	544	1113	23880	48266		7.73	12.2	296	240	289	13168	12714		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
10/01/2016	7.16	0.10	10.0		2.8	475	133	12	21.8	6.9	3.5	<0.01	<0.01	<0.01							99.648	99.097	7.77	2.2	10.4		7.44	7.1	28.4						
10/02/2016	7.28	0.10	8.6	4.6	4.8	349	195	27	21.1	6.8	2.8	<0.01	<0.01	<0.01		0.65	26	0.18	7		99.256	99.468	7.91	2.1	4.2	3.0	7.52	6.9	22.6	17.0					
10/03/2016	7.09	<0.10	8.6	6.0	4.9	336	192	28	21.6	6.8	2.7	<0.01	<0.01	<0.01		0.66	26	0.16	6		99.093	99.265	7.84	2.4	12.8	8.8	7.45	5.6	20.0	15.8	69.00	<0.05	<0.50	22.00	<0.20
10/04/2016	7.07	<0.10	6.6	3.8	5.1	257	199	21	21.9	6.5	2.8	<0.01	<0.01	<0.01		0.75	29	0.19	7		99.128	99.498	7.83	2.9	7.8	6.0	7.36	5.2	19.4	14.0					
10/05/2016	7.19	<0.10	7.8	7.0	4.0	299	153	18	22.4	6.4	3.1	<0.01	<0.01	<0.01							99.608	99.430	7.78	2.3	6.0	6.0	7.36	3.7	18.6	14.6					
10/06/2016	7.07	0.10	7.8	5.4	2.7	308	107	14	21.0	6.8	2.1	<0.01	<0.01	<0.01							99.679	99.509	7.82	2.0	5.8	4.8	7.31	2.4	17.0	12.8					
10/07/2016	7.14	0.20	8.4		3.9	359	167	52	21.5	5.1	3.7	<0.01	<0.01	<0.01							98.860	99.461	7.78	2.7	7.4		7.34	3.6	17.6						
10/08/2016	7.26	0.00	6.4		3.4	240	128	25	21.5	6.9	2.1	<0.01	<0.01	<0.01							98.528	99.459	7.74	2.8	9.6		7.24	3.3	21.0						
10/09/2016	7.06	0.00	12.0	9.0	4.1	659	225	4	21.9	6.7	1.9	<0.01	<0.01	<0.01		0.69	38	0.13	7		98.202	98.458	7.72	2.2	9.8	7.8	7.28	5.7	39.2	26.8					
10/10/2016	7.18	0.00	7.6	5.2	7.2	268	254	18	19.9	6.3	2.9	<0.01	<0.01	<0.01		0.52	18	0.76	27		98.800	99.207	7.91	8.9	12.6	8.4	7.54	4.2	14.6	11.0					
10/11/2016	7.19	<0.10	9.0	4.8	6.0	346	231	22	19.0	7.0	3.5	<0.01	<0.01	<0.01		0.56	22	0.46	18		98.947	99.308	7.79	7.0	15.4	9.4	7.37	3.2	16.0	9.0					
10/12/2016	7.24	<0.10	9.8	6.8	4.3	355	156	20	19.8	6.6	4.3	<0.01	<0.01	<0.01							99.628	99.447	7.75	2.8	12.6	8.8	7.31	2.9	15.4	9.6					
10/13/2016	7.06	<0.10	6.6	4.4	3.2	254	123	21	20.2	6.3	2.9	<0.01	<0.01	<0.01							99.439	99.607	7.81	2.4	8.8	4.2	7.31	2.8	18.8	12.0					
10/14/2016	7.14	<0.10	9.2	5.6	4.4	338	161	24	20.2	6.9	3.2	<0.01	<0.01	<0.01							99.485	99.563	7.63	3.0	10.4	21.0	7.55	3.8	13.4	9.0					
10/15/2016	6.99	<0.10	12.2	6.0	3.6	450	133	1900	19.6	6.9	2.3	<0.01	<0.01	<0.01							99.294	98.926	7.98	2.7	9.6	4.8	7.63	5.4	16.4	12.0					
10/16/2016	7.01	<0.10	9.2	8.0	6.0	340	222	12	19.7	6.9	2.5	<0.01	<0.01	<0.01		0.43	16	0.16	6		98.974	99.073	7.76	2.8	10.0	7.6	7.18	4.5	18.2	14.6					
10/17/2016	6.93	<0.10	8.6	6.0	6.2	334	240	20	20.5	7.1	2.8	<0.01	<0.01	<0.01		0.49	19	0.14	5		98.992	99.446	7.73	3.2	8.6	5.6	7.22	12.0	18.8	13.0					
10/18/2016	6.94	<0.10	8.0	4.8	4.8	358	215	18	21.1	7.1	2.4	<0.01	<0.01	<0.01		0.51	23	0.15	7		99.158	99.515					7.13	3.8	15.4	11.8					
10/19/2016	7.06	<0.10	8.4	4.0	5.5	319	209	19	21.0	7.2	2.3	<0.01	<0.01	<0.01							98.952	99.358	7.65	4.4	11.6	7.8	7.06	4.7	17.0	12.0					
10/20/2016	7.03	<0.10	8.2	7.2	5.4	310	204	20	20.8	7.1	2.9	<0.01	<0.01	<0.01							98.839	99.239	7.83	6.6	7.8	6.4	6.96	6.3	18.8	16.2					
10/21/2016	7.11	<0.10	79.0	79.2	36.6	6,878	3,187	30	21.0	6.9	2.7	<0.01	<0.01	<0.01							85.814	86.877	7.83	5.3	12.8	11.6	6.95	7.1	27.4	22.4					
10/22/2016	7.01	<0.01	9.8	10.2	9.9	776	784	150	20.3	7.3	5.9	<0.01	<0.01	<0.01							94.975	97.487	7.75	3.5	11.0	10.4	6.81	5.8	17.4	15.0					
10/23/2016	6.75	<0.01	9.0	6.2	4.6	516	264	18	18.8	7.3	1.6	<0.01	<0.01	<0.01		0.20	11	0.05	3		98.743	98.327	7.83	2.8	10.2	7.6	7.66	5.6	16.8	10.8					
10/24/2016	7.24	<0.10	6.8	5.2	4.7	350	242	35	18.9	7.6	2.2	<0.01	<0.01	<0.01		0.20	10	0.08	4		98.881	98.921	7.84	3.0	14.4	5.0	7.74	4.3	16.8	12.4					
10/25/2016	7.30	<0.10	8.4	5.2	4.4	398	208	37	18.7	7.7	2.9	<0.01	<0.01	<0.01		0.24	11	0.11	5		99.054	99.104	7.82	2.9	8.6	6.4	7.63	6.9	17.6	14.6					
10/26/2016	7.29	<0.10	8.6	7.2	4.0	387	180	51	18.2	7.9	2.2	<0.01	<0.01	<0.01							99.671	99.296	7.78	2.8	9.2	6.0	7.66	8.2	22.0	15.4					
10/27/2016	7.14	<0.10	9.4	5.6	5.5	530	310	25	17.9	7.8	2.0	<0.01	<0.01	<0.01							98.254	98.614	7.78	2.3	8.4	5.8	7.55	5.6	21.0	14.0					
10/28/2016	7.13	0.30	8.4		3.0	654	234	1800	16.9	7.5	4.3	<0.01	<0.01	<0.01							99.120	98.272	7.60	2.1	10.8		7.63	3.8	10.0						
10/29/2016	7.16	<0.10	11.5	4.8	3.3	645	185	8	16.5	8.4	1.6	<0.01	<0.01	<0.01							99.120	97.954	7.58	4.9	20.4	12.8	7.66	2.6	9.4	5.0					
10/30/2016	7.10	<0.10	6.4	4.0	4.1	359	230	250	17.7	8.2	1.0	<0.01	<0.01	<0.01							98.660	98.525	7.91	2.8	6.6	4.4	7.82	5.5	14.2	9.6					
10/31/2016	7.35	<0.10	5.6	3.8	4.9	282	247	42	17.9	7.9	2.4	<0.01	<0.01	<0.01							98.693	99.319	7.90	2.8	7.2	5.8	7.80	4.5	16.6	12.2					
MMAVG														MMAVG		0.56																			
Min.	6.8	0.00	6	4	3	240	107	4	16.5	5.1	1			<0.01		0.20	10	0.05	3		85.81	86.88	7.6	2.0	4.2	3.0	6.8	2.4	9.4	5.0	69.0	<0	<0.50	22.0	<0.20
Max.	7.4	0.30	79	79	37	6878	3187	1900	22.4	8.4	6			<0.01		0.75	38	0.76	27		99.68	99.61	8.0	8.9	20.4	21.0	7.8	12.0	39.2	26.8	69.0	<0	<0.50	22.0	<0.20
Total																																			
Average	7.1	<0.09	11	9	6	604	313	32	20.0	7.1	3			<0.01		0.49	21	0.21	9		98.50	98.68	7.8	3.4	10.0	7.5	7.4	5.1	18.6	13.4	69.0	<0	<0.50	22.0	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
10/01/2016	7,840		6,050		11,140		6.10		2,433,600		54,760		1,081	11,640			73		9,050	7,370	7,030	5,840	13,970	10,590	6.63	8.32	2,808,000	2,275,200	93,403	76,064	1,378	12,045	1,153	12,170	62	60
10/02/2016	8,210		6,200		14,100		5.84		2,404,800		57,345		0	0			73		9,950	8,010	7,300	5,990	12,570	10,960	6.64	8.40	2,750,400	2,361,600	102,691	82,669	1,334	12,053	1,080	12,016	60	57
10/03/2016	9,380		7,660		11,930		5.57		2,332,800		65,517		3,620	36,379			65		9,820	8,480	6,980	6,810	11,240	12,150	7.89	6.91	2,808,000	2,275,200	86,694	87,520	3,783	36,084	3,107	33,988	66	61
10/04/2016	8,330		6,590		12,270		6.10		2,332,800		58,183		1,231	12,000			66		9,200	8,340	7,330	6,790	11,810	11,310	8.06	7.01	2,808,000	2,275,200	94,951	86,075	3,301	29,437	2,904	28,054	63	60
10/05/2016	8,670		6,760		10,540		6.20		2,318,400		60,558		3,044	29,823			63		8,810	8,410	6,930	6,630	12,220	10,420	7.25	8.18	2,808,000	2,304,000	90,926	86,798	3,533	30,761	3,151	33,932	60	60
10/06/2016	8,270		6,330		10,520		5.22		2,260,800		57,764		5,817	56,206			64		9,100	8,110	8,980	6,340	13,180	11,380	6.64	7.23	2,808,000	2,332,800	93,919	83,701	4,435	36,078			60	58
10/07/2016	8,970		7,070		12,100		5.21		2,318,400		62,653		1,390	15,000			66		9,270	7,960	7,380	6,510	12,460	11,000	7.27	6.57	2,779,200	2,260,800	95,673	82,153	4,456	35,930	3,489	36,154	64	57
10/08/2016	9,050		6,540		11,250		4.49		2,289,600		63,212		1,904	20,550			62		9,230	7,760	7,590	6,290	12,450	10,290	6.21	6.92	2,851,200	2,318,400	95,261	80,089	3,770	36,276			66	62
10/09/2016	8,140		6,450		11,160		4.67		2,246,400		56,856						69		9,190	7,910	7,360	6,410	12,470	10,910	6.33	6.73	2,793,600	2,361,600	94,848	81,637	3,791	36,451			64	61
10/10/2016	7,940		6,100		11,410		5.77		720,000		55,459						69		8,970	8,200	7,000	6,530	12,850	11,420	6.97	7.17	2,678,400	2,188,800	92,577	84,630	3,053	28,916	2,663	28,595	67	67
10/11/2016	5,170		4,160		9,160		5.41		2,145,600		36,111						58		9,300	8,460	7,230	6,650	12,070	9,970	7.14	7.50	2,707,200	2,174,400	95,983	87,314	3,834	36,046	3,276	35,495	60	56
10/12/2016	7,650	3,330	5,660	2,390	5,960	12,330		8.88	1,337,760	2,275,200	53,433	23,259					26	150	9,540	7,820	7,590	6,350	11,770	11,040	7.61	7.15	2,721,600	2,174,400	98,460	80,708	4,531	43,200	3,826	43,181	68	68
10/13/2016	3,970	3,960	2,980	2,270	5,650	11,540	8.08	5.75	2,016,000	2,448,000	27,729	27,660			4,563	45,750	53	152	9,320	8,110	7,050	6,080	12,000	10,200	7.38	6.90	2,707,200	2,174,400	96,189	83,701					60	62
10/14/2016	4,060	8,490	3,150	6,320	4,520	10,940	7.66	6.34	2,116,800	2,520,000	28,358	59,301			2,676	26,830	59	68	9,320	7,920	7,050	6,110	11,780	10,150	7.21	7.52	2,808,000	2,246,400	96,189	81,740	4,448	43,203	3,747	43,079	64	64
10/15/2016	3,930	9,660	2,310	7,150	4,930	12,190	7.60	6.60	2,001,600	2,491,200	27,450	67,473	510	12,396	1,251	12,303	64	49	10,170	8,670	7,590	6,460	12,930	10,290	7.50	7.80	2,779,200	2,188,800	104,962	89,481	2,599	24,098	2,069	24,113	46	50
10/16/2016	5,400	9,970	4,070	7,210	5,570	11,810	7.10	6.60	2,088,000	2,491,200	37,718	69,638	528	11,358	1,160	11,780	50	57	10,180	9,380	7,650	6,930	12,900	10,520	7.40	7.50	2,721,600	2,217,600	105,065	96,809	2,615	24,250	1,974	23,005	52	51
10/17/2016	4,830	8,490	3,850	6,370	7,250	10,750	6.27	6.18	2,232,000	2,433,600	33,736	59,301	1,438	24,477	2,250	24,657	62	64	8,620	8,310	6,560	6,390	10,540	10,960	7.25	6.96	2,865,600	2,246,400	88,965	85,765	1,203	12,510	1,188	12,604	57	58
10/18/2016	5,190	8,710	3,910	6,310	7,410	10,730	6.65	6.41	2,332,800	2,448,000	36,251	60,837			3,489	36,724	58	68	8,110	8,490	6,020	6,370	10,780	10,970	6.96	7.44	3,110,400	2,404,800	83,701	87,623	4,583	47,659	4,514	47,899	54	59
10/19/2016	5,730	8,610	4,350	6,180	7,300	10,380	6.02	6.09	2,275,200	2,390,400	40,023	60,139			1,424	14,900	66	76	8,370	8,380	6,220	6,170	10,350	10,470	7.15	6.99	2,880,000	2,232,000	86,385	86,488	3,590	36,128	2,159	24,077	61	61
10/20/2016	6,200	8,610	4,770	6,310	8,470	10,560	4.78	6.19	2,304,000	2,505,600	43,305	60,139			2,052	21,473	63	73	8,540	7,750	6,470	5,780	12,180	8,970	7.24	7.53	2,952,000	2,491,200	88,139	79,986	3,680	36,231	1,800	24,056	59	59
10/21/2016	5,960	8,680	4,590	6,350	8,380	10,480	5.00	6.06	2,275,200	2,462,400	41,629	60,628			2,240	24,324	67	70	8,470	7,800	6,330	5,870	10,820	9,860	7.07	7.46	2,851,200	2,145,600	87,417	80,502	2,309	24,091	217	2,415	58	55
10/22/2016	5,550	8,720	4,520	6,660	11,660	10,810	6.00	7.44	2,203,200	2,347,200	38,765	60,907			2,211	24,521	58	69	8,360	7,530	6,510	5,820	13,010	12,510	7.00	7.62	2,692,800	2,332,800	86,281	77,715	2,294	23,934	2,346	24,148	59	54
10/23/2016	7,530	8,420	5,200	6,300	10,390	10,740	6.14	8.16	2,289,600	2,448,000	52,595	58,812			2,125	23,720	52	69	8,240	7,980	6,210	6,000	10,790	12,570	7.89	8.16	2,692,800	2,030,400	85,043	82,360	2,260	22,773	2,530	24,188	55	56
10/24/2016	7,510	9,190	5,730	6,700	12,570	11,940	3.60	8.60	2,361,600	2,390,400	52,455	64,190			2,267	23,975	53	58	9,210	9,000	7,070	6,660	10,840	15,610	8.20	8.00	2,721,600	2,088,000	95,054	92,887	1,812	20,048	2,880	24,507	46	51
10/25/2016	8,000	9,360	6,090	6,780	13,460	11,170	5.80	8.90	2,304,000	2,563,200	55,878	65,377			2,514	27,000	68	82	8,460	9,260	6,830	6,220	10,510	13,300	8.60	8.30	2,808,000	2,217,600	87,314	95,570	2,142	24,673	2,754	24,793	57	63
10/26/2016	7,860	9,190	5,990	6,660	13,180	11,140	5.90	9.30	2,246,400	2,505,600	54,900	64,190	982	8,940	2,743	29,467	57	73	8,060	10,010	5,930	7,340	10,040	14,430	8.90	8.50	2,793,600	2,145,600	83,185	103,311	1,863	24,178	2,734	24,445	47	57
10/27/2016	6,690	7,910	4,820	5,490	12,310	8,960	6.28	9.58	2,260,800	2,563,200	46,728	55,249	3,493	35,440	3,217	36,414	67	82	6,490	9,210	4,540	6,610	7,630	13,370	9.18	8.72	2,779,200	2,044,800	66,982	95,054	1,563	21,713	2,441	22,273	56	64
10/28/2016	5,840	9,170	4,520	6,570	13,800	11,490	7.60	9.80	2,203,200	2,548,800	40,791	64,050	1,426	12,389	1,209	12,614	51	57	6,700	7,110	4,990	5,240	13,780	16,230	9.30	9.50	2,592,000	2,160,000	69,149	73,381	2,224	24,100	2,971	24,335	42	46
10/29/2016	7,050	7,870	5,350	5,710	12,240	9,990	7.10	10.00	2,188,800	2,577,600	49,242	54,970					64	85	6,380	8,840	4,720	6,510	7,910	13,200	9.39	9.36	2,750,400	2,160,000	65,846	91,235					53	74
10/30/2016	7,450	8,410	5,610	6,140	11,980	10,770	6.03	10.00	2,260,800	2,577,600	52,036	58,742	1,210	11,980	1,070	12,358	62	83	6,280	9,400	4,600	6,870	8,160	13,520	9.02	8.67	2,721,600	2,131,200	64,814	97,015	1,649	24,231	2,692	23,870	53	69
10/31/2016	7,870	8,140	5,980	5,910	13,540	10,280	4.21	9.90	2,131,200	2,606,400	54,970	56,856	1,339	12,283	1,032	11,803	66	86	6,180	9,600	4,620	7,160	7,230	13,450	8.53	8.98	2,779,200	2,246,400	63,782	99,079	1,552	24,187	2,683	23,859	52	68
MMAVG																																				
Min.	3,930	3,330	2,310	2,270	4,520	8,960	4	6	720,000	2,275,200	27,450	23,259	0	0	1,032	11,780	26	49	6,180	7,110	4,540	5,240	7,230	8,970	6	7	2,592,000	2,030,400	63,782	73,381	1,203	12,045	217	2,415	42	46
Max.	9,380	9,970	7,660	7,210	14,100	12,330	8	10	2,433,600	2,606,400	65,517	69,638	5,817	56,206	4,563	45,750	73	152	10,180	10,010	8,980	7,340	13,970	16,230	9	10	3,110,400	2,491,200	105,065	103,311	4,583	47,659	4,514	47,899	68	74
Total									67,232,160	49,593,600	1,496,410	1,151,718	29,013	310,861	39,493	420,613											86,328,000	69,206,400	2,754,504	2,679,060	83,585	831,284	66,348	681,251		
Average	6,911	8,245	5,270	5,989	10,198	10,950	6	8	2,168,779	2,479,680	48,271	57,586	1,813	19,429	2,194	23,367	61	79	8,609	8,374	6,634	6,378	11,395	11,678	8	8	2,784,774	2,232,465	88,855	86,421	2,882	28,665	2,552	26,202	58	60

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
11/01/2016	5.71	9.93	2.87	0.00	0.346	0.000	60,333		30.0	18.5	7.78	405	920	19,287	43,812		7.69	5.0	226	185	288	10,762	13,715		
11/02/2016	5.99	10.12	2.82	0.00	0.352	0.000	61,112		60.0	18.5	7.80	450	1054	22,480	52,654		7.69	4.5	205	171	264	10,241	13,189		
11/03/2016	5.91	10.29	2.50	0.01	0.360	0.000	44,815		52.0	18.8	7.83	345	660	17,005	32,531		7.57	7.0	256	215	270	12,618	13,308		
11/04/2016	5.79	9.82	2.65	0.00	0.349	0.000	55,844		52.0	18.9	7.73	312	472	15,066	22,792		7.21	13.0	423		293	20,426	14,149		
11/05/2016	5.42	10.73	2.61	0.00	0.368	0.000	21,879		35.0	17.8	7.70	306	412	13,832	18,624		7.23	15.0	428		240	19,347	10,849		
11/06/2016	5.73	10.15	2.35	0.00	0.339	0.000					7.79	480	342	22,938	16,344		7.46	11.0	328	285	374	15,675	17,873		
11/07/2016	5.27	10.28	0.00	0.00	0.317	0.000	69,177		50.0	18.1	7.82	390	586	17,141	25,756		7.57	10.0	350	290	377	15,383	16,570		
11/08/2016	5.49	9.59	2.44	0.00	0.328	0.000	96,527		54.0	18.4	7.83	354	406	16,208	18,589		7.76	3.0	182	154	276	8,333	12,637		
11/09/2016	5.37	9.92	2.34	0.00	0.333	0.000	65,764		56.0	18.4	7.99	810	422	36,276	18,900		7.91	4.0	198	172	323	8,868	14,466		
11/10/2016	5.19	9.93	2.36	0.00	0.334	0.000	39,108		51.0	17.8	7.81	465	638	20,127	27,616		7.83	3.0	199	154	197	8,614	8,527		
11/11/2016	5.29	9.58	2.50	0.00	0.328	0.000	65,945		52.0	17.6	7.88	131	540	5,780	23,824		7.81	3.0	210		158	9,265	6,971		
11/12/2016	4.98	9.41	2.19	0.00	0.326	0.000	59,299		46.0	17.8	7.82	152	492	6,313	20,434		7.71	4.0	263		179	10,923	7,434		
11/13/2016	5.29	10.12	2.30	0.00	0.331	0.000	4,000		54.0	17.7	7.85	336	454	14,824	20,030		7.78	2.8	166	138	240	7,324	10,588		
11/14/2016	5.37	9.38	2.18	0.00	0.366	0.000	55,084		55.0	18.4	7.92	318	420	14,242	18,810		7.82	2.6	138	109	228	6,180	10,211		
11/15/2016	9.38	28.46	3.02	1.00	0.253	0.491	52,685		43.0	18.4	7.86	420	686	32,856	53,665		7.79	28.0	828	678	510	64,774	39,897		
11/16/2016	6.93	11.42	2.07	0.00	0.238	0.000	58,816		45.0	17.8	7.83	428	346	24,737	19,997		7.87	2.0	151	115	252	8,727	14,565		
11/17/2016	6.41	10.66	3.08	0.00	0.295	0.000	50,009		52.0	17.6	7.78	480	474	25,661	25,340		7.81	1.0	132	110	237	7,057	12,670		
11/18/2016	6.01	10.62	2.45	0.00	0.198	0.000	30,177		64.0	17.1	7.90	381	482	19,097	24,159		7.78	6.0	207	150	236	10,376	11,829		
11/19/2016	5.90	16.30	2.36	0.25	0.153	0.000	19,183		33.0	16.6	7.71	293	428	14,417	21,060		7.63	2.0	142	103	177	6,987	8,709		
11/20/2016	7.21	11.43	3.13	0.20	0.161	0.000			46.0	14.6	7.81	315	452	18,941	27,179		7.80	1.1	110	88	215	6,614	12,928		
11/21/2016	5.84	10.34	2.97	0.00	0.147	0.000	43,192		30.0	16.7	7.87	378	522	18,411	25,424		7.81	1.0	126	101	294	6,137	14,319		
11/22/2016	5.92	9.61	2.80	0.00	0.132	0.000	51,657		28.0	16.6	7.92	495	446	24,440	22,020		7.81	2.0	158	130	317	7,801	15,651		
11/23/2016	5.60	9.83	2.97	0.00	0.248	0.000	59,562		44.0	16.5	7.80	315	474	14,712	22,138		7.52	15.0	442	357	375	20,643	17,514		
11/24/2016	5.58	11.65	2.93	0.10	0.277	0.000	6,702		33.0	16.5	7.76	344	426	16,009	19,825		7.61	10.0	309	239	314	14,380	14,613		
11/25/2016	6.08	12.00	0.01	0.10	0.271	0.000	19,850		38.0	15.7	6.75	197	358	9,989	18,153		6.60	6.0	204	165	180	10,344	9,127		
11/26/2016	5.75	12.40	2.50	0.00	0.289	0.000	33,489		40.0	15.7	7.65	264	488	12,660	23,402		7.59	6.0	200	170	191	9,591	9,159		
11/27/2016	5.78	10.15	2.50	0.00	0.261	0.000	3,722		42.0	15.5	7.86	348	396	16,775	19,089		7.82	7.0	272	230	318	13,112	15,329		
11/28/2016	5.59	10.11	2.76	0.00	0.312	0.000	61,139		31.0	16.5	7.82	441	524	20,560	24,429		7.78	4.5	227	189	348	10,583	16,224		
11/29/2016	7.86	19.20	3.97	0.70	0.305	0.000	5,741		35.0	16.3	7.79	327	480	21,436	31,465		7.83	1.5	171	147	264	11,209	17,306		
11/30/2016	9.29	28.34	4.87	1.50	0.246	0.647	50,571		37.0	15.7	7.88	305	258	23,631	19,989		7.89	2.0	122	95	174	9,452	13,481		
MMAVG	6.47																								
Min.	5.0	9.4	0.0	0.0		0.000	3,722		28.0	14.6	6.75	131	258	5,780	16,344		6.60	1.0	110	88	158	6137	6971		
Max.	9.4	28.5	4.9	1.5		0.647	96,527		64.0	18.9	7.99	810	1054	36,276	53,665		7.91	28.0	828	678	510	64774	39897		
Total	181.9	361.8	76.5	3.9		1.138	1,245,382																		
Average	6.1	12.1	2.6	0.1		0.038	44,478		44.41	17.26	7.78	366	502	18528	25268		7.67	6.1	246	190	270	12725	13794		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
11/01/2016	7.38	<0.10	7.6	4.0	6.0	362	286	22	17.5	8.0	2.3	<0.01	<0.01	<0.01		0.29	14	0.15	7	0.16	98.519	99.174	7.85	3.0	8.6	5.0	7.70	4.0	16.8	11.6					
11/02/2016	7.23	<0.10	7.2	3.4	5.1	360	255	31	17.8	7.8	2.5	<0.01	<0.01	<0.01							98.867	99.317	7.57	3.9	15.0	12.6	7.78	2.8	6.6	5.4					
11/03/2016	7.15	<0.10	5.6	4.4	5.4	276	266	20	18.4	7.2	2.5	<0.01	<0.01	<0.01							98.435	99.152	7.79	2.6	9.6	4.6	7.62	5.7	17.0	11.0					
11/04/2016	7.13	0.20	9.2		7.3	444	353	27	18.2	6.2	3.5	<0.01	<0.01	<0.01							97.660	98.051	7.66	3.1	11.6		7.51	4.3	21.4						
11/05/2016	7.29	<0.10	10.0		2.7	452	122	12	17.6	7.9	2.3	<0.01	<0.01	<0.01							99.118	97.573	7.71	2.8	10.6		7.57	3.2	19.8						
11/06/2016	7.15	<0.10	4.6	3.8	4.3	220	205	0	17.7	7.9	1.8	<0.01	<0.01	<0.01							99.104	98.655	7.76	3.6	2.8	6.2	7.69	4.9	13.4	13.0					
11/07/2016	7.22	<0.10	6.2	4.2	6.7	273	294	8	17.4	7.8	2.3	<0.01	<0.01	<0.01							98.282	98.942	7.83	3.4	7.2	5.4	7.66	3.8	17.2	13.0	38.00	50.00	<0.50	16.00	<0.20
11/08/2016	7.28	<0.10	7.0	4.4	4.5	321	206	23	17.0	7.3	2.6	<0.01	<0.01	<0.01		0.44	20	0.14	6	0.24	98.729	98.276	7.84	3.5	10.4	7.0	7.69	4.1	20.0	14.8					
11/09/2016	7.27	<0.10	7.6	4.6	4.3	340	193	4	17.4	6.6	2.3	<0.01	<0.01	<0.01							99.469	98.199	7.86	3.8	9.8	6.6	7.79	5.3	16.0	12.2					
11/10/2016	7.30	<0.10	9.0	6.4	4.6	390	199	4	17.1	7.5	2.0	<0.01	<0.01	<0.01							99.011	98.589	7.77	4.3	13.0	9.4	7.72	4.2	17.6	12.6					
11/11/2016	7.24	<0.10	10.2		4.2	450	185	2	17.1	6.7	2.1	<0.01	<0.01	<0.01							96.794	98.111	7.78	4.4	9.0		7.71	4.3	20.4						
11/12/2016	7.30	0.00	9.6		3.5	399	145	28	16.4	7.2	2.0	<0.01	<0.01	<0.01							97.697	98.049	7.73	4.4	12.2		7.65	2.8	18.2						
11/13/2016	7.22	0.00	4.4	3.4	4.2	194	185	7	16.4	7.2	1.9	<0.01	<0.01	<0.01							98.750	99.031	7.87	3.3	8.0	5.0	7.66	3.4	20.0	12.2					
11/14/2016	7.32	<0.10	6.2	3.2	4.0	278	179	11	16.6	7.3	2.8	<0.01	<0.01	<0.01							98.742	98.524	7.81	2.7	9.0	5.8	7.59	3.2	34.0	11.2					
11/15/2016	7.23	<0.10	23.4	15.8	20.0	1,831	1,565	5	16.7	8.0	2.6	<0.01	<0.01	<0.01		0.91	71	1.09	85	0.41	95.238	96.589	7.80	4.6	11.0	6.4	7.56	10.5	27.6	18.8					
11/16/2016	7.26	<0.10	9.0	5.4	5.2	520	301	24	16.5	7.7	3.7	<0.01	<0.01	<0.01							98.785	97.399	7.69	4.3	9.0	7.4	7.68	6.7	20.6	14.2					
11/17/2016	7.25	<0.10	7.4	6.6	3.5	396	187	6	16.5	7.8	2.2	<0.01	<0.01	<0.01							99.271	98.439	7.73	2.7	8.6	7.6	7.69	4.3	21.0	16.0					
11/18/2016	7.22	<0.10	10.6	5.4	3.6	531	180	26	16.3	9.2	2.1	<0.01	<0.01	<0.01							99.055	97.801	7.59	3.2	11.2	6.2	8.05	4.0	21.2	13.6					
11/19/2016	7.09	<0.10	6.4	4.0	4.3	315	212	9	16.4	7.9	2.3	<0.01	<0.01	<0.01							98.532	98.505	8.28	2.9	7.8	3.4	8.03	3.4	18.6	13.6					
11/20/2016	6.89	0.20	6.4	4.0	3.9	385	235	40	16.9	6.4	5.5	<0.01	<0.01	<0.01		0.47	28	0.12	7	0.30	98.762	98.584	7.79	3.6	9.0	6.6	7.68	4.5	22.0	17.0					
11/21/2016	7.24	<0.10	7.2	4.4	4.8	351	234	15	15.6	7.9	4.1	<0.01	<0.01	<0.01							98.730	98.621	7.80	3.6	10.2	6.4	7.68	4.7	24.0	16.0					
11/22/2016	7.21	<0.10	7.2	6.0	4.7	355	232	8	15.1	8.1	3.2	<0.01	<0.01	<0.01							99.051	98.386	7.70	4.5	8.6	6.8	7.70	5.6	23.6	18.8					
11/23/2016	7.29	<0.10	10.6	6.2	3.4	495	159	18	15.0	7.9	2.5	<0.01	<0.01	<0.01							98.921	97.764	8.07	2.5	10.0	5.6	8.04	4.5	29.8	19.2					
11/24/2016	7.19	<0.10	8.4	3.4	3.9	391	181	24	15.2	7.5	2.3	<0.01	<0.01	<0.01							98.866	98.028	8.06	2.5	9.0	4.8	8.09	5.3	28.2	18.2					
11/25/2016	7.10	<0.10	6.4	4.6	3.6	325	183	8	15.5	7.6	2.3	<0.01	<0.01	<0.01							98.173	98.212	8.00	2.3	9.8	8.2	8.10	5.4	31.0	21.6					
11/26/2016	6.75	<0.10	7.6	7.4	3.9	364	187	12	15.3	7.0	2.2	<0.01	<0.01	<0.01							98.523	98.443	7.99	3.7	11.6	7.4	8.01	5.9	31.6	24.2					
11/27/2016	7.05	<0.10	8.4	5.4	5.0	405	241	0	15.3	7.2	2.1	<0.01	<0.01	<0.01							98.563	97.879	7.76	3.3	8.2	6.6	7.75	6.3	31.2	22.4					
11/28/2016	7.19	<0.10	7.4	4.0	7.8	345	364	13	15.2	7.6	2.6	<0.01	<0.01	<0.01		0.44	21	0.11	5	0.23	98.231	98.588	7.78	3.0	7.4	5.4	7.71	5.8	27.2	20.8					
11/29/2016	7.23	<0.10	8.6	6.6	7.8	564	511	15	15.1	8.2	2.6	<0.01	<0.01	<0.01							97.615	98.208	7.57	6.0	8.8	7.0	7.55	8.4	32.0	22.8					
11/30/2016	7.08	<0.10	122.8	91.0	27.6	9,514	2,138	15	14.0	8.2	3.2	<0.01	<0.01	<0.01							90.951	52.403	7.60	6.7	9.4	7.4	7.44	52.8	266.0	199.8					
MMAVG													MMAVG			0.56																			
Min.	6.8	0.00	4	3	3	194	122	0	14.0	6.2	2			<0.01		0.29	14	0.11	5	0.16	90.95	52.40	7.6	2.3	2.8	3.4	7.4	2.8	6.6	5.4	38.0	50	<0.50	16.0	<0.20
Max.	7.4	0.20	123	91	28	9514	2138	40	18.4	9.2	6			<0.01		0.91	71	1.09	85	0.41	99.47	99.32	8.3	6.7	15.0	12.6	8.1	52.8	266.0	199.8	38.0	50	<0.50	16.0	<0.20
Total																																			
Average	7.2	<0.10	12	9	6	728	339	11	16.4	7.6	3			<0.01		0.51	31	0.32	22	0.27	98.21	96.78	7.8	3.6	9.5	6.6	7.7	6.5	30.5	22.8	38.0	50	<0.50	16.0	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
11/01/2016	7,960	7,960	6,260	5,920	13,810	9,960	5.87	10.00	2,160,000	2,520,000	55,599	55,599					62	83	5,570	9,260	4,230	6,960	7,370	13,850	9.24	8.81	2,736,000	2,289,600	57,487	95,570					54	62
11/02/2016	8,810	3,890	6,800	2,850	15,750	9,730	5.50	10.00	2,188,800	2,620,800	61,536	27,171	3,019	23,251			49	57	6,330	10,780	4,850	8,010	7,760	15,720	9.10	8.60	2,736,000	2,232,000	65,330	111,258	3,102	24,149	1,532	24,035	47	49
11/03/2016	8,220	8,340	6,440	6,100	13,160	10,270	5.28	9.60	2,304,000	2,606,400	57,415	58,253	5,441	47,726			54	73	5,460	9,640	4,020	7,180	6,740	14,490	9.04	8.26	3,052,800	2,217,600	86,694	99,492	1,432	24,094	2,932	23,967	50	59
11/04/2016	7,710	8,240	5,850	6,010	13,920	10,680	5.48	9.74	2,275,200	2,606,400	53,852	57,554	6,499	59,138			62	79	5,130	9,940	3,790	7,530	15,440	13,960	9.01	8.28	2,707,200	2,246,400	52,945	102,588	445	5,690	620	5,714	54	63
11/05/2016	7,720	8,040	5,830	5,900	13,450	9,670	5.96	9.33	2,160,000	2,560,320	53,922	56,157	1,183	10,679	971	11,389	60	83	4,820	9,780	3,590	7,350	5,690	13,910	9.25	8.07	2,721,600	2,232,000	49,746	100,937	2,829	45,728	5,092	45,252	54	65
11/06/2016	8,150	8,430	6,170	6,010	13,890	9,810	5.46	9.22	2,217,600	2,563,200	56,926	58,881	1,346	12,000	968	12,000	59	78	4,900	10,040	3,640	7,290	6,580	14,420	9.31	7.88	2,793,600	2,016,000	50,572	103,620	1,309	23,862	2,891	24,040	53	65
11/07/2016	8,580	8,530	6,620	6,180	13,370	10,550	5.01	9.59	2,217,600	2,577,600	59,929	59,580	2,818	25,268	13,120	26,003	58	79	4,550	9,770	3,430	7,210	5,460	13,890	7.95	9.54	2,808,000	2,174,400	46,959	100,834	345	6,293	2,783	23,572	51	69
11/08/2016	8,630	8,790	6,630	6,410	13,040	10,430	5.97	9.89	2,534,400	2,793,600	60,278	61,396	2,981	27,072	3,024	27,967	60	79	4,590	9,800	3,480	7,310	5,680	13,610	8.18	9.54	2,937,600	2,260,800	47,372	101,143					55	72
11/09/2016	8,870	8,800	6,850	6,520	14,050	11,140	4.93	9.32	2,563,200	2,851,200	61,955	61,466					61	83	4,550	10,470	3,430	7,810	5,820	14,770	7.73	9.33	2,952,000	2,088,000	46,959	108,058					53	67
11/10/2016	9,950	9,420	7,720	6,930	14,600	11,310	5.15	9.41	2,664,000	2,822,400	69,498	65,796					57	74	5,600	6,240	4,260	4,000	6,240	15,730	7.90	9.37	2,880,000	2,116,800	57,796	64,401			3,938	30,018	41	112
11/11/2016	9,170	8,870	7,580	6,980	13,280	10,440	5.46	9.11	2,678,400	2,692,800	64,050	61,955					62	82	4,720	10,070	3,960	7,880	6,410	12,670	7.71	9.14	2,980,800	2,174,400	48,714	103,930			4,126	35,671	51	70
11/12/2016	8,720	8,520	7,010	6,580	11,420	10,550	5.74	9.61	2,707,200	2,793,600	60,907	59,510					61	81	5,170	9,580	4,180	7,360	6,230	11,710	9.36	8.28	2,966,400	2,059,200	53,358	98,873			2,780	28,468	52	66
11/13/2016	9,020	8,860	6,980	6,440	12,020	10,520	5.33	9.48	2,548,800	2,764,800	63,002	61,885					60	76	5,360	9,620	3,820	6,830	6,980	11,290	9.32	8.13	2,865,600	2,030,400	55,319	99,286					52	57
11/14/2016	9,150	8,890			12,520	10,720	9.23	5.02	2,649,600	2,707,200	63,910	62,094	3,764	36,047	3,170	35,454	66	83	5,390	9,530			6,950	12,390	9.39	7.90	2,923,200	2,217,600	55,629	98,357					50	68
11/15/2016	9,150	8,800	7,400	6,770	13,290	10,730	5.79	9.62	2,606,400	2,707,200	63,910	61,466	4,193	35,762	3,304	36,585	60	80	5,290	9,720	4,310	7,530	6,830	12,700	8.09	9.00	2,865,600	1,987,200	54,597	100,318					51	64
11/16/2016	8,300	8,900	6,710	6,840	15,100	12,090	6.00	9.75	2,779,200	2,692,800	57,973	62,164					49	58	8,440	7,470	6,600	5,940	11,610	11,390	8.78	8.56	2,764,800	2,260,800	87,107	77,096	3,591	36,233	3,507	35,940	85	67
11/17/2016	9,730	8,670	7,930	6,690	15,600	10,580	9.77	5.37	2,678,400	2,577,600	67,962	60,558	4,216	36,702	3,319	36,509	51	77	8,020	7,750	6,300	6,140	9,950	12,290	8.80	8.29	2,808,000	2,088,000	82,772	79,986					50	53
11/18/2016	9,320	8,620	6,990	6,130	15,070	10,400	5.68	10.00	2,620,800	2,649,600	65,098	60,209	5,092	43,361	3,724	43,058	58	84	7,720	8,590	5,550	6,250	9,940	12,460	9.00	8.08	2,793,600	2,073,600	79,676	88,655					54	61
11/19/2016	10,340	9,430	7,940	6,870	15,880	11,060	6.03	9.58	2,592,000	2,649,600	72,222	65,866	5,677	42,862	3,955	42,882	60	82	8,330	9,850	6,230	7,240	10,510	13,110	9.07	8.38	2,851,200	2,275,200	85,972	101,659					52	65
11/20/2016	9,270	9,150	7,210	6,590	16,000	11,090	3.41	9.21	2,577,600	2,620,800	64,749	63,910	5,398	40,454	3,755	40,600	46	71	7,770	9,120	5,880	6,770	12,860	16,130	8.27	6.84	2,779,200	2,030,400	80,192	94,125					43	48
11/21/2016	8,240	7,710	6,280	5,670	12,880	9,380	5.71	9.82	2,649,600	2,851,200	57,554	53,852	5,180	43,012	3,707	43,424	62	86	6,310	9,190	4,680	6,770	8,570	13,470	9.31	8.25	2,779,200	2,304,000	65,124	94,848					59	68
11/22/2016	8,450	7,670	6,480	5,520	13,810	9,650	4.88	10.00	2,606,400	2,822,400	59,021	53,573	4,752	43,185			57	81	8,160	7,690	6,020		6,310	13,190	9.59	8.33	2,721,600	1,987,200	84,217	79,367			6,787	10,450	40	74
11/23/2016	8,730	7,950	6,570	5,700	13,230	8,770	5.72	10.00	2,592,000	2,779,200	60,977	55,529	4,920	42,877			61	88	5,950	9,260	4,410	6,730	7,120	13,340	9.89	8.46	2,851,200	2,174,400	61,408	95,570			4,950	40,320	59	73
11/24/2016	8,830	8,130	6,690	5,820	13,060	9,780	6.35	10.00	2,520,000	2,750,400	61,675	56,786					52	76	5,720	9,620	4,140	7,020	7,380	14,390	9.91	8.23	3,081,600	2,203,200	59,035	99,286			4,785	35,437	52	56
11/25/2016	8,990	8,290	6,810	5,910	12,640	9,370	5.55	9.88	2,577,600	2,779,200	62,793	57,904	5,285	43,023			59	83	5,500	9,970	4,050	7,230	7,250	15,090	9.78	7.72	2,865,600	2,016,000	56,764	102,898			2,193	17,928	56	67
11/26/2016	9,420	8,470	7,290	6,170	13,920	10,250	5.61	9.71	2,476,800	2,750,400	65,796	59,161	5,102	43,435			52	67	5,860	10,250	4,310	7,520	7,670	14,110	9.69	7.83	2,937,600	2,217,600	60,480	105,788			5,121	42,517	46	52
11/27/2016	9,270	8,530	7,290	6,440	13,310	10,300	6.00	9.72	2,491,200	2,750,400	64,749	59,580	4,907	43,214			49	61	5,560	6,180	4,210	4,490	14,650	9,930	9.75	7.86	2,880,000	2,088,000	57,383	63,782			4,405	42,615	47	83
11/28/2016	9,140	8,750			12,760	10,490	4.95	9.68	2,635,200	2,851,200	63,841	61,117					55	75	5,560	9,840			7,240	14,320	9.80	7.95	2,995,200	1,944,000	57,383	101,556			2,084	25,165	54	61
11/29/2016	9,160	8,760	7,040	6,260	13,500	10,200	5.59	10.00	2,606,400	2,865,600	63,980	61,186	4,916	43,329	3,647	43,401	62	88	5,990	10,300	4,480	7,580	7,560	14,930	9.72	9.61	2,923,200	2,116,800	61,821	106,304					50	71
11/30/2016	9,120	9,420	7,150	6,960	14,430	10,990	6.20	10.00	2,664,000	2,894,400	63,701	65,796	4,774	43,364	387	5,028	49	70	6,520	11,370	4,910	8,460	8,930	15,910	9.30	9.20	2,923,200	2,059,200	67,291	117,347			2,065	15,552	43	56
MMAVG																																				
Min.	7,710	3,890	5,830	2,850	11,420	8,770	3	5	2,160,000	2,520,000	53,852	27,171	1,183	10,679	387	5,028	46	57	4,550	6,180	3,430	4,000	5,460	9,930	8	7	2,707,200	1,944,000	46,959	63,782	345	5,690	620	5,714	40	48
Max.	10,340	9,430	7,940	6,980	16,000	12,090	10	10	2,779,200	2,894,400	72,222	65,866	6,499	59,138	13,120	43,424	66	88	8,440	11,370	6,600	8,460	15,440	16,130	10	10	3,081,600	2,304,000	87,107	117,347	3,591	45,728	6,787	45,252	85	112
Total									75,542,400	81,472,320	1,858,780	1,765,954	91,463	785,761	47,051	404,300											85,881,600	64,180,800	1,845,759	2,896,932	13,053	166,049	62,591	506,661		
Average	8,871	8,428	6,876	6,185	13,759	10,364	6	9	2,518,080	2,715,744	61,959	58,865	4,355	37,417	3,619	31,100	57	77	5,961	9,356	4,527	6,977	8,124	13,639	9	8	2,862,720	2,139,360	61,525	96,564	1,865	23,721	3,477	28,148	52	65

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Merchant Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
12/01/2016	15.64	28.35	4.88	0.00	0.234	0.000	75,036		54.0	14.3	7.77	320	286	41,740	37,305		7.81	1.5	110	89	150	14,348	19,566		
12/02/2016	9.79	13.31	5.54	0.00	0.264	0.000	59,276		48.0	15.1	7.90	199	304	16,248	24,821		7.87	2.0	132	103	132	10,778	10,778		
12/03/2016	8.66	13.44	5.12	0.00	0.262	0.000	36,925		36.0	13.9	7.69	174	312	12,567	22,534		7.67	1.8	118	94	173	8,522	12,495		
12/04/2016	7.93	12.50	4.68	0.10	0.256	0.000			26.0	14.6	7.85	276	236	18,254	15,608		7.88	1.5	119	97	198	7,870	13,095		
12/05/2016	7.70	12.17	4.76	0.10	0.327	0.000	35,111		25.0	14.6	7.68	420	442	26,972	28,384		7.78	2.1	131	116	210	8,413	13,486		
12/06/2016	7.50	11.81	4.45	0.20	0.314	0.000	36,205		31.0	14.5	7.79	336	348	21,017	21,767		7.80	1.9	141	123	210	8,820	13,136		
12/07/2016	7.69	12.71	4.49	0.00	0.242	0.000	41,003		32.0	14.2	7.73	447	358	28,668	22,960		7.75	3.0	148	125	227	9,492	14,559		
12/08/2016	7.67	14.17	4.07	0.00	0.210	0.000	60,915		40.0	14.5	7.73	302	364	19,318	23,284		7.64	26.0	600	479	396	38,381	25,331		
12/09/2016	6.65	11.62	3.86	0.00	0.218	0.000	46,619		35.0	14.2	7.32	390	526	21,630	29,172		7.33	8.0	301		282	16,694	15,640		
12/10/2016	6.44	11.03	4.39	0.00	0.408	0.000	36,677		20.0	13.8	7.40	362	336	19,443	18,046		7.36	13.0	381		353	20,463	18,959		
12/11/2016	6.48	1.65	4.19	0.30	0.221	0.000	2,966		12.0	13.7	7.59	306	330	16,537	17,834		7.64	5.2	178	151	252	9,620	13,619		
12/12/2016	7.05	10.97	0.00	0.20	0.357	0.000	10,030		28.0	13.8	7.57	342	392	20,109	23,048		7.62	4.1	142	123	206	8,349	12,112		
12/13/2016	6.53	10.18	3.40	0.00	0.193	0.000	27,564		23.0	14.1	7.76	353	418	19,224	22,764		7.73	2.3	126	107	198	6,862	10,783		
12/14/2016	6.07	9.92	3.75	0.00	0.441	0.000	39,998		29.0	14.0	7.75	521	378	26,375	19,136		7.80	2.5	143	123	212	7,239	10,732		
12/15/2016	5.75	9.15	3.50	0.00	0.120	0.000	28,440		23.0	14.1	7.71	660	308	31,650	14,770		7.79	1.2	110	92	231	5,275	11,078		
12/16/2016	5.67	9.98	3.45		0.053	0.000	12,564		9.0	13.7							7.71	0.7	106		113	5,013	5,344		
12/17/2016	5.26	10.34	3.03	0.25	0.074	0.000			22.0	13.9	7.57	164	430	7,194	18,863		7.61	0.6	114	87	137	5,001	6,010		
12/18/2016	9.61	19.80	4.55	0.20	0.069	0.000			53.0	14.0	7.43	336	436	26,930	34,944		7.54	1.0	112	85	197	8,977	15,789		
12/19/2016	6.86	12.04	4.34	0.00	0.091	0.000	32,604		19.0	14.1	7.84	288	290	16,477	16,592		7.78	1.0	97	80	206	5,550	11,786		
12/20/2016	6.77	10.92	4.11	0.00	0.176	0.000	34,992		8.0	12.8	7.81	312	330	17,616	18,632		7.80	2.5	94	69	239	5,307	13,494		
12/21/2016	6.48	10.88	3.68	0.00	0.191	0.000	9,331		18.0	12.7	7.63	476	202	25,725	10,917		7.69	1.0	87	81	224	4,702	12,106		
12/22/2016	6.33	10.77	3.67	0.00	0.192	0.000	37,180		34.0	13.2	7.77	470	366	24,812	19,322		7.80	1.0	100	88	227	5,279	11,984		
12/23/2016	6.24	10.45	3.45	0.00	0.189	0.000	31,158		44.0	13.0	7.76	441	412	22,950	21,441		7.65	4.0	118	101	234	6,141	12,178		
12/24/2016	9.08	25.93	4.45	0.50	0.198	0.225			42.0	13.5	7.67	216	318	16,357	24,081		7.61	2.0	83	62	150	6,285	11,359		
12/25/2016	6.49	25.93	4.45	0.00	0.179	0.000	3,012		23.0	12.3	6.66	405	156	21,921	8,444		6.65	2.0	99	80	211	5,359	11,421		
12/26/2016	6.56	11.70	4.41	0.01	0.193	0.000	46,409		30.0	12.4	7.73	207	242	11,325	13,240		7.70	5.5	167	156	165	9,137	9,027		
12/27/2016	8.11	12.18	5.03	0.00	0.209	0.000	11,028		55.0	12.2	7.73	422	440	28,543	29,760		7.66	9.5	195	167	264	13,189	17,856		
12/28/2016	7.27	11.88	4.88	0.00	0.251	0.000	34,892		37.0	12.2							7.78	5.0	149	130	203	9,034	12,308		
12/29/2016	6.89	11.12	4.71	0.00	0.221	0.000	12,963		29.0	12.4	7.35	480	484	27,582	27,812		7.69	2.5	129	102	183	7,413	10,516		
12/30/2016	7.10	10.92	4.32	0.00	0.213	0.000	14,322		37.0	12.2	6.76	170	219	10,066	12,968		7.20	5.0	153	131	162	9,060	9,593		
12/31/2016	6.56	11.86	4.77	0.00	0.173	0.000	7,550		35.0	11.8	6.70	227	308	12,419	16,851		6.77	2.0	105	84	135	5,745	7,386		
MMAVG	6.52																								
Min.	5.3	1.7	0.0	0.0		0.000	2,966		8.0	11.8	6.66	164	156	7,194	8,444		6.65	0.6	83	62	113	4702	5344		
Max.	15.6	28.4	5.5	0.5		0.225	75,036		55.0	15.1	7.90	660	526	41,740	37,305		7.88	26.0	600	479	396	38381	25331		
Total	228.8	399.7	128.4	1.9		0.225	824,770																		
Average	7.4	12.9	4.1	0.1		0.007	30,547		30.87	13.54	7.57	346	344	21023	21217		7.62	3.9	154	119	209	9430	12694		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
12/01/2016	6.90	0.30	8.6	7.0	5.2	1,122	678	12	12.8	7.2	4.2	<0.01	<0.01	<0.01							98.375	96.993	7.54	4.1	9.6	7.6	7.69	8.1	32.0	25.0					
12/02/2016	7.15	<0.10	8.0	6.4	6.0	653	490	10	13.7	8.4	3.0	<0.01	<0.01	<0.01							96.985	97.368	7.63	9.3	9.8	5.4	7.74	7.0	25.4	19.0					
12/03/2016	7.10	<0.10	6.7	5.3	3.7	484	267	39	13.9	8.3	1.6	<0.01	<0.01	<0.01							97.874	97.853	7.59	3.5	7.8	6.2	7.74	4.7	22.8	16.6					
12/04/2016	7.05	<0.10	8.0	4.2	3.9	529	258	6	14.1	8.5	1.9	<0.01	<0.01	<0.01							98.587	96.610	7.71	3.5	7.8	4.4	7.67	5.9	22.2	16.6					
12/05/2016	7.12	0.20	9.0	5.8	6.2	578	398	13	13.9	8.6	4.1	<0.01	<0.01	<0.01		0.30	19	0.42	27	0.10	98.524	97.964	7.63	6.6	11.0	8.4	7.62	5.4	20.0	14.4					
12/06/2016	7.07	0.10	9.4	7.0	4.9	588	306	9	13.8	8.5	3.8	<0.01	<0.01	<0.01							98.542	97.299	7.67	4.5	9.2	8.0	7.64	4.8	19.8	13.0	42.00	65.00	<0.50	21.00	<0.20
12/07/2016	7.12	0.20	8.6	7.0	5.4	552	346	10	14.1	8.4	3.5	<0.01	<0.01	<0.01							98.792	97.598	7.57	5.9	11.2	9.2	7.54	6.2	21.6	16.6					
12/08/2016	7.06	<0.10	10.2	7.8	4.1	652	262	10	14.0	8.3	3.6	<0.01	<0.01	<0.01							98.642	97.198	7.58	4.8	10.8	7.4	7.72	4.7	21.8	17.4					
12/09/2016	7.07	<0.10	6.4		4.5	355	250	7	13.4	8.3	2.6	<0.01	<0.01	<0.01							98.846	98.783	7.83	5.2	12.6		7.58	3.0	21.6						
12/10/2016	7.09	0.10	9.8		3.2	526	172	0	12.8	8.8	3.3	<0.01	<0.01	<0.01							99.116	97.083	7.07	4.6	16.0		7.48	5.2	24.4						
12/11/2016	7.02	0.20	6.4	3.8	3.7	346	200	9	12.6	8.8	3.7	<0.01	<0.01	<0.01							98.791	98.061	7.57	3.7	9.6	8.2	7.48	4.7	21.4	15.4					
12/12/2016	7.02	<0.10	8.8	4.8	5.5	517	323	23	12.8	8.4	3.7	<0.01	<0.01	<0.01		0.28	16	0.19	11	0.12	98.392	97.755	7.59	3.5	7.8	4.0	7.48	4.6	21.0	13.2					
12/13/2016	6.97	<0.10	8.2	4.2	4.3	447	234	10	12.9	8.5	3.1	<0.01	<0.01	<0.01							98.782	98.038	7.55	2.9	9.6	7.2	7.37	4.9	21.2	15.0					
12/14/2016	6.93	<0.10	9.4	5.6	4.6	476	233	8	13.3	8.3	3.0	<0.01	<0.01	<0.01							99.117	97.513	7.52	4.1	10.8	8.2	7.50	5.8	23.8	17.6					
12/15/2016	6.90	<0.10	8.4	6.2	4.6	403	221	1	12.8	8.4	2.5	<0.01	<0.01	<0.01							99.303	97.273	7.50	4.3	14.4	12.6	7.48	5.9	25.8	19.6					
12/16/2016	6.94	<0.10	11.0		4.1	520	194	3	11.7	8.9	2.7	<0.01	<0.01	<0.01									7.48	3.6	19.4		7.45	5.3	29.6						
12/17/2016	6.99	0.00	9.8	7.0	4.2	430	184	3	11.7	8.9	3.4	<0.01	<0.01	<0.01							97.439	97.721	7.42	2.8	12.0	8.4	7.39	5.0	27.8	19.6					
12/18/2016	6.83	0.00	58.8	42.8	16.1	4,713	1,290	1	12.5	8.5	2.3	<0.01	<0.01	<0.01							95.208	86.514	7.50	3.1	10.8	6.6	7.24	23.2	124.0	90.0					
12/19/2016	6.78	0.30	11.4	7.8	5.8	652	332	19	11.1	9.3	6.3	<0.01	<0.01	<0.01		0.40	23	0.14	8	0.23	97.986	96.069	7.48	3.4	11.2	8.4	7.47	6.3	27.4	20.6					
12/20/2016	7.07	<0.10	9.0	4.8	6.3	508	356	11	11.2	9.3	4.9	<0.01	<0.01	<0.01							97.981	97.273	7.60	3.2	9.8	7.8	7.57	6.0	24.0	17.6					
12/21/2016	7.01	0.10	7.0	6.0	6.0	378	324	10	11.7	8.9	3.1	<0.01	<0.01	<0.01							98.739	96.535	7.51	5.1	9.4	8.8	7.59	5.9	18.8	15.8					
12/22/2016	6.86	<0.10	7.6	5.6	6.4	401	338	34	12.1	8.8	3.2	<0.01	<0.01	<0.01							98.638	97.923	7.51	4.4	10.0	8.4	7.49	5.9	19.8	16.6					
12/23/2016	6.87	<0.10	8.2	7.0	6.1	427	317	13	12.1	8.9	2.9	<0.01	<0.01	<0.01							98.617	98.010	8.06	4.9	10.0	6.6	7.83	5.3	17.6	13.0					
12/24/2016	6.74	<0.10	16.4	11.2	10.2	1,242	772	7	12.3	8.7	2.6	<0.01	<0.01	<0.01							95.278	94.843	8.06	4.7	8.8	6.6	7.75	6.2	19.8	14.4					
12/25/2016	6.94	<0.10	9.6	7.8	3.9	520	211	22	11.6	9.1	3.0	<0.01	<0.01	<0.01							99.037	93.846	8.00	3.1	12.2	8.2	7.73	4.2	18.2	13.6					
12/26/2016	7.30	<0.10	8.0	8.4	3.3	438	181	7	11.3	9.3	2.8	<0.01	<0.01	<0.01		0.25	14	0.08	4	0.24	98.406	96.694	7.55	2.0	7.6	5.0	7.56	3.5	17.4	15.4					
12/27/2016	6.84	<0.10	7.8	6.4	4.5	528	304	17	12.0	8.9	2.7	<0.01	<0.01	<0.01							98.934	98.227	7.45	3.9	9.2	7.4	7.43	4.0	15.0	11.6					
12/28/2016	6.84	<0.10	6.8	6.8	3.5	412	212	6	11.8	8.8	2.4	<0.01	<0.01	<0.01									7.47	3.6	7.2	7.0	7.43	4.4	15.4	13.0					
12/29/2016	6.77	<0.10	10.6	8.4	5.2	609	299	10	11.7	8.9	3.5	<0.01	<0.01	<0.01							98.917	97.810	7.44	3.5	11.4	8.8	7.45	4.7	22.4	16.8					
12/30/2016	6.83	<0.10	9.6	7.8	3.4	568	201	12	11.3	8.8	2.8	<0.01	<0.01	<0.01							98.000	95.616	7.59	2.8	10.2	7.2	7.45	3.9	21.0	14.6					
12/31/2016	6.61	<0.10	9.4	7.6	3.5	514	191	16	11.0	9.0	4.0	<0.01	<0.01	<0.01							98.458	96.948	7.62	3.0	10.0	7.4	7.39	4.3	21.0	14.8					
MMAVG														MMAVG		0.56																			
Min.	6.6	0.00	6	4	3	346	172	0	11.0	7.2	2			<0.01		0.25	14	0.08	4	0.10	95.21	86.51	7.1	2.0	7.2	4.0	7.2	3.0	15.0	11.6	42.0	65	<0.50	21.0	<0.20
Max.	7.3	0.30	59	43	16	4713	1290	39	14.1	9.3	6			<0.01		0.40	23	0.42	27	0.24	99.30	98.78	8.1	9.3	19.4	12.6	7.8	23.2	124.0	90.0	42.0	65	<0.50	21.0	<0.20
Total																																			
Average	7.0	<0.12	11	8	5	680	334	9	12.5	8.7	3			<0.01		0.31	18	0.21	13	0.17	98.29	96.81	7.6	4.1	10.6	7.5	7.5	5.8	25.3	18.8	42.0	65	<0.50	21.0	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
12/01/2016	6,580	9,530	5,100	6,920	15,050	10,660	9.10	10.00	2,563,200	2,808,000	45,960	66,565	5,199	43,200			46	76	5,990	5,730	3,740	4,340	12,950	17,060	10.00	10.00	2,908,800	2,116,800	61,821	59,138			3,364	25,340	45	45
12/02/2016	7,780	9,280	5,990	6,780	16,260	11,340	6.91	10.00	2,606,400	2,894,400	54,341	64,818	1,589	14,460	1,161	14,480	49	86	6,390	9,270	4,770	6,930	10,720	16,580	9.40	9.58	2,822,400	2,361,600	65,950	95,673	3,218	36,160	4,644	36,275	55	70
12/03/2016	6,690	8,670	5,210	6,350	13,900	10,430	6.91	10.00	2,563,200	2,822,400	46,728	60,558	2,406	21,885	1,678	20,942	55	89	5,650	9,640	4,340	7,260	8,220	14,570	9.40	9.58	3,096,000	2,390,400	86,694	99,492					55	67
12/04/2016	8,520	8,530	6,650	6,200	13,850	9,730	6.72	10.00	2,476,800	2,836,800	59,510	59,580					61	89	5,360	9,920	4,060	7,430	8,400	15,000	9.50	8.92	2,836,800	2,217,600	55,319	102,382					58	70
12/05/2016	3,230	8,440	2,620	6,150	17,850	10,210	9.29	10.00	2,736,000	2,764,800	22,561	58,951	3,594	35,957	469	5,557	50	81	5,620	10,090	4,150	7,460	8,160	15,470	9.34	8.67	2,736,000	2,203,200	58,003	104,136	2,516	35,921	771	6,266	52	60
12/06/2016	7,710	8,310	6,110	6,170	13,940	9,900	6.57	10.00	2,232,000	2,880,000	53,852	58,043	1,267	15,000	6,888	54,847	49	78	5,310	9,790	3,950	7,240	7,820	15,280	9.52	8.80	2,952,000	2,246,400	54,803	101,040			6,722	54,984	47	59
12/07/2016	10,950	7,570	8,660	5,950	14,480	7,720	5.70	10.00	2,476,800	2,793,600	76,483	52,875	2,448	21,059	469	10,333	39	56	5,240	10,060	4,020	7,520	8,240	14,800	9.43	8.55	2,908,800	2,289,600	54,081	103,827			6,214	49,736	55	66
12/08/2016	7,540		6,030		13,430		5.32	10.00	2,563,200		52,665						53		5,520	9,620	4,240	7,140	7,920	15,100	9.31	8.52	2,980,800	2,289,600	56,971	99,286			8,641	69,516	45	59
12/09/2016	8,210	7,570	6,420	5,500	14,210	9,240	6.01	10.00	2,476,800	2,894,400	57,345	52,875	2,424	26,244	2,018	26,440	55	66	5,950	9,880	4,550	7,330	8,120	14,530	9.13	8.61	2,937,600	2,318,400	61,408	101,969			2,927	22,909	50	63
12/10/2016	9,140	7,490	7,130	5,480	13,410	9,330	7.26	10.00	2,606,400	2,836,800	63,841	52,316					66	80	6,160	8,560	4,760	6,100	10,520	13,340	9.46	10.00	2,908,800	2,390,400	63,576	88,346					58	85
12/11/2016	8,980	7,550	6,800	5,410	13,870	10,730	6.94	10.00	2,433,600	2,880,000	62,723	52,735					64	80	6,490	10,620	4,780	7,770	9,220	13,430	9.33	10.00	2,822,400	2,376,000	66,982	109,606					57	65
12/12/2016	9,080	8,860	7,190	6,090	13,320	10,150	5.95	10.00	2,577,600	2,880,000	63,422	61,885	4,609	48,390	4,307	48,950	72	82	6,620	9,900	5,150	7,520	9,400	14,520	9.65	8.94	3,038,400	2,275,200	68,323	102,175					65	76
12/13/2016	9,090	8,620	7,100	6,690	14,270	9,590	6.81	10.00	2,520,000	2,937,600	63,491	60,209	2,097	23,351	1,871	21,537	67	70	6,780	10,250	5,160	7,660	9,190	14,620	10.00	9.00	2,880,000	2,217,600	69,975	105,788					58	73
12/14/2016	9,150	7,630	7,220	5,700	14,020	9,550	5.61	10.00	2,592,000	2,952,000	63,910	53,294	4,475	35,724			73	94	6,640	10,830	3,540	9,290	8,920	12,680	9.01	9.55	2,908,800	2,433,600	68,530	111,774			1,826	17,270	62	74
12/15/2016	9,850	8,360	7,860	6,270	15,590	10,880	6.55	10.00	2,520,000	2,894,400	68,800	58,393	5,106	43,557			63	80	7,390	10,690	5,640	8,030	16,020	9,900	9.85	9.24	2,908,800	2,347,200	76,270	110,329			4,928	43,033	51	70
12/16/2016	9,110	8,250	7,100	6,110	14,260	10,240	7.32	10.00	2,462,400	2,880,000	63,631	57,624	4,953	42,758			70	85	6,590	10,020	5,060	7,440	8,700	14,300	10.00	10.00	2,908,800	2,232,000	68,014	103,414			4,539	36,782	56	78
12/17/2016	9,200	7,520	7,240	5,700	13,100	9,710	7.32	10.00	2,548,800	2,923,200	64,260	52,525					62	81	6,250	9,510	4,910	7,360	8,550	13,550	10.00	10.00	2,793,600	2,217,600	64,505	98,150			3,011	25,141	56	73
12/18/2016	9,350	7,870	7,290	5,840	13,690	9,920	6.56	10.00	2,592,000	2,966,400	65,307	54,970	4,032	36,103			59	76	6,560	10,040	4,920	7,480	8,850	13,010	9.54	10.00	2,966,400	2,390,400	67,704	103,620					55	72
12/19/2016	8,300	8,040	6,370	5,990	14,440	10,280	8.23	10.00	2,894,400	2,707,200	57,973	56,157	2,168	18,000			54	75	9,500	6,610	7,090	5,000	8,960	14,620	10.00	10.00	2,851,200	2,145,600	98,047	68,220			4,498	39,042	37	88
12/20/2016	7,780	7,900	6,200	6,080	14,140	10,560	8.74	10.00	2,548,800	2,952,000	54,341	55,180	3,775	35,874			64	94	6,450	9,400	4,900	7,040	9,120	14,550	10.00	10.00	2,881,440	2,236,320	66,569	97,015			5,374	43,205	65	79
12/21/2016	8,430	8,510	6,480	6,360	10,710	13,480	10.00	8.21	2,664,000	2,952,000	58,881	59,440	4,323	42,336			59	76	6,750	9,880	5,240	7,420	10,220	14,710	10.00	10.00	3,024,000	2,131,200	69,665	101,969			5,052	42,274	59	71
12/22/2016	8,940	8,650	7,130	6,560	13,350	11,010	10.00	7.30	2,592,000	2,937,600	62,444	60,418	4,690	39,982	1,574	15,000	63	81	6,750	9,650	5,170	7,230	9,020	13,560	9.86	10.00	2,836,800	2,304,000	69,665	99,595	2,930	36,085	4,150	35,790	59	78
12/23/2016	8,690	8,430	6,770	6,370	14,300	8,780	8.28	10.00	2,505,600	2,937,600	60,697	58,881	14,754	38,166	2,181	20,785	63	88	6,440	9,720	4,830	7,430	12,700	8,780	9.97	10.00	2,880,000	2,014,560	66,466	100,318			4,997	42,329	61	79
12/24/2016	9,680	9,080	7,490	9,080	15,750	11,840	7.80	9.60	2,476,800	2,937,600	67,612	63,422	3,209	25,057			52	55	7,610	10,950	5,820	8,200	9,770	14,580	7.90	9.80	2,894,400	2,217,600	78,541	113,012					39	49
12/25/2016	9,760	9,270	7,710	7,200	16,610	12,190	8.00	10.00	2,476,800	2,966,400	68,171	64,749					72	91	7,020	10,600	5,490	8,050	10,160	14,490	8.30	10.00	2,793,600	2,304,000	72,452	109,400					60	79
12/26/2016	8,490	8,390	6,610	6,280	14,240	10,190	8.55	10.00	2,548,800	2,966,400	59,301	58,602	22,185	34,277	3,416	35,724	64	81	5,960	9,630	4,750	7,210	8,880	13,460	10.00	8.63	2,865,600	2,275,200	61,512	99,389	1,035	12,005	1,444	11,831	67	75
12/27/2016	8,010	8,410	6,290	6,400	14,070	10,790	6.93	9.52	2,491,200	2,923,200	55,948	58,742	5,199	42,980			85	56	6,200	10,060	4,730	7,610	9,440	14,420	9.41	7.62	2,865,600	2,304,000	63,989	103,827	2,080	24,119	4,463	37,111	57	73
12/28/2016	7,910	8,350	6,310	6,270	13,780	10,450	8.29	10.00	2,520,000	2,966,400	55,249	58,323			0	0	59	75	6,220	9,130	4,770	6,870	8,690	13,280	9.86	7.95	2,952,000	2,203,200	64,195	94,228			3,540	30,210	58	72
12/29/2016	8,470	8,520	6,570	6,350	13,740	10,940	8.24	10.00	2,448,000	2,995,200	59,161	59,510	4,894	42,987			60	79	6,480	9,320	4,900	6,950	9,060	14,530	10.00	8.02	2,894,400	2,073,600	66,878	96,189					56	75
12/30/2016	8,650	8,270	6,890	6,230	14,910	10,640	8.00	9.86	2,505,600	2,851,200	60,418	57,764	6,081	49,220	4,626	50,015	65	85	6,370	9,420	4,970	7,150	9,290	14,100	9.85	7.79	2,865,600	2,059,200	65,743	97,221					60	78
12/31/2016	8,900	8,080	7,080	6,170	14,710	10,310	6.37	10.00	2,448,000	2,822,400	62,164	56,437	2,594	21,245	1,957	21,987	52	63	6,340	9,400	4,950	7,210	9,250	12,180	10.00	9.60	2,966,400	2,145,600	65,434	97,015					55	61
MMAVG																																				
Min.	3,230	7,490	2,620	5,410	10,710	7,720	5	7	2,232,000	2,707,200	22,561	52,316	1,267	14,460	0	0	39	55	5,240	5,730	3,540	4,340	7,820	8,780	8	8	2,736,000	2,014,560	54,081	59,138	1,035	12,005	771	6,266	37	45
Max.	10,950	9,530	8,660	9,080	17,850	13,480	10	10	2,894,400	2,995,200	76,483	66,565	22,185	49,220	6,888	54,847	85	94	9,500	10,950	7,090	9,290	16,020	17,060	10	10	3,096,000	2,433,600	98,047	113,012	3,218	36,160	8,641	69,516	67	88
Total									78,667,200	86,760,000	1,831,190	1,745,841	118,071	797,812	32,615	346,597											89,886,240	69,727,680	2,049,703	3,077,543	11,779	144,290	81,105	669,044		
Average	8,457	8,332	6,633	6,288	14,298	10,360	7	10	2,537,652	2,892,000	59,071	58,195	4,920	33,242	2,330	24,757	60	78	6,406	9,619	4,818	7,247	9,499	14,032	10	9	2,899,556	2,249,280	66,119	99,276	2,356	28,858	4,269	35,213	55	70

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
01/01/2017	7.23	11.76	4.13		0.211	0.000			35.0	11.6	6.85	120	113	7,236	6,814		7.26	6.0	148	123	140	8,924	8,442		
01/02/2017	7.06	12.55	4.18	0.01	0.160	0.000	9,746		25.0	11.8	8.02	194	206	11,423	12,129		7.78	3.0	276	240	264	16,251	15,544		
01/03/2017	11.20	26.70	6.44	0.90	0.155	0.692	27,583		33.0	11.9	7.51	356	290	33,253	27,088		7.72	7.5	186	142	198	17,374	18,495		
01/04/2017	14.75	15.27	6.32	0.00	0.099	0.000	16,252		36.0	10.8	7.69	234	248	28,786	30,508		7.80	2.3	94	72	138	11,563	16,976		
01/05/2017	10.80	14.81	6.45	0.01	0.102	0.000	9,319		22.0	10.6	7.72	123	138	11,079	12,430		7.78	0.9	76	54	84	6,845	7,566		
01/06/2017	9.58	13.38	6.34	0.00	0.115	0.000	7,737		23.0	10.9	7.77	132	256	10,546	20,454		7.79	2.2	99	77	180	7,910	14,381		
01/07/2017	8.47	12.54	5.70		0.102	0.000	5,499		21.0	11.3	7.86	204	188	14,411	13,280		7.74	1.5	87	65	120	6,146	8,477		
01/08/2017	8.22	13.92	5.74	0.00	0.127	0.000			6.0	10.8	7.83	255	202	17,481	13,848		7.71	2.5	78	56	159	5,347	10,900		
01/09/2017	7.74	12.18	5.46	0.00	0.118	0.000	7,242		10.0	11.5	7.53	318	270	20,527	17,429		7.67	0.8	74	62	170	4,777	10,974		
01/10/2017	7.50	20.32	5.30	0.22	0.121	0.000	22,029		15.0	10.7	7.53	324	376	20,266	23,519		7.59	0.8	90	75	183	5,630	11,447		
01/11/2017	10.43	14.19	6.98	0.13	0.121	0.000	5,280		37.0	8.2	7.65	252	254	21,921	22,094		7.62	1.0	99	76	177	8,612	15,397		
01/12/2017	10.92	14.55	7.45	0.10	0.128	0.000	24,329		43.0	10.0	7.78	240	320	21,857	29,143		7.71	1.2	126	108	137	11,475	12,477		
01/13/2017	10.37	13.27	6.71		0.124	0.000	20,737		33.0	11.1	7.56	186	274	16,086	23,697		7.45	3.0	143		131	12,367	11,330		
01/14/2017	9.10	13.60	6.39	0.00	0.124	0.000	8,862		19.0	10.9	7.70	194	254	14,723	19,277		7.64	4.0	127		113	9,639	8,576		
01/15/2017	8.62	13.86	5.83	0.00	0.111	0.000			20.0	10.1	7.64	510	238	36,664	17,110		7.65	1.5	107	90	122	7,692	8,771		
01/16/2017	8.41	13.18	5.43	0.00	0.127	0.000	31,785		23.0	10.4	7.68	306	294	21,463	20,621		7.60	0.7	110	95	167	7,715	11,713		
01/17/2017	8.22	12.05	5.26	0.48	0.121	0.000	54,446		22.0	11.0	7.69	347	420	23,789	28,793		7.70	3.5	147	123	201	10,078	13,780		
01/18/2017	8.00	12.36	5.36	0.03	0.253	0.000	10,159		32.0	10.5	7.65	288	320	19,215	21,350		7.57	8.0	190	161	222	12,677	14,812		
01/19/2017	8.34	12.26	5.87	0.00	0.393	0.000	21,972		28.0	10.7	7.72	204	294	14,189	20,449		7.66	3.5	127	112	129	8,834	8,973		
01/20/2017	7.94	12.53	5.56	0.00	0.412	0.000	18,126		32.0	10.7	7.64	108	268	7,152	17,747		7.64	6.0	144		90	9,536	5,960		
01/21/2017	8.32	12.36	5.45	0.00	0.422	0.000	6,399		55.0	11.0	7.66	99	284	6,869	19,706		7.59	1.5	106		87	7,355	6,037		
01/22/2017	8.66	13.55	5.98	0.08	0.178	0.000			43.0	11.1	7.75	255	258	18,417	18,634		7.78	1.2	100	78	155	7,222	11,195		
01/23/2017	8.67	12.84	6.08	0.60	0.326	0.000	2,122		28.0	11.3	7.73	276	272	19,957	19,668		7.70	3.5	118	93	191	8,532	13,811		
01/24/2017	9.00	14.08	6.92	0.14	0.310	0.000	12,311		25.0	10.7	7.62	282	330	21,167	24,770		7.64	2.1	107	86	162	8,031	12,160		
01/25/2017	9.85	13.82	7.66	0.05	0.322	0.000	13,094		32.0	10.6	7.70	276	274	22,673	22,509		7.67	1.5	88	76	156	7,229	12,815		
01/26/2017	10.93	15.92	8.29	0.00	0.313	0.000	18,393		37.0	10.6	7.67	207	228	18,869	20,784		7.61	1.5	88	69	105	8,022	9,571		
01/27/2017	10.44	14.13	6.97	0.00	0.321	0.000	26,132		37.0	10.5	7.71	258	226	22,464	19,678		7.62	4.0	134	106	264	11,667	22,986		
01/28/2017	9.60	13.81	6.92	0.00	0.301	0.000	7,141		35.0	9.7	7.71	381	198	30,504	15,853		7.64	2.0	97	71	170	7,766	13,611		
01/29/2017	9.22	13.81	6.60	0.00	0.303	0.000			32.0	10.1	7.67	189	230	14,533	17,686		7.63	1.2	90	80	90	6,921	6,921		
01/30/2017	8.66	13.03	6.13	0.00	0.309	0.000	10,755		22.0	10.5	7.88	210	266	15,167	19,212		7.82	3.5	118	97	131	8,522	9,461		
01/31/2017	8.00	12.20	6.03	0.04	0.318	0.000	16,705		15.0	10.4	7.76	348	390	23,219	26,021		7.73	5.0	152	126	216	10,141	14,412		
MMAVG	6.68																								
Min.	7.1	11.8	4.1	0.0		0.000	2,122		6.0	8.2	6.85	99	113	6,869	6,814		7.26	0.7	74	54	84	4777	5960		
Max.	14.8	26.7	8.3	0.9		0.692	54,446		55.0	11.9	8.02	510	420	36,664	30,508		7.82	8.0	276	240	264	17374	22986		
Total	284.3	434.8	189.9	2.8		0.692	414,155																		
Average	9.2	14.0	6.1	0.1		0.022	15,929		28.26	10.71	7.67	248	264	18900	20074		7.66	2.8	120	97	157	9058	11870		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
01/01/2017	6.70	<0.10	10.0	7.4	3.8	603	229	19	11.6	8.9	5.0	<0.01	<0.01	<0.01							96.833	91.150	7.49	2.9	11.2	7.4	7.42	3.1	18.4	14.2					
01/02/2017	6.61	<0.10	8.6	5.8	4.9	506	289	3	11.1	9.2	3.0	<0.01	<0.01	<0.01							97.474	95.825	7.64	3.8	10.8	6.4	7.57	3.6	20.2	12.2					
01/03/2017	6.97	<0.10	63.4	46.2	27.8	5,922	2,597	10	11.7	8.9	3.0	<0.01	<0.01	<0.01		1.18	110	0.42	39	0.19	92.191	78.138	7.54	4.0	10.8	6.6	7.40	18.2	86.4	64.0					
01/04/2017	6.81	0.20	9.8	5.8	5.6	1,206	689	23	9.2	8.4	4.5	<0.01	<0.01	<0.01							97.607	96.048	7.58	3.4	9.8	6.8	7.52	7.2	25.6	19.4					
01/05/2017	6.99	0.30	10.2	6.0	4.4	919	396	24	9.9	8.5	5.4	<0.01	<0.01	<0.01							96.423	92.609	7.59	2.9	8.4	5.0	7.60	7.5	32.8	23.8					
01/06/2017	6.94	0.10	9.6	6.8	4.6	767	368	16	10.4	9.1	4.1	<0.01	<0.01	<0.01							96.515	96.250	7.49	4.2	9.6	6.6	7.67	7.4	34.6	25.2					
01/07/2017	6.96	<0.10	12.6	7.2	3.9	890	275	11	10.5	9.3	2.5	<0.01	<0.01	<0.01							98.088	93.298	7.50	4.7	12.4	8.6	7.74	7.0	36.0	27.0					
01/08/2017	6.92	<0.10	10.2	5.4	4.4	699	302	10	10.0	9.4	3.2	<0.01	<0.01	<0.01							98.275	94.950	7.54	4.3	9.8	6.8	7.69	7.5	34.0	24.8					
01/09/2017	7.05	0.10	7.8	4.2	5.0	504	323	21	10.0	9.5	3.6	<0.01	<0.01	<0.01							98.428	97.111	7.61	4.4	10.2	8.0	7.70	6.8	29.2	20.6	40.00	50.00	0.50	17.00	0.20
01/10/2017	6.97	<0.10	9.2	6.0	5.3	575	332	10	10.1	9.5	3.2	<0.01	<0.01	<0.01		0.25	16	0.11	7	0.07	98.364	97.553	7.54	4.2	9.2	7.6	7.55	5.5	23.6	17.0					
01/11/2017	6.80	<0.10	9.0	5.0	4.9	783	426	22	11.0	7.7	2.5	<0.01	<0.01	<0.01							98.056	96.457	7.49	4.2	10.8	6.8	7.50	5.9	20.6	14.4					
01/12/2017	6.68	<0.10	11.6	7.2	6.5	1,056	592	21	10.0	8.4	3.5	<0.01	<0.01	<0.01							97.292	96.375	7.63	5.8	9.8	7.4	7.69	6.6	17.4	13.0					
01/13/2017	6.97	<0.10	9.8		4.9	848	424	10	10.8	9.1	3.4	<0.01	<0.01	<0.01							97.366	96.423	7.44	4.2	11.6		7.62	7.0	24.2						
01/14/2017	6.98	0.10	12.8		4.3	971	326	9	10.3	9.5	3.7	<0.01	<0.01	<0.01							97.784	94.961	7.52	3.6	11.0		7.63	6.5	26.2						
01/15/2017	6.92	0.10	10.2	8.8	4.0	733	288	7	10.4	9.3	4.4	<0.01	<0.01	<0.01							99.216	95.714	7.47	3.1	12.4	9.4	7.66	4.5	24.8	18.8					
01/16/2017	6.95	0.10	8.2	6.2	4.8	575	337	7	10.3	9.3	3.2	<0.01	<0.01	<0.01							98.431	97.211	7.59	4.0	9.6	7.4	7.64	6.3	26.2	20.0					
01/17/2017	6.94	<0.10	11.4	7.4	5.6	782	384	10	10.7	8.5	3.4	<0.01	<0.01	<0.01		0.20	14	0.12	8	0.05	98.386	97.286	7.63	4.4	10.4	7.2	7.65	6.9	29.0	21.6					
01/18/2017	7.00	<0.10	8.6	5.0	5.1	574	340	22	10.9	8.9	3.7	<0.01	<0.01	<0.01							98.229	97.313	7.51	3.9	8.2	6.6	7.56	6.1	24.2	17.8					
01/19/2017	6.92	<0.10	8.6	5.8	6.5	598	452	2	11.1	8.8	2.7	<0.01	<0.01	<0.01							96.814	97.075	7.70	5.0	9.6	8.0	7.68	7.8	23.0	18.0					
01/20/2017	7.12	<0.10	10.4		5.2	689	344	5	11.1	8.8	3.2	<0.01	<0.01	<0.01							95.185	96.119	7.46	3.8	9.8		7.62	7.2	30.6						
01/21/2017	6.86	0.00	9.6		4.0	666	278	8	11.3	8.6	2.4	<0.01	<0.01	<0.01							95.960	96.620	7.45	3.1	9.0		7.62	5.7	28.4						
01/22/2017	6.83	0.00	8.6	4.8	4.6	621	332	15	11.3	8.7	2.0	<0.01	<0.01	<0.01							98.196	96.667	7.69	3.0	8.4	5.6	7.70	7.0	28.8	20.6					
01/23/2017	7.01	<0.10	10.8	6.0	4.7	781	340	7	11.0	8.9	3.3	<0.01	0.01	0.01							98.297	96.029	7.58	4.3	11.4	7.0	7.63	10.2	38.8	27.6					
01/24/2017	6.97	0.10	11.8	6.0	4.9	886	368	11	10.3	8.9	3.7	<0.01	<0.01	<0.01		0.23	17	0.08	6	0.07	98.262	96.424	7.61	4.1	11.0	7.4	7.60	9.9	36.0	27.4					
01/25/2017	6.95	0.20	11.0	7.0	4.9	904	403	15	10.3	8.9	4.1	<0.01	<0.01	<0.01							98.225	95.985	7.60	3.9	10.2	7.6	7.53	11.1	32.2	23.2					
01/26/2017	6.87	<0.10	10.4	6.6	6.5	948	593	12	10.6	8.6	3.4	<0.01	<0.01	<0.01							96.860	95.439	7.65	4.9	8.0	6.8	7.63	12.1	25.2	18.8					
01/27/2017	6.88	0.20	11.6	9.0	6.8	1,010	592	50	10.3	8.5	4.0	<0.01	<0.01	<0.01							97.364	94.867	7.96	9.0	13.4	10.4	7.98	11.7	30.8	24.2					
01/28/2017	6.77	<0.10	9.2	6.6	4.3	737	344	10	10.2	8.8	3.1	<0.01	<0.01	<0.01							98.871	95.354	7.58	3.5	9.0	6.0	7.92	11.6	29.2	20.0					
01/29/2017	6.85	<0.10	9.0	6.2	4.5	692	346	4	10.3	8.9	3.0	<0.01	<0.01	<0.01							97.619	96.087	7.54	3.0	10.8	8.2	7.61	11.4	34.8	26.8					
01/30/2017	6.89	0.10	8.4	5.2	5.6	607	404	15	10.3	9.0	4.0	<0.01	<0.01	<0.01							97.333	96.842	7.67	3.6	11.0	7.2	7.71	13.8	39.8	29.8					
01/31/2017	6.99	0.20	10.8	6.0	5.4	721	360	9	10.1	9.1	5.5	<0.01	<0.01	<0.01		0.40	27	0.10	7	0.06	98.448	97.231	7.55	4.2	14.0	7.4	7.60	15.0	51.8	39.0					
MMAVG														MMAVG		0.55																			
Min.	6.6	0.00	8	4	4	504	229	2	9.2	7.7	2			<0.01		0.20	14	0.08	6	0.05	92.19	78.14	7.4	2.9	8.0	5.0	7.4	3.1	17.4	12.2	40.0	50	0.50	17.0	0.20
Max.	7.1	0.30	63	46	28	5922	2597	50	11.7	9.5	6			0.01		1.18	110	0.42	39	0.19	99.22	97.55	8.0	9.0	14.0	10.4	8.0	18.2	86.4	64.0	40.0	50	0.50	17.0	0.20
Total																																			
Average	6.9	<0.11	12	8	6	928	454	11	10.6	8.9	4			<0.01		0.45	37	0.17	13	0.09	97.50	95.34	7.6	4.1	10.4	7.3	7.6	8.3	31.1	23.3	40.0	50	0.50	17.0	0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
01/01/2017	8,880	8,260	7,040	6,250	14,970	10,780	8.33	10.00	2,491,200	2,836,800	62,025	57,694	2,248	18,000			55	67	6,680	9,640	5,140	7,360	9,890	14,730	9.81	10.00	2,937,600	2,102,400	68,943	99,492					52	65
01/02/2017	9,420	9,540	7,360	7,310	16,360	11,390	8.30	10.00	2,491,200	2,822,400	65,796	66,635	4,768	42,108	2,241	16,440	50	52	7,330	9,430	5,590	6,700	16,650	11,010	10.00	10.00	2,952,000	2,059,200	75,651	97,325	3,987	36,027	3,619	33,712	48	60
01/03/2017	9,800	9,240	6,740	6,340	11,560	17,060	6.09	10.00	2,462,400	2,836,800	68,451	64,539	3,645	34,250	3,912	35,057	47	54	7,670	10,770	5,910	8,150	10,820	15,990	9.73	10.00	2,750,400	2,030,400	86,694	111,154	3,165	35,703	4,232	35,964	47	51
01/04/2017	7,030	8,790	5,480	6,660	16,300	10,710	9.50	10.00	2,505,600	2,808,000	49,103	61,396	4,544	35,096	1,775	20,024	50	55	6,290	6,170	4,970	4,540	14,210	16,350	10.00	10.00	2,966,400	2,188,800	64,918	63,679			4,162	34,580	54	52
01/05/2017	7,140	7,220	5,610	5,610	14,860	10,530	9.57	10.00	2,520,000	2,851,200	49,871	50,430	2,863	21,061			60	67	6,200	7,410	4,740	5,610	11,170	14,880	10.00	10.00	2,966,400	2,188,800	63,989	76,477					65	69
01/06/2017	7,990	8,330	6,300	6,350	14,310	10,930	9.20	10.00	2,462,400	2,822,400	55,808	58,183	5,040	41,965			59	79	6,550	8,510	5,110	6,520	11,640	15,800	10.00	10.00	2,952,000	2,217,600	67,601	87,830			1,005	7,140	61	67
01/07/2017	7,740	7,860	6,150	5,990	14,910	10,680	8.99	10.00	2,347,200	2,894,400	54,062	54,900					62	92	6,270	8,300	4,870	6,450	9,710	15,920	10.00	10.00	2,966,400	1,872,000	64,711	85,662			5,068	36,000	70	86
01/08/2017	7,970	7,980	6,200	5,930	15,900	10,780	8.70	10.00	2,404,800	2,923,200	55,668	55,738	5,642	43,915			69	90	6,270	8,680	4,870	6,490	9,520	15,410	10.00	10.00	2,937,600	2,059,200	64,711	89,584			2,325	18,089	72	88
01/09/2017	8,450	8,150	6,740	6,200	13,900	10,770	8.92	10.00	2,404,800	2,880,000	59,021	56,926	4,511	36,317	3,182	35,897	53	63	6,240	8,740	4,770	6,680	9,050	15,250	10.00	10.00	2,822,400	1,972,800	64,401	90,203	1,114	13,989	5,035	39,175	56	63
01/10/2017	8,790	8,210	6,930	6,330	14,460	10,310	8.67	10.00	2,448,000	2,822,400	61,396	57,345	4,991	42,762			63	90	6,400	8,940	4,920	6,870	8,570	13,910	10.00	10.00	2,937,600	2,001,600	66,053	92,268	1,697	21,305	4,770	37,496	67	83
01/11/2017	7,330	8,560	5,870	6,530	14,650	10,610	9.07	10.00	2,476,800	2,923,200	51,198	59,789					52	60	5,380	6,220	4,200	4,740	12,880	16,320	9.76	10.00	2,865,600	1,915,200	55,526	64,195			3,078	24,552	54	58
01/12/2017	7,950	8,670	6,380	6,620	14,250	11,070	8.43	10.00	2,548,800	2,880,000	55,529	60,558	5,132	42,910			57	75	6,150	8,230	4,850	6,400	11,060	16,350	10.00	10.00	2,836,800	1,900,800	63,473	84,940			1,621	12,760	62	73
01/13/2017	7,540	8,410	5,820	7,390	10,690	11,230	9.19	10.00	2,476,800	2,779,200	52,665	58,742	4,871	40,769			58	88	5,800	8,460	3,540	6,510	10,860	15,860	9.81	10.00	2,851,200	2,044,800	59,860	87,314			4,950	39,793	62	80
01/14/2017	7,480	7,970	5,910	6,180	14,260	10,940	10.00	10.00	2,376,000	2,952,000	52,246	55,668	5,148	43,345			64	92	5,940	7,960	4,580	6,160	8,970	14,850	10.00	10.00	2,937,600	2,059,200	61,305	82,153			3,094	25,583	74	80
01/15/2017	7,820	8,400	6,070	6,350	14,380	10,720	10.00	10.00	2,275,200	2,779,200	54,621	58,672					54	85	6,330	8,320	4,940	6,390	9,070	14,650	10.00	10.00	2,808,000	2,131,200	65,330	85,869					70	81
01/16/2017	7,880	8,060	6,410	6,440	14,300	10,910	10.00	10.00	2,246,400	2,880,000	55,040	56,297	1,846	15,340			70	91	6,030	8,560	4,920	6,800	8,250	14,370	10.00	10.00	2,145,600	2,894,400	62,234	88,346			4,601	35,930	76	85
01/17/2017	7,570	8,740	5,900	6,580	15,900	10,870	9.14	10.00	2,376,000	2,880,000	52,875	61,047	4,347	36,581			59	81	6,560	8,870	5,180	6,780	8,750	16,310	10.00	10.00	2,937,600	2,088,000	67,704	91,545			5,579	43,086	69	82
01/18/2017	8,480	9,100	6,730	6,890	14,450	11,160	8.74	10.00	2,448,000	2,908,800	59,231	63,561	877	10,000			61	80	6,390	9,140	4,900	7,170	9,260	16,090	10.00	10.00	2,937,600	1,929,600	65,950	94,332			5,680	45,431	66	81
01/19/2017	9,490	9,890	7,280	7,360	16,520	12,860	8.22	10.00	2,520,000	2,880,000	66,285	69,079	7,369	75,279	4,739	43,392	61	76	7,480	10,200	5,700	7,790	10,540	17,840	9.76	9.76	2,937,600	2,001,600	77,199	105,272	1,159	13,370	1,769	13,416	63	77
01/20/2017	8,070	8,600	6,380	6,520	14,870	11,110	9.06	10.00	2,304,000	2,980,800	56,367	60,069	6,239	50,566	4,705	50,547	58	81	6,180	8,740	4,800	6,770	9,240	14,740	9.71	9.80	2,808,000	2,203,200	63,782	90,203	2,509	28,959	3,368	29,895	65	85
01/21/2017	8,190	8,270	6,450	6,230	14,230	10,630	8.81	10.00	2,462,400	2,865,600	57,205	57,764					59	75	6,210	9,050	4,820	6,980	8,620	15,470	9.64	9.32	3,081,600	1,972,800	64,092	93,403					63	75
01/22/2017	8,140	8,040	6,280	5,950	13,950	10,620	8.74	10.00	2,491,200	2,880,000	56,856	56,157	50,890	428,805			61	77	6,060	8,870	4,590	6,640	9,050	14,250	9.56	9.03	2,836,800	2,174,400	62,544	91,545			1,852	15,580	66	77
01/23/2017	7,570	8,330	5,980	6,350	14,540	10,260	8.73	10.00	2,404,800	2,894,400	52,875	58,183	5,428	44,505			99	48	5,850	8,940	4,570	6,880	9,730	16,330	9.81	9.35	2,880,000	1,987,200	60,376	92,268			4,230	34,727	116	53
01/24/2017	7,510	8,340	5,870	6,280	11,150	17,220	9.12	10.00	2,390,400	2,952,000	52,455	58,253	4,500	42,507			65	86	5,750	8,310	4,480	6,390	12,920	9,130	10.00	9.80	2,952,000	1,915,200	59,344	85,765			5,427	42,764	71	85
01/25/2017	7,620	8,420	6,020	6,310	14,910	11,360	9.25	10.00	2,390,400	2,923,200	53,224	58,812	5,312	43,713			66	88	5,960	8,080	4,630	6,170	10,120	15,990	9.77	10.00	2,894,400	1,944,000	61,512	83,392			5,710	43,165	69	88
01/26/2017	7,650	8,690	6,140	6,590	15,070	11,420	10.00	7.42	2,419,200	2,894,400	53,433	60,697			4,058	42,717	54	75	5,950	8,380	4,660	6,450	10,580	15,450	9.38	10.00	2,908,800	1,944,000	61,408	86,488			8,990	67,491	59	72
01/27/2017	7,190	8,480	5,480	6,330	13,730	10,880	10.00	6.95	2,448,000	2,880,000	50,220	59,231	5,131	43,522	4,034	42,465	61	83	5,640	7,880	4,290	6,060	10,520	15,370	8.93	10.00	2,980,800	1,886,400	58,209	81,328	4,512	43,177			67	76
01/28/2017	8,850	9,140	6,420	7,700	17,190	12,720	9.27	10.00	2,347,200	2,793,600	61,815	63,841					50	66	6,360	9,320	5,050	7,410	10,370	17,610	9.41	10.00	2,894,400	1,929,600	65,640	96,189					57	70
01/29/2017	8,640	9,140	6,960	7,070	16,990	12,250	9.86	10.00	2,390,400	2,880,000	60,348	63,841			4,417	43,232	46	82	6,260	9,350	5,070	7,350	9,590	16,640	9.34	10.00	2,707,200	2,116,800	64,608	96,499			765	9,570	112	51
01/30/2017	7,920	8,030	6,390	6,150	14,490	10,810	9.98	10.00	2,491,200	2,880,000	55,319	56,088	5,227	43,254			63	92	5,730	8,300	4,570	6,410	8,890	14,570	9.69	10.00	2,937,600	2,145,600	59,138	85,662	3,221	43,445	3,374	33,489	72	90
01/31/2017	7,650	7,990	6,150	6,000	14,580	10,950	10.00	10.00	2,448,000	2,908,800	53,433	55,808	4,919	39,213	4,276	39,121	69	89	5,410	9,000	4,190	6,920	8,330	15,760	10.00	10.00	2,923,200	1,843,200	55,835	92,887					74	83
MMAVG																																				
Min.	7,030	7,220	5,480	5,610	10,690	10,260	6	7	2,246,400	2,779,200	49,103	50,430	877	10,000	1,775	16,440	46	48	5,380	6,170	3,540	4,540	8,250	9,130	9	9	2,145,600	1,843,200	55,526	63,679	1,114	13,370	765	7,140	47	51
Max.	9,800	9,890	7,360	7,700	17,190	17,220	10	10	2,548,800	2,980,800	68,451	69,079	50,890	428,805	4,739	50,547	99	92	7,670	10,770	5,910	8,150	16,650	17,840	10	10	3,081,600	2,894,400	79,160	111,154	4,512	43,445	8,990	67,491	116	90
Total									75,268,800	89,092,800	1,744,441	1,835,943	155,488	1,315,783	37,339	368,892											89,251,200	63,720,000	1,995,207	2,753,269	21,364	235,975	94,304	759,388		
Average	8,056	8,479	6,305	6,477	14,601	11,437	9	10	2,428,026	2,873,961	56,272	59,224	6,479	54,824	3,734	36,889	60	77	6,236	8,605	4,820	6,598	10,285	15,265	10	10	2,879,071	2,055,484	64,362	88,815	2,671	29,497	3,929	31,641	67	74

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
02/01/2017	8.08	11.79	5.87	0.00	0.312	0.000	14,723		22.0	10.7	7.73	330	310	22,238	20,890		7.69	0.9	81	69	179	5,458	12,062		
02/02/2017	7.74	12.45	5.42		0.286	0.000	38,271		18.0	11.0	7.86	282	390	18,204	25,175		7.79	1.2	113	96	137	7,294	8,844		
02/03/2017	7.28	12.13	5.24	0.00	0.299	0.000	6,100		15.0	10.3	7.81	165	297	10,018	18,032		7.77	2.0	121	91	99	7,347	6,011		
02/04/2017	7.08	12.71	4.96	0.00	0.311	0.000	5,451		20.0	10.1	6.60	161	252	9,507	14,880		7.55	4.0	109	88	126	6,436	7,440		
02/05/2017	7.34	12.85	4.61	0.00	0.314	0.000			21.0	10.1	7.82	240	258	14,692	15,794		7.71	7.0	162	145	156	9,917	9,550		
02/06/2017	7.02	11.25	4.72	0.00	0.286	0.000	13,566		27.0	10.7	7.88	318	442	18,618	25,878		7.78	3.5	137	102	177	8,021	10,363		
02/07/2017	6.60	10.95	4.45	0.48	0.338	0.000			25.0	10.8	7.74	257	330	14,146	18,165		7.67	1.3	105	85	159	5,780	8,752		
02/08/2017	7.97	14.62	4.56	0.01	0.286	0.000	7,623		28.0	10.2	7.75	288	396	19,143	26,322		7.67	1.8	105	73	167	6,979	11,100		
02/09/2017	7.01	11.84	4.24	0.50	0.329	0.000	3,429		26.0	10.8	7.81	276	286	16,136	16,721		7.74	1.2	96	78	126	5,612	7,366		
02/10/2017	6.52	11.04	4.41	0.25	0.283	0.000	6,729		10.0	10.2	7.76	347	310	18,869	16,857		7.60	1.5	184		122	10,005	6,634		
02/11/2017	6.44	11.49	3.94	0.00	0.309	0.000			13.0	10.4	7.92	224	294	12,031	15,791		7.69	2.5	120	88	108	6,445	5,801		
02/12/2017	6.39	11.59	4.40	0.76	0.303	0.000	4,129		23.0	9.9	7.76	300	282	15,988	15,029		7.66	1.8	62	42	170	3,304	9,060		
02/13/2017	6.58	11.55	4.24	0.00	0.314	0.000			25.0	10.5	7.76	306	308	16,792	16,902		7.67	7.5	179	150	231	9,823	12,677		
02/14/2017	6.57	11.09	4.78	0.00	0.316	0.000	13,795		14.0	10.5	7.76	338	356	18,520	19,507		7.61	8.5	180	158	258	9,863	14,137		
02/15/2017	6.67	10.73	4.04	0.03	0.309	0.000	5,963		23.0	10.6	7.71	407	416	22,641	23,141		7.62	6.0	160	139	252	8,900	14,018		
02/16/2017	6.41	10.83	4.40	0.00	0.316	0.000	12,262		31.0	10.3	7.76	341	410	18,230	21,918		7.70	1.7	113	92	159	6,041	8,500		
02/17/2017	6.41	10.76	3.99	0.00	0.473	0.000	6,656		18.0	10.9	7.56	282	392	15,076	20,956		7.46	3.0	141		141	7,538	7,538		
02/18/2017	6.82	11.12	4.90	0.00	0.278	0.000	388		26.0	9.7	7.59	299	316	17,007	17,974		7.44	8.0	205		153	11,660	8,702		
02/19/2017	8.65	13.10	5.15	0.00	0.311	0.000			38.0	9.9	7.67	396	374	28,568	26,981		7.49	4.0	146	116	128	10,533	9,234		
02/20/2017	8.82	13.33	6.02	0.00	0.335	0.000	17,947		35.0	9.7	7.75	258	324	18,978	23,833		7.66	4.0	155	131	140	11,402	10,298		
02/21/2017	8.60	12.72	6.28	0.00	0.269	0.000	10,172		20.0	9.8	7.69	261	304	18,720	21,804		7.59	2.6	115	93	140	8,248	10,041		
02/22/2017	9.12	12.91	7.03	0.00	0.308	0.000	6,770		37.0	10.0	7.70	197	298	14,984	22,666		7.63	3.0	131	111	140	9,964	10,649		
02/23/2017	11.01	15.02	8.07	0.00	0.303	0.000	12,664		45.0	10.8	7.75	180	252	16,528	23,139		7.61	3.5	136	106	129	12,488	11,845		
02/24/2017	14.25	16.70	10.59	0.00	0.645	1.883	26,498		47.0	9.8	7.66	66	238	7,844	28,285		7.51	12.0	149	113	57	17,708	6,774		
02/25/2017	15.84	26.23	12.43	0.33	0.618	4.199			62.0	9.7	7.67	57	250	7,530	33,026		7.59	3.0	93	65	39	12,286	5,152		
02/26/2017	14.66	17.05	10.12	0.00	0.649	2.484			41.0	9.8	7.71	312	230	38,146	28,121		7.74	1.0	90	64	93	11,004	11,371		
02/27/2017	12.28	15.01	8.86	0.00	0.668	0.000	30,836		22.0	9.4	7.61	176	204	18,025	20,893		7.60	1.5	96	74	105	9,832	10,754		
02/28/2017	11.35	14.58	8.39	0.01	0.669	0.000	20,736		36.0	9.4	7.40	228	224	21,582	21,204		7.47	1.6	104	89	153	9,845	14,483		
MMAVG	6.66																								
Min.	6.4	10.7	3.9	0.0		0.000	388		10.0	9.4	6.60	57	204	7,530	14,880		7.44	0.9	62	42	39	3304	5152		
Max.	15.8	26.2	12.4	0.8		4.199	38,271		62.0	11.0	7.92	407	442	38,146	33,026		7.79	12.0	205	158	258	17708	14483		
Total	239.5	367.4	166.1	2.4		8.566	264,708																		
Average	8.6	13.1	5.9	0.1		0.306	12,605		27.43	10.21	7.69	260	312	17456	21424		7.63	3.6	128	98	144	8919	9613		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
02/01/2017	6.98	0.30	11.2	6.8	5.6	755	377	21	10.3	8.9	4.9	<0.01	<0.01	<0.01							98.303	96.387	7.55	4.0	10.8	8.2	7.57	15.0	55.2	41.8					
02/02/2017	6.92	0.30	11.2	6.2	7.3	723	471	12	10.3	8.9	4.8	<0.01	<0.01	<0.01							97.411	97.128	7.68	5.4	13.6	8.0	7.74	21.2	52.0	39.0					
02/03/2017	7.15	0.20	11.0	8.2	6.3	668	383	14	10.2	9.1	5.2	<0.01	<0.01	<0.01							96.182	96.296	7.69	5.2	14.4	8.6	7.75	20.1	52.4	39.8					
02/04/2017	7.10	<0.10	10.8	13.8	5.3	638	313	11	10.2	9.1	5.5	<0.01	<0.01	<0.01							96.708	95.714	7.60	4.9	29.4	28.6	7.65	19.5	52.8	52.6					
02/05/2017	6.48	<0.10	7.0	3.8	5.8	429	355	3	10.1	9.6	6.0	<0.01	<0.01	<0.01							97.583	97.287	7.58	3.7	13.4	10.6	7.60	15.6	52.2	40.8					
02/06/2017	6.88	0.10	10.4	7.6	6.2	609	363	7	10.3	8.9	4.6	<0.01	<0.01	<0.01							98.050	97.647	7.73	5.6	12.2	8.0	7.77	15.5	43.6	32.0					
02/07/2017	7.02	<0.10	10.4	7.8	5.0	572	275	8	10.6	9.0	4.3	<0.01	<0.01	<0.01		0.37	20	0.11	6	0.09	98.054	96.848	7.54	3.8	11.6	8.6	7.65	11.9	46.6	37.2	39.00	71.00	1.00	18.00	<0.20
02/08/2017	7.04	0.10	9.6	5.6	4.8	638	319	6	10.3	8.9	4.4	<0.01	<0.01	<0.01							98.333	97.576	7.62	3.5	12.2	16.8	7.71	7.5	31.4	21.2					
02/09/2017	6.93	0.20	15.4	9.4	7.7	900	450	13	10.1	9.1	4.9	<0.01	<0.01	0.01							97.210	94.615	7.63	6.9	14.4	10.0	7.68	21.5	54.6	41.4					
02/10/2017	7.04	0.20	13.2	9.0	5.8	718	315	4	9.4	9.4	4.9	<0.01	<0.01	<0.01							98.329	95.742	7.46	5.6	14.2	9.6	7.67	15.5	49.6	36.8					
02/11/2017	6.89	<0.10	15.4	9.4	5.2	827	279	0	9.5	9.4	4.7	<0.01	<0.01	<0.01							97.679	94.762	7.47	5.4	14.6	10.2	7.68	14.4	47.2	35.2					
02/12/2017	6.94	<0.10	10.8	7.8	5.4	576	288	5	9.7	9.5	2.4	<0.01	<0.01	<0.01							98.200	96.170	7.58	4.7	13.0	9.2	7.74	14.3	44.8	34.8					
02/13/2017	6.92	<0.10	11.6	7.8	5.8	637	318	9	9.7	9.2	4.6	<0.01	<0.01	<0.01							98.105	96.234	7.55	5.2	14.8	9.2	7.68	15.5	43.0	32.8					
02/14/2017	6.95	0.10	10.2	7.4	5.6	559	307	22	9.7	9.2	3.6	<0.01	<0.01	<0.01		0.40	22	0.10	5	0.12	98.343	97.135	7.62	5.2	12.2	10.8	7.70	11.9	34.4	25.6					
02/15/2017	7.10	0.10	11.4	7.0	7.7	634	428	7	10.5	8.9	5.1	<0.01	<0.01	<0.01							98.108	97.260	7.66	4.8	12.2	9.4	7.82	12.5	33.2	24.0					
02/16/2017	7.03	0.10	12.0	7.2	7.4	642	396	13	10.6	8.7	4.9	<0.01	<0.01	<0.01							97.830	97.073	7.71	6.2	11.6	7.6	7.83	16.8	37.4	27.6					
02/17/2017	7.17	0.20	14.0		6.8	748	364	14	10.1	8.9	4.7	<0.01	<0.01	<0.01							97.589	96.429	7.49	4.3	13.4		7.74	10.2	33.0						
02/18/2017	7.00	0.10	11.0		4.8	626	273	9	10.3	8.9	3.7	<0.01	<0.01	<0.01							98.395	96.519	7.47	3.8	13.4		7.70	7.7	27.4						
02/19/2017	6.94	<0.10	10.4	6.6	5.2	750	375	14	10.8	8.8	2.8	<0.01	<0.01	<0.01							98.687	97.219	7.44	3.6	10.8	7.0	7.62	7.8	31.2	21.4					
02/20/2017	6.91	0.20	9.6	5.4	5.6	706	412	6	10.4	9.0	4.3	<0.01	<0.01	<0.01							97.829	97.037	7.67	3.3	10.8	6.2	7.78	12.3	31.2	21.0					
02/21/2017	7.03	0.10	7.8	5.8	6.5	559	466	10	10.0	9.3	4.5	<0.01	<0.01	<0.01		0.27	19	1.08	77	0.08	97.510	97.434	7.71	9.0	9.6	6.4	7.72	12.3	28.8	20.2					
02/22/2017	7.04	<0.10	8.6	4.0	6.4	654	487	1	10.4	8.8	3.3	<0.01	<0.01	<0.01							96.751	97.114	7.73	9.5	12.6	8.4	7.67	7.3	26.0	18.4					
02/23/2017	6.94	<0.10	174.0	129.0	66.0	15,977	6,060	13	10.6	8.8	3.6	<0.01	<0.01	<0.01							63.333	30.952	7.64	4.0	8.8	5.4	7.41	138.0	353.0	270.0					
02/24/2017	6.86	0.10	65.4	48.6	23.4	7,772	2,781	8	10.2	6.4	5.2	<0.01	<0.01	<0.01							64.545	72.521	7.52	3.1	8.2	4.8	7.46	11.7	142.0	111.6					
02/25/2017	6.87	0.00	41.2	25.4	36.6	5,443	4,835	640	9.7	7.5	9.9	<0.01	<0.01	<0.01							35.789	83.520	7.56	2.4	7.0	4.2	7.78	2.7	18.6	12.2					
02/26/2017	7.05	0.00	30.8	20.6	38.4	3,766	4,695	2800	9.2	8.4	14.4	<0.01	<0.01	<0.01							87.692	86.609	7.68	2.0	8.6	4.8	7.79	9.3	27.2	19.0					
02/27/2017	7.25	<0.10	9.8	5.6	6.2	1,004	635	20	9.5	8.2	3.4	0.25	<0.01	<0.01							96.477	95.196	7.65	2.0	5.8	4.0	7.53	11.7	26.2	21.4					
02/28/2017	6.89	<0.10	10.2	5.8	7.8	966	738	8	10.0	7.9	3.8	<0.01	<0.01	<0.01		0.23	22	1.62	153	0.11	96.579	95.446	7.51	2.2	6.8	3.4	7.33	14.3	20.2	14.4					
MMAVG													MMAVG			0.55																			
Min.	6.5	0.00	7	4	5	429	273	0	9.2	6.4	2			<0.01		0.23	19	0.10	5	0.08	35.79	30.95	7.4	2.0	5.8	3.4	7.3	2.7	18.6	12.2	39.0	71	1.00	18.0	<0.20
Max.	7.3	0.30	174	129	66	15977	6060	2800	10.8	9.6	14			0.25		0.40	22	1.62	153	0.12	98.69	97.65	7.7	9.5	29.4	28.6	7.8	138.0	353.0	270.0	39.0	71	1.00	18.0	<0.20
Total																																			
Average	7.0	<0.13	21	15	11	1768	991	12	10.1	8.8	5			<0.01		0.32	21	0.73	61	0.10	92.70	92.50	7.6	4.6	12.2	8.8	7.7	17.6	53.4	42.0	39.0	71	1.00	18.0	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
02/01/2017	8,340	7,970	6,530	6,070	14,130	10,560	9.52	10.00	2,476,800	2,865,600	58,253	55,668					61	87	5,890	8,710	4,610	6,710	8,740	14,700	9.74	10.00	2,937,600	2,016,000	60,789	89,894			5,776	47,110	71	88
02/02/2017	8,130	8,630	6,550	6,620	14,180	11,400	9.66	10.00	2,419,200	2,836,800	56,786	60,278					64	83	5,890	8,800	4,720	6,900	9,020	15,640	9.70	10.00	3,456,000	2,419,200	60,789	90,823			7,532	60,817	68	83
02/03/2017	8,720	7,800	6,870	6,270	15,180	11,060	9.73	10.00	2,476,800	2,980,800	60,907	54,481	4,430	36,354	3,075	35,844	57	85	6,050	8,780	4,850	6,880	8,960	14,530	9.85	10.00	2,865,600	1,958,400	86,694	90,616			2,870	23,033	66	81
02/04/2017	9,070	8,280	5,820	5,890	15,200	10,680	9.59	10.00	2,505,600	2,836,800	63,352	57,834					62	86	6,290	8,840	4,670	6,220	8,910	13,630	10.00	10.00	2,937,600	1,900,800	64,918	91,235					80	93
02/05/2017	9,210	8,480	6,890	6,480	16,000	10,900	8.87	10.00	2,347,200	2,851,200	64,330	59,231					52	66	6,840	9,240	5,030	7,040	9,330	14,320	9.90	9.86	3,024,000	2,030,400	70,594	95,364					59	69
02/06/2017	9,270	8,390	7,160	6,270	15,530	11,000	6.56	10.00	2,361,600	2,808,000	64,749	58,602	0	0	0	0	54	81	6,580	9,460	5,340	7,470	9,070	14,050	9.70	9.63	2,908,800	2,116,800	67,911	97,634					71	81
02/07/2017	9,040	9,200	7,090	7,070	14,370	10,880	8.27	10.00	2,462,400	2,880,000	63,142	64,260	4,410	36,583			59	71	6,940	9,490	5,320	7,190	9,420	15,600	9.91	9.87	3,024,000	1,944,000	71,626	97,944			1,749	13,440	69	79
02/08/2017	8,940	8,220	7,000	6,220	16,500	11,400	5.90	10.00	2,404,800	2,793,600	62,444	57,415	4,371	36,475			58	79	6,590	9,990	4,980	7,440	10,500	15,090	9.80	9.60	2,923,200	1,915,200	68,014	103,104			4,298	33,515	71	77
02/09/2017	9,720	9,530	7,700	7,280	17,540	12,280	8.40	10.00	2,332,800	2,836,800	67,892	66,565	4,416	35,797			58	72	7,570	10,310	5,590	8,470	11,050	16,600	9.90	10.00	2,880,000	1,872,000	78,128	106,407			4,653	35,571	65	74
02/10/2017	9,320	8,930	7,520	7,110	16,010	12,120	9.60	10.00	2,433,600	2,865,600	65,098	62,374	5,132	35,080			54	71	7,680	9,430	6,200	7,710	16,090	10,470	10.00	10.00	2,808,000	1,944,000	79,263	97,325			4,815	36,113	56	76
02/11/2017	7,380	7,770	7,300	6,770	14,090	11,310	8.82	10.00	2,347,200	2,822,400	51,547	54,272					75	86	7,210	9,030	5,530	6,870	9,740	16,170	10.00	10.00	3,052,800	1,843,200	74,413	93,196			2,777	22,023	68	80
02/12/2017	9,050	8,730	7,010	6,680	13,370	11,450	8.91	10.00	2,347,200	2,822,400	63,212	60,977	4,236	36,993			67	84	6,710	9,260	5,240	7,160	9,860	15,110	10.00	10.00	2,966,400	1,886,400	69,252	95,570			2,268	18,000	86	88
02/13/2017	9,310	9,220	7,510	7,120	15,600	11,710	8.26	10.00	2,318,400	2,836,800	65,028	64,399	4,408	36,859			64	50	7,270	9,090	5,690	7,050	8,900	15,700	10.00	10.00	2,894,400	1,857,600	75,032	93,816			4,046	32,800	62	70
02/14/2017	9,040	8,770	7,190	6,730	15,760	11,330	8.27	10.00	2,419,200	2,822,400	63,142	61,256	4,379	34,070			60	75	7,170	8,710	5,390	6,890	9,020	15,380	10.00	10.00	2,952,000	2,246,400	74,000	89,894			3,670	30,259	67	75
02/15/2017	9,450	8,720	7,710	6,760	14,920	11,550	7.15	10.00	2,376,000	2,836,800	66,006	60,907	3,501	35,777	2,946	35,587	57	77	6,900	8,900	5,340	6,900	8,960	14,320	10.00	10.00	3,052,800	1,857,600	71,213	91,855			3,207	26,380	67	81
02/16/2017	9,690	9,000	7,880	7,280	15,300	10,790	7.44	9.84	2,419,200	2,808,000	67,682	62,863					52	58	6,830	8,950	5,310	7,080	8,460	15,370	9.92	10.00	3,038,400	1,872,000	70,491	92,371			8,896	72,738	63	68
02/17/2017	8,940	8,640	7,150	6,680	14,070	11,430	7.32	10.00	2,347,200	2,894,400	62,444	60,348					71	87	6,410	9,040	4,990	7,030	8,500	13,900	10.00	10.00	2,995,200	1,929,600	66,156	93,300			12,286	104,007	80	89
02/18/2017	8,830	8,550	7,100	6,630	13,770	11,240	7.96	9.32	2,332,800	2,822,400	61,675	59,720					66	87	6,320	8,640	4,940	6,710	7,750	13,640	9.92	10.00	2,995,200	1,915,200	65,227	89,171			3,470	30,302	85	87
02/19/2017	8,500	8,640	6,480	6,670	13,900	11,160	7.58	9.18	2,433,600	2,764,800	59,370	60,348					68	86	6,400	8,120	4,890	6,170	8,110	14,700	9.66	10.00	3,052,800	1,972,800	66,053	83,804					78	87
02/20/2017	8,330	9,000	6,600	6,850	14,680	11,500	7.86	9.73	2,361,600	2,793,600	58,183	62,863	4,478	35,258	3,452	35,929	60	80	6,640	7,910	5,150	6,090	9,580	15,200	9.86	10.00	2,937,600	1,944,000	68,530	81,637					72	86
02/21/2017	8,440	8,740	6,660	6,720	15,000	11,360	8.36	10.00	2,390,400	2,880,000	58,951	61,047	4,393	35,506			59	82	6,790	7,900	5,300	6,170	9,560	15,430	10.00	10.00	2,980,800	1,987,200	70,078	81,534			1,754	14,250	75	85
02/22/2017	7,260	9,500	5,810	7,300	15,190	10,820	7.49	10.00	2,376,000	2,851,200	50,709	66,355	7,785	67,200			54	75	6,750	8,560	5,230	6,660	10,700	14,590	9.62	10.00	2,980,800	1,972,800	69,665	88,346			2,613	21,209	74	84
02/23/2017	7,360	10,720	5,970	8,240	16,340	12,050	6.66	10.00	2,404,800	2,836,800	51,408	74,877	7,474	68,729			50	69	8,110	7,760	6,500	4,000	11,890	17,500	10.00	10.00	2,894,400	1,952,640	83,701	80,089			1,408	11,250	62	74
02/24/2017	10,740	9,920	8,580	7,510	13,360	10,900	8.52	10.00	2,318,400	2,808,000	75,016	69,289					64	78	5,740	4,830	4,470	3,800	13,000	14,360	9.44	8.49	2,908,800	1,972,800	59,241	49,849	3,836	36,118	7,206	58,946	70	66
02/25/2017	10,070	9,640	8,000	7,320	18,320	10,450	8.54	10.00	2,203,200	2,822,400	70,336	67,333					55	60	5,910	5,120	4,590	3,970	12,710	14,310	9.47	10.00	2,851,200	2,275,200	60,996	52,842	3,959	36,659	23,588	36,040	59	66
02/26/2017	9,850	9,730	7,820	7,430	13,200	10,430	9.22	10.00	2,246,400	2,880,000	68,800	67,962					66	77	6,630	5,730	5,110	4,490	12,440	14,130	9.86	10.00	2,707,200	1,987,200	68,427	59,138	3,803	35,979	4,240	35,751	68	72
02/27/2017	10,440	9,950	8,260	7,630	14,520	10,540	10.00	9.40	2,332,800	2,880,000	72,921	69,498					62	73	5,940	4,580	5,380	3,690	12,160	13,270	10.00	10.00	2,880,000	2,160,000	61,305	47,269	3,788	36,045	4,076	35,659	64	66
02/28/2017	9,990	9,470	7,820	7,150	13,780	12,070	9.27	10.00	2,145,600	2,376,000	69,778	66,146	4,317	36,579			70	85	6,230	5,030	4,830	3,920	13,600	13,030	9.62	9.43	2,966,400	2,232,000	64,298	51,913			1,361	12,000	71	70
MMAVG																																				
Min.	7,260	7,770	5,810	5,890	13,200	10,430	6	9	2,145,600	2,376,000	50,709	54,272	0	0	0	0	50	50	5,740	4,580	4,470	3,690	7,750	10,470	9	8	2,707,200	1,843,200	59,241	47,269	3,788	35,979	1,361	11,250	56	66
Max.	10,740	10,720	8,580	8,240	18,320	12,280	10	10	2,505,600	2,980,800	75,016	74,877	7,785	68,729	3,452	35,929	75	87	8,110	10,310	6,500	8,470	16,090	17,500	10	10	3,456,000	2,419,200	83,701	106,407	3,959	36,659	23,588	104,007	86	93
Total									66,340,800	79,113,600	1,763,161	1,747,168	67,730	567,260	9,473	107,360											82,872,000	55,981,440	1,922,551	2,375,940	15,386	144,801	118,559	811,213		
Average	9,015	8,934	7,142	6,884	14,993	11,228	8	10	2,369,314	2,825,486	62,970	62,399	4,515	37,817	2,368	26,840	61	77	6,653	8,222	5,185	6,310	10,215	14,669	10	10	2,959,714	1,999,337	68,663	84,855	3,847	36,200	5,155	35,270	70	78

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
03/01/2017	11.63	13.65	7.97	0.00	0.646	0.000	42,935		46.0	9.8	7.54	396	256	38,410	24,831		7.42	1.8	90	76	138	8,729	13,385		
03/02/2017	10.02	17.44	2.60	0.00	0.646	0.003	33,102		40.0	10.4	7.74	175	232	14,624	19,387		7.65	4.5	107	86	155	8,942	12,953		
03/03/2017	9.31	13.76	6.38	0.00	0.333	0.000	30,891		20.0	10.3	7.62	167	200	12,967	15,529		7.55	3.0	79	70	132	6,134	10,249		
03/04/2017	8.58	14.34	6.06	0.00	0.124	0.000	7,984		9.0	10.0	7.68	185	200	13,238	14,311		7.64	1.5	66	48	102	4,723	7,299		
03/05/2017	8.46	13.14	5.82	0.00	0.106	0.000			9.0	9.8	7.73	140	214	9,878	15,099		7.68	1.4	89	60	156	6,280	11,007		
03/06/2017	9.60	13.93	5.97	0.00	0.141	0.000	15,744		15.0	10.8	7.66	194	605	15,532	48,439		7.45	33.0	149	127	330	11,930	26,421		
03/07/2017	7.86	11.73	5.55	0.03	0.217	0.000	11,166		34.0	10.5	7.72	309	302	20,256	19,797		7.54	22.0	393	329	387	25,762	25,369		
03/08/2017	9.97	12.90	5.45	0.00	0.181	0.000	25,526		50.0	11.3	7.63	252	284	20,954	23,615		7.59	13.0	310	248	234	25,776	19,457		
03/09/2017	8.58	13.35	6.08	0.00	0.149	0.000	9,822		47.0	11.3	7.72	252	366	18,032	26,190		7.46	40.0	812	635	411	58,104	29,410		
03/10/2017	7.84	11.13	4.98	0.00	0.236	0.000	8,866		26.0	10.4	7.70	186	250	12,162	16,346		7.50	34.0	584	454	207	38,185	13,535		
03/11/2017	6.63	11.78	4.66	0.00	0.156	0.000	2,489		8.0	10.1	7.79	234	190	12,939	10,506		7.61	13.0	303	240	234	16,754	12,939		
03/12/2017	6.36	11.99	4.61	0.00	0.188	0.000			4.0	10.0	7.81	173	214	9,176	11,351		7.64	9.5	245	193	195	12,995	10,343		
03/13/2017	6.35	11.62	4.61	0.03	0.147	0.000	15,007		10.0	10.9	7.81	354	426	18,747	22,561		7.79	3.8	172	136	206	9,109	10,910		
03/14/2017	6.96	10.71	4.34	1.27	0.270	0.000			25.0	10.8	7.67	282	278	16,369	16,137		7.63	8.0	212	181	222	12,306	12,886		
03/15/2017	6.90	11.28	4.93	0.00	0.270	0.000	2,060		23.0	10.1	7.82	300	326	17,264	18,760		7.73	9.0	263	214	222	15,135	12,775		
03/16/2017	6.67	11.13	4.93	0.00	0.304	0.000	7,065		17.0	10.5	7.73	276	378	15,353	21,027		7.72	12.0	286	237	219	15,910	12,182		
03/17/2017	6.91	11.58	4.73	0.00	0.136	0.000	3,512		24.0	10.4	7.75	207	322	11,929	18,557		7.73	5.0	176	139	150	10,143	8,644		
03/18/2017	6.73	10.42	4.11	0.00	0.184	0.000	12,734		14.0	10.1	7.62	87	292	4,883	16,389		7.58	5.0	192		108	10,777	6,062		
03/19/2017	7.01	11.45	5.14	0.00	0.189	0.000			36.0	10.2	7.72	198	290	11,576	16,954		7.69	4.1	204	175	120	11,927	7,016		
03/20/2017	7.58	11.14	4.45	0.00	0.171	0.000	14,229		35.0	10.3	7.77	296	406	18,712	25,666		7.74	2.5	149	116	197	9,419	12,454		
03/21/2017	8.19	11.52	5.09	0.00	0.135	0.000	14,393		31.0	9.8	7.76	321	384	21,926	26,229		7.65	9.2	234	286	264	15,983	18,032		
03/22/2017	7.61	11.77	4.93	0.00	0.134	0.000	14,934		32.0	10.0	7.75	354	364	22,467	23,102		7.70	22.0	437	367	303	27,735	19,231		
03/23/2017	6.93	10.47	3.30	0.00	0.125	0.000	5,691		18.0	9.9	7.75	288	444	16,645	25,662		7.63	23.0	442	374	372	25,546	21,500		
03/24/2017	7.41	11.24	4.56	0.01	0.206	0.000	6,490		23.0	10.3	7.79	300	386	18,540	23,855		7.65	15.0	363	307	222	22,433	13,719		
03/25/2017	7.74	15.18	4.58	0.00	0.107	0.000	2,769		41.0	10.1	7.56	408	412	26,337	26,595		7.52	5.0	162		140	10,457	9,037		
03/26/2017	7.69	11.71	5.09	0.13	0.124	0.000			35.0	10.0	7.72	228	324	14,623	20,780		7.80	1.0	97	80	126	6,221	8,081		
03/27/2017	11.27	25.89	6.14	0.53	0.151	1.013			33.0	9.9	7.38	282	348	26,506	32,709		7.53	0.8	104	77	102	9,775	9,587		
03/28/2017	12.50	20.37	9.56	0.52	0.106	3.370	2,708		37.0	9.9	7.83	201	270	20,954	28,148		7.73	1.9	116	78	122	12,093	12,719		
03/29/2017	14.91	17.28	10.24	0.00	0.104	2.878			39.0	8.4	7.89	233	188	28,973	23,378		7.80	1.0	87	66	87	10,818	10,818		
03/30/2017	13.09	14.95	9.36	0.00	0.414	2.495			48.0	9.6	7.78	164	218	17,904	23,799		7.78	1.0	99	72	93	10,808	10,153		
03/31/2017	12.54	15.72	9.80	0.81	0.334	2.761			35.0	9.8	7.58	60	264	6,275	27,610		7.57	1.0	81		51	8,471	5,334		
MMAVG	6.60																								
Min.	6.4	10.4	2.6	0.0		0.000	2,060		4.0	8.4	7.38	60	188	4,883	10,506		7.42	0.8	66	48	51	4723	5334		
Max.	14.9	25.9	10.2	1.3		3.370	42,935		50.0	11.3	7.89	408	605	38,410	48,439		7.80	40.0	812	635	411	58104	29410		
Total	269.8	414.6	176.0	3.3		12.520	290,117																		
Average	8.7	13.4	5.7	0.1		0.404	13,187		27.87	10.18	7.71	242	311	17231	22043		7.64	9.9	229	195	194	15464	13339		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
03/01/2017	6.71	<0.10	7.2	4.8	6.3	698	611	13	10.6	7.5	2.8	<0.01	<0.01	<0.01							98.409	97.188	7.62	2.0	4.4	2.6	7.60	10.8	18.0	12.8					
03/02/2017	6.70	<0.10	11.4	7.4	9.0	953	752	12	10.2	8.0	3.5	<0.01	<0.01	<0.01							94.857	95.086	7.61	3.9	10.4	6.6	7.62	23.6	36.6	27.0					
03/03/2017	7.07	0.20	9.4	5.4	5.4	730	419	6	10.2	8.7	4.3	<0.01	<0.01	<0.01							96.766	95.300	7.99	2.3	5.6	2.2	8.13	16.0	29.6	20.4					
03/04/2017	6.90	<0.10	7.6	4.6	6.7	544	479	35	9.8	9.0	4.5	<0.01	<0.01	<0.01							96.378	96.200	7.97	3.3	8.4	4.6	8.25	20.4	49.0	37.6					
03/05/2017	6.91	<0.10	10.4	5.2	4.8	734	339	5	9.1	9.2	4.9	<0.01	<0.01	<0.01							96.571	95.140	7.54	3.0	12.0	8.8	7.68	13.1	37.2	26.4					
03/06/2017	7.03	0.10	325.0	246.0	90.0	26,021	7,206	13	9.6	9.2	5.2	<0.01	<0.01	<0.01							53.608	46.281	7.54	3.2	9.4	5.4	7.32	336.0	963.0	753.0					
03/07/2017	7.01	0.30	10.8	9.0	9.2	708	603	3	10.4	7.9	5.9	<0.01	<0.01	<0.01		0.30	20	7.37	483	0.17	97.023	96.424	7.43	5.1	12.0	10.6	7.67	25.2	32.2	26.6					
03/08/2017	6.88	<0.10	267.0	207.0	160.0	22,201	13,304	8	11.4	5.1	3.9	<0.01	<0.01	<0.01							36.508	5.986	7.49	2.8	18.4	15.0	7.50	462.0	973.0	788.0	42.00	<50.00	0.66	19.00	<0.20
03/09/2017	7.03	0.60	349.0	271.0	147.0	24,973	10,519	22	10.9	7.5	6.1	<0.01	<0.01	<0.01							41.667	4.645	7.71	6.0	7.8	5.2	7.35	372.0	1027.0	821.0					
03/10/2017	6.91	0.20	15.0	8.6	8.3	981	543	18	10.9	8.2	5.6	<0.01	<0.01	<0.01							95.538	94.000	7.63	2.7	8.8	4.4	7.35	22.2	46.0	32.4					
03/11/2017	6.93	0.10	3.2	2.8	3.8	177	210	6	9.8	8.3	4.0	<0.01	<0.01	<0.01							98.376	98.316	8.17	5.3	8.6	4.8	8.09	16.7	41.0	31.4					
03/12/2017	7.00	<0.10	7.6	4.0	5.7	403	302	1	9.6	8.5	2.5	<0.01	<0.01	0.01							96.705	96.449	7.69	3.8	7.2	5.6	7.65	15.3	29.2	22.6					
03/13/2017	7.07	<0.10	8.6	5.2	4.6	455	244	6	9.6	8.4	3.4	<0.01	<0.01	<0.01							98.701	97.981	7.74	5.4	6.6	6.4	7.70	17.1	35.6	29.0					
03/14/2017	7.16	<0.10	9.4	6.0	5.7	546	331	5	10.3	8.3	2.6	<0.01	<0.01	<0.01		0.11	6	0.17	10	0.07	97.979	96.619	7.73	4.0	9.2	6.6	7.75	17.6	41.8	32.8					
03/15/2017	7.10	<0.10	9.4	7.0	4.8	541	276	15	9.5	8.5	4.1	<0.01	<0.01	<0.01							98.400	97.117	7.80	3.8	9.6	6.8	7.73	14.3	39.2	29.8					
03/16/2017	7.13	<0.10	11.6	7.0	7.1	645	395	6	9.6	8.5	4.3	<0.01	<0.01	<0.01							97.428	96.931	7.81	3.4	8.0	3.4	7.70	20.0	35.0	25.6					
03/17/2017	7.08	0.10	14.2	10.6	3.8	818	219	28	10.1	8.6	3.8	<0.01	<0.01	<0.01							98.164	95.590	7.79	3.0	9.4	5.6	7.71	11.4	28.4	20.4					
03/18/2017	7.55	<0.10	10.4		5.6	584	314	3	10.0	8.7	3.5	<0.01	<0.01	<0.01							93.563	96.438	7.61	2.7	8.8		7.70	9.9	35.0						
03/19/2017	6.99	0.00	14.4	9.4	7.0	842	409	2	10.3	8.5	3.1	<0.01	<0.01	<0.01							96.465	95.034	7.80	2.8	10.0	7.0	7.68	12.8	34.4	26.2					
03/20/2017	7.21	<0.10	7.6	3.2	4.6	480	291	23	10.1	8.6	6.3	<0.01	<0.01	<0.01							98.446	98.128	7.84	2.3	9.4	5.4	7.71	7.5	21.6	16.0					
03/21/2017	7.18	0.70	9.8	5.6	5.6	669	383	110	10.6	7.7	9.8	<0.01	<0.01	<0.01		0.27	18	0.36	25	0.07	98.255	97.448	7.82	3.2	7.6	4.6	7.78	14.3	30.6	23.4					
03/22/2017	7.12	<0.10	8.2	5.6	7.2	520	457	1	10.5	8.3	3.9	<0.01	<0.01	<0.01							97.966	97.747	7.78	3.8	8.8	6.2	7.72	19.7	46.2	36.0					
03/23/2017	7.02	0.30	6.8	4.0	5.7	393	329	22	9.9	8.6	4.8	<0.01	<0.01	<0.01							98.021	98.468	7.80	3.1	6.8	5.2	7.70	16.2	28.8	20.2					
03/24/2017	7.11	<0.10	8.6	6.0	9.5	531	587	3	10.4	8.5	2.8	<0.01	<0.01	<0.01							96.833	97.772	7.68	3.3	9.6	5.8	7.62	14.3	28.0	20.4					
03/25/2017	7.03	<0.10	69.2		31.2	4,467	2,014	6	10.9	8.1	2.1	<0.01	<0.01	<0.01							92.353	83.204	7.69	3.1	8.4		7.38	46.2	341.0						
03/26/2017	7.08	0.20	9.0	6.6	5.4	577	346	2	10.3	8.6	4.0	<0.01	<0.01	<0.01							97.632	97.222	7.86	3.7	10.6	7.4	7.67	21.8	41.6	33.6					
03/27/2017	7.12	<0.10	222.0	166.0	105.0	20,866	9,869	5	10.8	8.2	4.3	<0.01	<0.01	<0.01							62.766	36.207	7.83	3.0	9.0	5.0	7.37	35.4	827.0	661.0					
03/28/2017	6.98	<0.10	46.4	31.0	51.6	4,837	5,379	12	9.8	8.3	3.3	<0.01	<0.01	<0.01		1.04	108	4.12	430	0.23	74.328	82.815	7.75	3.5	8.4	5.6	7.60	27.0	44.6	33.2					
03/29/2017	7.17	0.20	37.6	29.0	41.4	4,676	5,148	183	8.9	8.5	18.9	<0.01	<0.01	<0.01							82.232	80.000	7.84	2.9	5.8	5.6	7.82	14.6	29.6	22.8					
03/30/2017	7.16	<0.10	27.2	19.0	31.8	2,969	3,472	80	9.7	7.9	8.8	<0.01	<0.01	<0.01							80.610	87.523	7.80	2.8	8.4	5.0	7.80	11.3	36.6	29.2					
03/31/2017	7.00	<0.10	38.6		37.2	4,037	3,891	5	9.7	8.2	4.8	<0.01	<0.01	<0.01							38.000	85.379	7.72	2.0	9.8		7.76	18.3	58.0						
MMAVG														MMAVG		0.55																			
Min.	6.7	0.00	3	3	4	177	210	1	8.9	5.1	2			<0.01		0.11	6	0.17	10	0.07	36.51	4.64	7.4	2.0	4.4	2.2	7.3	7.5	18.0	12.8	42.0	<50	0.66	19.0	<0.20
Max.	7.6	0.70	349	271	160	26021	13304	183	11.4	9.2	19			0.01		1.04	108	7.37	483	0.23	98.70	98.47	8.2	6.0	18.4	15.0	8.3	462.0	1027.0	821.0	42.0	<50	0.66	19.0	<0.20
Total																																			
Average	7.0	<0.16	51	39	27	4148	2246	9	10.1	8.3	5			<0.01		0.43	38	3.01	237	0.14	87.11	85.12	7.7	3.4	8.9	6.0	7.7	54.3	163.4	130.7	42.0	<50	0.66	19.0	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
03/01/2017	9,930	8,930	7,860	6,800	13,360	9,180	10.00	8.93	2,217,600	2,318,400	69,359	62,374	1,761	28,171	2,787	29,571	69	84	5,800	5,030	4,550	3,890	13,490	14,290	8.70	10.00	2,980,800	2,001,600	59,860	51,913	1,308	12,000	2,633	23,839	69	80
03/02/2017	9,570	9,420	7,510	7,150	13,840	10,250	8.87	10.00	2,275,200	2,318,400	66,844	65,796	4,475	39,083	3,393	39,286	62	78	5,820	5,490	4,590	4,310	12,530	13,010	8.45	9.97	2,952,000	2,203,200	60,067	56,661	1,859	17,055			70	71
03/03/2017	10,470	8,510	8,600	7,370	11,310	14,080	9.37	10.00	2,318,400	1,526,400	73,130	59,440	3,199	30,739	3,077	31,117	48	55	5,890	5,670	5,580	4,800	13,560	13,220	10.00	10.00	2,865,600	1,987,200	86,694	58,519	3,010	28,800			63	67
03/04/2017	9,070	6,540	7,110	6,350	11,660	4,190	10.00	10.00	2,260,800	1,267,200	63,352	45,680					55	61	6,160	5,990	5,570	5,440	13,810	9,040	10.00	10.00	2,923,200	2,160,000	63,576	61,821					70	70
03/05/2017	9,980	9,130	8,240	8,190	8,820	8,400	10.00	10.00	2,188,800	2,937,600	69,708	63,771					62	77	5,820	7,100	5,650	5,880	11,490	1,660	10.00	10.00	2,923,200	2,073,600	60,067	73,277					81	82
03/06/2017	9,220	9,450	7,300	7,030	12,830	10,210	10.00	10.00	2,275,200	2,880,000	64,399	66,006	3,163	36,516	2,757	35,934	67	83	6,620	6,620	5,220	5,030	12,320	12,700	10.00	10.00		3,211,200	68,323	68,323					83	89
03/07/2017	9,750	9,340	7,540	6,860	12,370	10,240	9.51	10.00	2,174,400	2,433,600	68,101	65,238	3,668	35,885	3,015	35,885	70	84		5,400		4,170	12,690	14,760	10.00	9.40		2,232,000		55,732						72
03/08/2017	9,890	11,370	7,880		10,690	15,820	9.89	10.00	2,289,600	2,289,600	69,079	79,417	5,501	61,875	6,945	62,192	66	69		10,540		8,410	14,780	13,260	10.00	7.88		2,707,200		108,781						56
03/09/2017	9,000	8,660	7,090	6,900	12,300	9,600	10.00	10.00	2,289,600	2,318,400	62,863	60,488	7,861	82,213	7,105	82,870	70	84		5,210		4,480	12,980	14,840		10.00		2,548,800		53,771						94
03/10/2017	9,370		7,330		11,280		10.00	10.00	2,203,200	590,400	65,447						65		6,240	5,950	5,010	4,720	12,290	13,500	10.00	10.00	2,304,000	1,886,400	64,401	61,408					75	76
03/11/2017	9,680		6,530		12,610		9.89	0.00	2,116,800		67,612		2,893	35,043			54		7,940	6,640	6,280	5,090	14,810	12,550	9.65	10.00	2,188,800	1,771,200	81,947	68,530					66	62
03/12/2017	9,600		7,130		9,740		10.00		2,116,800		67,054		3,760	35,752			65		5,780	6,240	5,150	4,470	12,980	12,730	9.72	10.00	2,217,600	1,742,400	59,654	64,401					113	71
03/13/2017	9,780		8,440		7,340		10.00		2,116,800		68,311		2,734	33,658			64		6,790	3,910	6,050	3,890	13,180	12,370	9.70	9.50	2,217,600	1,771,200	70,078	40,354					103	128
03/14/2017	8,590		6,690		12,120		8.91		2,217,600		59,999						65		8,460	6,940	6,700	5,590	15,360	13,930	9.13	9.82	2,246,400	1,728,000	87,314	71,626					89	88
03/15/2017	8,140		6,230		11,320		0.00		2,246,400		56,856						74		7,850	6,670	6,410	5,440	14,530	12,210	9.33	10.00	2,289,600	1,771,200	81,018	68,839	9,874	76,410			97	105
03/16/2017	9,960		8,060		12,500		10.00		2,318,400		69,568						54		9,050	7,030	7,620	5,950	15,570	14,800	9.45	9.95	2,246,400	1,872,000	93,403	72,555	7,824	64,788	3,706	33,944	72	74
03/17/2017	8,650		6,690		11,380		10.00		2,131,200		60,418						73		7,290	6,680	6,050	5,370	14,670	13,120	9.47	10.00	2,289,600	1,828,800	75,238	68,943	3,787	32,797	3,453	33,006	100	91
03/18/2017	8,420		6,110		11,870		10.00		2,203,200		58,812						72		7,760	6,820	6,150	5,490	14,170	13,980	9.54	10.00	2,275,200	1,828,800	80,089	70,388					94	103
03/19/2017	8,500		6,590		12,170		9.95		2,260,800		59,370						74		7,730	7,380	6,140	5,910	15,010	13,110	10.00	9.09	2,275,200	1,785,600	79,779	76,167	4,427	36,382			97	106
03/20/2017	8,930		6,810		13,800		10.00		22,507,200		62,374		3,939	36,250			58		7,550	6,970	5,780	5,440	14,580	14,370	9.70	10.00	1,944,000	1,814,400	77,922	71,936					74	79
03/21/2017	8,550		6,500		13,170		9.58		2,232,000		59,720						74		6,210	7,370	3,250	4,370	14,930	14,160	9.93	9.38	2,188,800	1,872,000	64,092	76,064	6,055	50,982	5,947	50,699	108	95
03/22/2017	8,940		6,940		13,220		9.51		2,304,000		62,444						60		6,990	6,890	5,560	5,480	14,300	13,190	9.48	10.00	2,260,800	1,915,200	72,142	71,110	5,398	46,032	5,076	44,295	76	81
03/23/2017	8,720		6,700		12,640		10.00		2,275,200		60,907		4,948	45,496			69		6,430	5,560	5,910	5,450	13,920	12,660	9.45	10.00	2,260,800	1,872,000	66,362	57,383	3,067	26,788	2,911	26,788	95	110
03/24/2017	8,730		6,820		12,250		10.00		2,275,200		60,977		2,897	25,841			65		7,880	7,000	6,330	5,660	13,970	14,390	9.49	10.00	2,246,400	1,742,400	81,328	72,245	5,329	45,298	5,323	44,554	75	86
03/25/2017	8,350		6,410		13,430		5.79		2,217,600		58,323						71		7,360	6,950	5,780	3,600	14,870	15,670	6.97	6.62	2,203,200	1,771,200	75,961	71,729	3,327	28,016	3,210	26,992	86	99
03/26/2017	8,480		6,760		12,650		10.00		2,174,400		59,231		5,462	48,763			68		6,940	7,080	5,830	5,780	13,570	13,820	9.51	10.00	2,217,600	1,742,400	71,626	73,071					88	95
03/27/2017	8,450		6,570		11,890		8.70		2,318,400		59,021		2,737	24,435			81		6,730	6,880	5,310	5,520	14,260	14,820	8.43	7.82	2,232,000	1,742,400	69,459	71,007	5,432	48,000	4,155	35,300	94	99
03/28/2017	9,590		7,410		12,940		10.00		2,304,000		66,984		4,676	43,500			58		7,860	4,900	6,180	3,940	13,860	12,200	9.68	9.66	2,232,000	1,944,000	81,121	50,572	2,729	23,115	4,242	35,300	53	82
03/29/2017	8,220		6,320		13,280		10.00		2,044,800		57,415		3,074	28,394			73		6,860	6,330	5,380	5,050	14,240	13,590	10.00	10.00	2,260,800	1,785,600	70,800	65,330	5,362	44,250			88	87
03/30/2017	8,300		6,600		13,480		10.00		2,131,200		57,973		4,988	45,000			65		6,800	5,820	5,390	4,630	13,390	13,450	10.00	10.00	2,246,400	1,857,600	70,181	60,067	-5,362	26,893			91	95
03/31/2017	8,240		6,390		13,680		10.00		2,116,800		57,554		1,564	28,228			70		6,150	4,750	4,860	3,870	14,060	13,360	10.00	10.00	2,217,600	1,814,400	63,473	49,024	4,925	42,000	0	0	89	70
MMAVG																																				
Min.	8,140	6,540	6,110	6,350	7,340	4,190	0	0	2,044,800	590,400	56,856	45,680	1,564	24,435	2,757	29,571	48	55	5,780	3,910	3,250	3,600	11,490	1,660	7	7	1,944,000	1,728,000	59,654	40,354	-5,362	12,000	0	0	53	56
Max.	10,470	11,370	8,600	8,190	13,840	15,820	10	10	22,507,200	2,937,600	73,130	79,417	7,861	82,213	7,105	82,870	81	84	9,050	10,540	7,620	8,410	15,570	15,670	10	10	2,980,800	3,211,200	93,403	108,781	9,874	76,410	5,947	50,699	113	128
Total									89,121,600	20,880,000	1,963,205	568,210	73,300	744,842	29,079	316,855											63,705,600	60,984,000	2,010,070	2,041,547	68,351	649,606	40,656	354,717		
Average	9,067	9,039	7,070	7,081	12,127	10,219	9	9	2,874,890	2,088,000	63,329	63,134	3,858	39,202	4,154	45,265	66	75	6,956	6,381	5,653	5,068	13,876	13,057	10	10	2,359,467	1,967,226	71,788	65,856	4,021	38,212	3,696	32,247	84	86

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
04/01/2017	13.40	17.13	10.15	1.03	0.292	3.812			35.0	8.7	7.31	72	178	8,046	19,893		7.49	1.0	84		60	9,388	6,705		
04/02/2017	16.89	25.65	11.51	0.00	0.305	7.671			40.0	8.9	7.38	165	280	23,242	39,442		7.42	0.8	80	57	66	11,269	9,297		
04/03/2017	18.64	25.43	14.71	0.35	0.385	9.419			42.0	9.8	7.60	113	184	17,567	28,604		7.59	1.2	83	65	69	12,903	10,727		
04/04/2017	26.46	32.31	22.99	0.55	0.433	17.406			37.0	7.9	7.62	131	158	28,909	34,867		7.48	1.2	74	46	75	16,330	16,551		
04/05/2017	25.53	26.72	18.21	0.00	0.749	13.163			39.0	8.2	7.40	150	108	31,938	22,995		7.36	0.8	67	47	114	14,266	24,273		
04/06/2017	27.10	37.11	19.89	0.96	0.303	17.753			36.0	8.8	7.22	108	178	24,410	40,230		7.38	1.0	64	-61	81	14,465	18,307		
04/07/2017	27.20	28.87	18.04	0.01	0.239	13.680			40.0	8.4	7.52	102	114	23,138	25,861		7.53	1.5	53	38	69	12,023	15,653		
04/08/2017	20.68	22.61	14.47	0.00	0.211	9.012			37.0	8.4	7.42	129	128	22,249	22,076		7.44	1.5	43	26	66	7,416	11,383		
04/09/2017	17.61	22.62	13.47	0.00	0.489	5.940			38.0	8.6	7.37	165	138	24,233	20,268		7.46	0.8	64	48	72	9,400	10,574		
04/10/2017	15.98	17.42	11.43	0.00	0.314	3.596			55.0	9.8	7.56	120	174	15,993	23,190		7.58	1.3	71	53	72	9,462	9,596		
04/11/2017	14.91	16.06	10.24	0.00	0.308	1.999			52.0	9.8	7.69	128	196	15,917	24,372		7.70	1.2	82	62	99	10,197	12,311		
04/12/2017	14.26	16.92	10.31	0.00	0.310	0.942			63.0	10.0	7.68	194	274	23,072	32,586		7.60	0.4	60	46	87	7,136	10,347		
04/13/2017	13.04	15.36	9.06	0.00	0.313	0.000	17,255		46.0	10.0	7.68	185	272	20,119	29,581		7.66	0.7	61	47	102	6,634	11,093		
04/14/2017	12.11	15.51	9.00	0.00	0.320	0.000	46,673		40.0	10.4	6.75	177	304	17,877	30,703		6.70	2.0	81	60	99	8,181	9,999		
04/15/2017	11.58	12.85	7.95	0.01	0.298	0.000	5,924		58.0	10.6	6.68	150	224	14,487	21,633		6.71	2.0	79	50	108	7,630	10,430		
04/16/2017	11.07	12.65	7.49	0.00	0.334	0.000	6,465		65.0	10.0	6.73	176	276	16,249	25,481		6.75	1.0	77	62	93	7,109	8,586		
04/17/2017	10.84	12.66	7.20	0.00	0.291	0.000	40,881		72.0	11.1	7.58	270	398	24,410	35,981		7.65	1.3	93	76	126	8,408	11,391		
04/18/2017	9.85	12.14	6.72	0.00	0.310	0.000	47,207		45.0	11.8	7.61	384	546	31,545	44,853		7.60	1.1	104	80	105	8,543	8,626		
04/19/2017	10.14	12.99	6.85	0.07	0.264	0.000	56,606		40.0	11.1	7.59	336	490	28,415	41,438		7.68	11.0	215	176	225	18,182	19,028		
04/20/2017	10.03	17.59	6.62	0.40	0.273	0.096	72,245		44.0	11.3	7.62	387	602	32,373	50,357		7.65	16.0	318	264	236	26,601	19,741		
04/21/2017	11.83	18.04	7.52	0.22	0.288	0.002			41.0	10.3	7.62	294	776	29,007	76,562		7.58	14.0	167	125	174	16,477	17,167		
04/22/2017	10.45	13.31	6.79	0.00	0.281	0.000	6,973		40.0	11.4	7.70	81	450	7,059	39,219		7.62	6.0	140	107	60	12,201	5,229		
04/23/2017	9.94	12.99	6.65	0.00	0.291	0.000					7.58	264	450	21,885	37,305		7.62	2.7	99	84	114	8,207	9,451		
04/24/2017	9.75	12.16	5.98	0.00	0.290	0.000	74,322		55.0	11.6	7.57	350	632	28,460	51,391		7.64	16.0	278	225	222	22,606	18,052		
04/25/2017	11.15	21.73	6.94	0.80	0.292	0.097	12,401		43.0	11.9	7.52	296	522	27,525	48,541		7.66	17.0	302	237	218	28,083	20,272		
04/26/2017	13.19	16.10	8.53	0.20	0.292	0.177	9,066		42.0	10.6	7.50	239	354	26,291	38,942		7.46	10.0	213	166	179	23,431	19,691		
04/27/2017	11.65	13.62	7.44	0.01	0.294	0.000	27,058		56.0	11.7	7.55	191	278	18,558	27,011		7.57	1.9	95	78	120	9,230	11,659		
04/28/2017	10.86	13.01	7.01	0.00	0.289	0.000	35,030		58.0	12.1	7.33	339	550	30,704	49,815		7.15	2.0	99		84	8,967	7,608		
04/29/2017	10.16	11.68	6.58	0.00	0.304	0.000	65,811		63.0	11.9	7.27	384	626	32,538	53,044		7.15	2.0	85		93	7,202	7,880		
04/30/2017	9.68	13.28	6.22	0.05	0.285	0.000	3,560		50.0	11.6	7.42	447	662	36,087	53,444		7.38	1.2	92	69	90	7,427	7,266		
MMAVG	7.12																								
Min.	9.7	11.7	6.0	0.0		0.000	3,560		35.0	7.9	6.68	72	108	7,059	19,893		6.70	0.4	43	-61	60	6634	5229		
Max.	27.2	37.1	23.0	1.0		17.753	74,322		72.0	12.1	7.70	447	776	36,087	76,562		7.70	17.0	318	264	236	28083	24273		
Total	436.0	546.5	306.0	4.7		104.765	527,477																		
Average	14.5	18.2	10.2	0.2		3.492	32,967		47.31	10.23	7.44	218	351	23410	36323		7.44	4.0	114	86	113	12312	12630		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
04/01/2017	7.10	0.00	38.2		39.0	4,269	4,358	52	8.7	8.7	9.6	<0.01	<0.01	<0.01							45.833	78.539	7.66	3.5	8.6		7.65	8.1	33.6						
04/02/2017	7.01	0.00	43.4	30.2	43.2	6,113	6,085	133	9.0	8.7	8.5	<0.01	<0.01	<0.01		1.51	213				73.818	84.500	7.68	2.0	9.0	5.4	7.55	8.9	27.2	19.2					
04/03/2017	7.07	0.10	86.0	64.0	72.0	13,369	11,193	1380	8.7	9.2	12.9	<0.01	<0.01	<0.01		0.70	109				36.283	53.261	7.74	2.2	1179.2	4.8	7.57	80.0	260.0	201.0					
04/04/2017	7.10	1.10	65.0	36.0	30.6	14,344	6,753	5500	8.1	9.3	35.0	<0.01	<0.01	<0.01		0.79	174	4.61	1017		76.641	58.861	7.63	2.8	7.0	3.8	7.60	12.6	29.2	21.2	58.00	420.00	4.60	24.00	<0.20
04/05/2017	7.02	0.20	37.2	26.4	37.2	7,921	7,921	2800	7.9	9.7	16.5	<0.01	<0.01	<0.01							75.200	65.556	7.67	3.2	7.8	6.0	7.55	13.5	37.0	28.8					
04/06/2017	6.92	0.10	59.0	31.0	51.6	13,335	11,662	1550	8.3	9.2	12.5	<0.01	<0.01	<0.01							52.222	66.854	7.66	4.5	8.2	3.8	7.43	123.0	283.0	212.0					
04/07/2017	6.94	0.20	26.4	18.8	38.4	5,989	8,711	1410	7.5	9.5	18.2	<0.01	<0.01	<0.01							62.353	76.842	7.99	2.8	7.2	3.6	7.82	20.9	41.6	32.4					
04/08/2017	6.91	<0.10	19.8	15.8	37.8	3,415	6,519	965	8.1	9.4	11.2	<0.01	<0.01	<0.01							70.698	84.531	7.90	2.5	8.0	4.0	7.85	22.7	49.8	38.0					
04/09/2017	6.92	<0.10	24.2	16.8	31.2	3,554	4,582	200	8.5	9.4	10.1	<0.01	<0.01	<0.01		0.51	75				81.091	82.464	7.60	2.5	9.0	5.6	7.42	20.7	52.6	40.0					
04/10/2017	6.99	<0.10	23.2	16.0	31.2	3,092	4,158	250	9.1	8.9	11.3	<0.01	<0.01	<0.01		0.45	60				74.000	86.667	7.53	2.4	8.6	5.2	7.39	19.5	39.0	28.8					
04/11/2017	6.91	<0.10	18.2	11.2	19.5	2,263	2,425	6	10.1	6.8	7.6	<0.01	<0.01	<0.01		0.35	44	3.29	409		84.766	90.714	7.55	2.8	9.0	5.0	7.48	27.0	42.4	32.8					
04/12/2017	6.85	<0.10	14.8	8.8	14.3	1,760	1,701	13	10.5	5.5	6.4	<0.01	<0.01	<0.01							92.629	94.599	7.62	2.0	6.4	3.6	7.50	20.3	36.2	27.2					
04/13/2017	6.69	0.10	8.0	4.6	7.4	870	805	27	10.5	6.8	3.1	<0.01	<0.01	<0.01							96.000	97.059	7.55	2.8	6.6	4.4	7.34	23.6	30.0	22.6					
04/14/2017	6.96	0.30	10.2	6.2	8.2	1,030	828	21	10.7	7.1	6.5	<0.01	<0.01	<0.01							95.367	96.645	7.51	2.1	9.0	5.4	7.35	16.8	24.2	18.2					
04/15/2017	6.70	<0.10	8.6	5.6	6.4	831	618	2	10.7	10.6	5.5	<0.01	<0.01	<0.01							95.733	96.161	7.35	2.6	9.2	5.4	7.40	14.1	25.4	18.8					
04/16/2017	6.62	<0.10	8.0	5.4	5.9	739	545	3	11.4	8.1	1.5	<0.01	<0.01	<0.01							96.648	97.101	7.25	2.1	9.6	5.4	7.39	12.0	32.0	27.8					
04/17/2017	6.53	<0.10	7.4	4.2	5.6	669	506	0	11.9	7.9	2.0	<0.01	<0.01	<0.01		0.12	11				97.926	98.141	7.60	2.4	6.0	4.2	7.46	12.9	18.6	13.6					
04/18/2017	6.90	<0.10	8.0	5.8	5.0	657	411	1	11.9	7.8	2.8	<0.01	<0.01	<0.01		0.14	12	0.68	56		98.698	98.535	7.54	2.8	8.8	5.0	7.13	14.7	22.4	17.0					
04/19/2017	6.74	<0.10	8.2	5.2	6.9	693	584	1	11.8	8.0	2.6	<0.01	<0.01	<0.01		0.16	14				97.946	98.327	7.57	2.9	7.8	4.2	7.33	20.9	32.8	25.8					
04/20/2017	6.78	<0.10	10.4	7.2	9.3	870	778	2	12.2	7.7	2.6	<0.01	<0.01	<0.01							97.597	98.272	7.57	3.2	8.8	6.4	7.48	17.7	19.0	13.6		140.00			
04/21/2017	6.89	1.80	8.4	5.4	7.2	829	710	30	12.3	6.0	16.8	<0.01	<0.01	<0.01							97.551	98.918	7.57	5.3	12.0	7.4	7.53	14.9	7.4	5.2					
04/22/2017	6.91	<0.10	9.0	6.8	5.1	784	444	13	12.2	8.0	2.1	<0.01	<0.01	<0.01							93.704	98.000	7.58	4.5	10.4	7.2	7.40	10.8	17.4	12.8					
04/23/2017	6.86	<0.10	5.6	3.4	3.7	464	307	4	12.1	8.1	3.0	<0.01	<0.01	<0.01							98.598	98.756	7.55	2.7	10.0	6.8	7.38	7.1	13.8	8.8					
04/24/2017	6.84	<0.10	8.2	3.8	5.5	667	447	11	12.6	7.8	3.6	<0.01	<0.01	<0.01				0.45	37		98.429	98.703	7.54	3.0	9.2	7.4	7.41	11.1	20.4	15.2					
04/25/2017	6.82	<0.10	110.0	76.0	42.3	10,229	3,934	2	13.0	7.8	3.3	<0.01	<0.01	<0.01		1.70	158				85.709	78.927	7.53	2.9	10.4	7.0	7.28	120.0	323.0	251.0					
04/26/2017	6.74	1.00	74.0	46.0	24.0	8,140	2,640	107	12.2	6.3	18.4	<0.01	<0.01	<0.01							89.958	79.096	7.34	2.7	10.6	6.6	7.14	68.4	197.0	148.0					
04/27/2017	6.65	<0.10	7.8	4.0	5.3	758	515	2	12.8	6.2	2.3	<0.01	<0.01	<0.01							97.225	97.194	7.42	3.1	7.0	3.6	7.31	13.2	16.2	11.2					
04/28/2017	6.79	<0.10	10.0		5.9	906	534	3	13.1	5.8	4.0	<0.01	<0.01	<0.01							98.260	98.182	7.28	3.5	15.8		7.25	14.0	27.4						
04/29/2017	6.56	0.10	8.2		3.8	695	322	2	13.5	7.7	2.7	<0.01	<0.01	<0.01							99.010	98.690	7.27	2.3	7.6		7.20	13.4	29.6						
04/30/2017	6.51	0.01	7.6	3.0	3.5	614	283	1	13.2	8.1	2.8	<0.01	<0.01	<0.01		0.10	8				99.217	98.852	7.32	2.9	8.8	6.4	7.17	10.0	28.4	19.6					
MMAVG													MMAVG			0.59																			
Min.	6.5	0.00	6	3	4	464	283	0	7.5	5.5	2			<0.01		0.10	8	0.45	37		36.28	53.26	7.3	2.0	6.0	3.6	7.1	7.1	7.4	5.2	58.0	140	4.60	24.0	<0.20
Max.	7.1	1.80	110	76	72	14344	11662	5500	13.5	10.6	35			<0.01		1.70	213	4.61	1017		99.22	98.92	8.0	5.3	1179.2	7.4	7.9	123.0	323.0	251.0	58.0	420	4.60	24.0	<0.20
Total																																			
Average	6.8	<0.22	26	17	20	3662	3043	24	10.8	8.0	8			<0.01		0.59	80	2.26	380		85.30	88.30	7.6	2.9	47.9	5.3	7.4	26.4	60.6	48.5	58.0	280	4.60	24.0	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
04/01/2017	8,080		6,240		16,640		10.00		2,232,000		56,437						74		7,420	5,910	5,790	4,680	12,600	12,420	10.00	10.00	2,736,000	2,347,200	76,580	60,996	3,497	29,819			86	98
04/02/2017	7,980		6,080		12,520		10.00		2,073,600		55,738		6,180	50,820			70		7,780	6,170	5,890	4,700	12,730	13,050	10.00	10.00	2,923,200	2,275,200	80,295	63,679					80	86
04/03/2017	7,830		5,890		13,490		10.00		2,174,400		54,691		3,024	28,395			70		7,750	6,370	6,030	4,930	12,300	12,690	10.00	10.00	2,649,600	1,987,200	86,694	65,743	3,039	28,757			88	102
04/04/2017	7,880		6,080		12,380		10.00	0.00	2,160,000		55,040						76		7,380	6,100	5,840	4,880	12,780	12,050	10.00	10.00	2,880,000	2,260,800	76,167	62,957	3,884	35,937	3,714	35,752	95	98
04/05/2017	7,830		5,900		13,080		10.00		2,160,000		54,691						73		7,610	6,440	5,880	4,960	12,490	12,610	10.00	10.00	2,894,400	2,174,400	78,541	66,466	3,971	35,774	3,716	35,447	89	93
04/06/2017	8,450		6,600		13,310		10.00	10.00	2,188,800		59,021		3,698	34,792			68		7,470	6,640	5,820	5,190	12,710	13,260	10.00	10.00	2,836,800	2,088,000	77,096	68,530					87	90
04/07/2017	7,710		5,920		12,720		10.00		2,188,800		53,852						65		7,130	5,540	5,430	4,460	12,730	11,640	10.00	10.00	2,764,800	2,203,200	73,587	57,177	3,891	36,148	3,675	35,961	98	114
04/08/2017	9,000		6,880		14,320		10.00	0.00	2,160,000		62,863						56		8,310	7,220	6,410	5,640	13,940	12,670	10.00	10.00	2,851,200	2,289,600	85,765	74,516	2,838	26,020	3,857	35,932	69	80
04/09/2017	8,680		6,600		13,780		10.00		2,217,600		60,628						50		7,920	6,650	6,130	5,230	13,740	13,610	10.00	10.00	2,779,200	2,145,600	81,740	68,633	4,120	35,954	4,007	35,298	56	63
04/10/2017	8,330				13,080		10.00		2,073,600		58,183		3,882	35,352			64		7,160	5,730			12,310	12,710	10.00	10.00	2,865,600	2,160,000	73,897	59,138					74	84
04/11/2017	8,180		6,290		11,820		10.00		2,160,000		57,135						66		6,310	4,880	4,770	3,730	12,980	12,190	9.81	10.00	2,707,200	2,361,600	65,124	50,365	3,712	50,393	5,476	50,351	71	74
04/12/2017	8,220		6,280		13,170		10.00		2,073,600		57,415						73		6,260	4,580	4,860	3,650	12,760	12,720	9.90	9.91	2,779,200	2,289,600	64,608	47,269	5,274	49,555	5,226	49,260	80	83
04/13/2017	8,360		6,430		13,360		10.00		2,088,000		58,393		4,198	35,639			67		5,640	4,240	4,270	3,290	12,680	12,520	8.47	9.61	2,779,200	2,289,600	58,209	43,760	2,613	21,456	2,464	21,453	90	78
04/14/2017	8,670		6,670		12,770		10.00		2,160,000		60,558						65		6,350	4,380	4,950	3,550	13,050	11,450	9.50	7.45	2,793,600	2,174,400	65,537	45,205	4,150	35,809			74	82
04/15/2017	8,330		6,180		12,400		10.00		2,160,000		58,183						72		5,960	4,660	4,460	3,530	12,800	11,320	9.39	7.23	2,750,400	2,347,200	61,512	48,095	3,939	36,084			81	77
04/16/2017	9,080		5,510		13,550		9.92		2,174,400		63,422						55		6,520	5,100	5,040	4,000	13,330	11,760	8.66	6.81	2,764,800	2,404,800	67,291	52,636	3,997	35,953			63	69
04/17/2017	10,340		7,870		14,800		9.30		2,174,400		72,222		3,980	35,218			53		7,470	5,680	5,740	4,450	15,030	13,040	6.20	8.20	2,764,800	2,088,000	77,096	58,622					67	70
04/18/2017	8,320		6,390		13,970		9.24		2,116,800		58,113						81		6,740	5,130	5,350	4,170	12,910	12,240	8.45	6.84	2,736,000	2,016,000	69,562	52,945	3,837	35,911	3,594	35,915	92	94
04/19/2017	9,960		7,560		15,620		0.64		2,174,400		69,568		3,837	35,806			53		8,080	6,050	6,280	4,810	15,100	13,600	7.00	8.40	2,851,200	1,987,200	83,392	62,441					62	66
04/20/2017	9,670		7,330		14,270		8.98		2,160,000		67,543						60		8,030	6,080	6,300	4,930	15,300	12,900	8.12	6.25	2,880,000	2,102,400	82,876	62,750	4,223	35,940	5,821	55,834	69	82
04/21/2017	8,720		6,590		12,660		10.00		2,232,000		60,907		8,285	71,316			77		7,840	5,160	6,050	4,060	13,810	11,810	7.89	7.79	2,923,200	2,232,000	80,915	53,255					77	76
04/22/2017	8,410		6,360		13,560		9.00		2,131,200		58,742		3,157	27,172			71		7,150	8,810	5,520	7,670	14,140	12,200	8.20	8.87	2,980,800	2,188,800	73,793	90,926	4,146	35,918			84	50
04/23/2017	8,580		6,530		11,750		8.67		2,232,000		59,929						73		7,120	5,510	5,650	4,330	13,560	12,630	8.27	9.02	2,880,000	2,030,400	73,484	56,867	4,158	36,001			93	91
04/24/2017	9,160		6,910		15,710		6.71		2,289,600		63,980		5,524	53,979			69		8,030	4,840	6,250	3,820	14,070	12,290	7.25	7.10	2,822,400	2,073,600	82,876	49,952	5,193	45,549			81	91
04/25/2017	8,740		7,080		13,020		7.03		2,332,800		61,047		3,740	35,060			65		7,580	5,790	5,890	4,830	13,190	11,960	7.47	7.99	2,923,200	2,260,800	78,231	59,757	3,880	35,060	4,537	46,277	79	81
04/26/2017	8,610		6,650		13,540		7.30		2,361,600		60,139		6,916	62,419			65		6,710	4,110	5,440	3,410	13,370	12,740	8.12	8.95	2,937,600	2,073,600	69,252	42,418	7,037	62,803	2,429	25,219	72	75
04/27/2017	8,350		6,360		13,280		7.56		2,203,200		58,323		3,973	37,047			54		6,940	4,830	5,380	3,810	13,430	11,180	7.80	8.68	2,851,200	2,390,400	71,626	49,849	4,162	37,047	6,033	61,935	56	68
04/28/2017	8,240		6,250		12,910		7.16		2,318,400		57,554		6,273	61,006			66		8,780	4,880	6,770	3,830	13,650	11,870	7.59	6.84	2,923,200	2,001,600	90,616	50,365	6,868	62,431	3,605	37,486	65	82
04/29/2017	7,830		5,880		12,320		9.11		2,275,200		54,691		4,006	37,207			63		7,230	5,020	5,570	3,950	14,440	14,320	6.88	7.86	2,620,800	2,275,200	74,619	51,810	4,345	38,164			76	84
04/30/2017	8,080		6,060		11,520		9.36		2,260,800		56,437						68		6,530	5,280	5,170	4,250	13,100	10,920	7.51	8.11	2,880,000	2,188,800	67,394	54,494					90	104
MMAVG																																				
Min.	7,710		5,510		11,520		1	0	2,073,600		53,852		3,024	27,172			50		5,640	4,110	4,270	3,290	12,300	10,920	6	6	2,620,800	1,987,200	58,209	42,418	2,613	21,456	2,429	21,453	56	50
Max.	10,340		7,870		16,640		10	10	2,361,600		72,222		8,285	71,316			81		8,780	8,810	6,770	7,670	15,300	14,320	10	10	2,980,800	2,404,800	90,616	90,926	7,037	62,803	6,033	61,935	98	114
Total									65,707,200		1,785,445		70,673	641,228													84,729,600	65,707,200	2,241,667	1,731,616	96,774	882,483	58,154	562,120		
Average	8,521		6,461		13,377		9	3	2,190,240		59,515		4,712	42,749			66		7,240	5,593	5,618	4,439	13,368	12,412	9	9	2,824,320	2,190,240	74,722	57,721	4,208	38,369	4,154	40,151	78	83

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
05/01/2017	9.79	22.55	7.27	0.30	0.307	0.244	24,567		46.0	11.9	7.60	393	744	32,088	60,747		7.57	1.5	81	67	126	6,614	10,288		
05/02/2017	11.27	13.73	6.16	0.01	0.277	0.000	48,999		42.0	12.9	7.60	414	578	38,913	54,327		7.62	4.1	131	108	138	12,313	12,971		
05/03/2017	9.80	12.39	6.09	0.00	0.299	0.000	47,150		48.0	12.7	7.63	411	792	33,592	64,732		7.61	1.5	105	87	162	8,582	13,241		
05/04/2017	9.17	11.65	6.17	0.01	0.297	0.000	84,597		56.0	12.6	7.46	381	778	29,138	59,500		7.48	1.5	120	90	128	9,177	9,789		
05/05/2017	13.22	30.46	7.27	1.24	0.309	2.838	24,365		44.0	12.8	7.32	84	626	9,261	69,020		7.37	4.0	171		102	18,854	11,246		
05/06/2017	13.58	17.39	9.19	0.12	0.286	0.940			55.0	12.2	7.57	60	332	6,795	37,601		7.54	6.0	177		75	20,047	8,494		
05/07/2017	12.38	18.42	8.33	0.01	0.277	0.146			64.0	12.8	7.48	188	324	19,411	33,453		7.60	4.2	126	95	114	13,009	11,770		
05/08/2017	11.35	14.22	8.15	0.00	0.279	0.000	45,943		46.0	12.7	7.43	242	446	22,907	42,218		7.49	1.0	98	81	104	9,277	9,845		
05/09/2017	10.71	13.24	7.47	0.00	0.278	0.000	58,298		44.0	12.7	7.48	299	518	26,707	46,268		7.57	0.8	108	87	158	9,647	14,113		
05/10/2017	10.28	12.67	6.96	0.00	0.281	0.000	47,324		55.0	12.4	7.53	293	554	25,120	47,497		7.57	0.8	98	86	144	8,402	12,346		
05/11/2017	9.83	12.81	6.81	0.00	0.289	0.000	50,601		53.0	12.4	7.50	300	574	24,595	47,058		7.49	1.2	116	98	137	9,510	11,232		
05/12/2017	9.43	12.17	5.84	0.00	0.270	0.000	57,516		50.0	13.8	7.35	288	466	22,650	36,649		7.45	3.0	128	104	150	10,067	11,797		
05/13/2017	9.30	27.86	5.63	1.00	0.299	1.546	30,385		43.0	13.1	7.40	228	400	17,684	31,025		7.33	10.0	247	205	192	19,158	14,892		
05/14/2017	15.84	15.85	9.75	0.22	0.228	1.643			42.0	10.8	7.56	153	240	20,212	31,705		7.55	7.5	185	158	131	24,440	17,306		
05/15/2017	13.49	17.10	9.12	0.10	0.378	1.281			42.0	12.7	7.47	186	272	20,926	30,602		7.50	13.0	238	186	195	26,777	21,939		
05/16/2017	11.72	14.48	8.17	0.00	0.371	0.000	10,920		62.0	12.8	7.50	222	350	21,699	34,211		7.48	6.0	156	128	156	15,248	15,248		
05/17/2017	10.90	12.96	7.20	0.00	0.341	0.000	32,636		68.0	13.8	7.46	270	440	24,545	39,999		7.44	2.5	123	100	129	11,181	11,727		
05/18/2017	11.34	23.11	6.62	0.50	0.325	0.313	55,437		78.0	13.6	7.42	324	550	30,642	52,017		7.40	2.5	111	91	123	10,498	11,633		
05/19/2017	10.40	11.83	6.42		0.262	0.000	41,056		79.0	13.4	6.92	165	429	14,311	37,210		7.39	2.0	117	93	84	10,148	7,286		
05/20/2017	9.09	10.79	6.02	0.00	0.280	0.000	39,310		61.0	13.7	7.08	159	556	12,054	42,151		7.61	5.0	170	137	102	12,888	7,733		
05/21/2017	8.91	11.23	6.01	0.10	0.250	0.000			65.0	13.4	7.53	366	584	27,197	43,397		7.61	10.0	208	176	182	15,456	13,524		
05/22/2017	9.65	15.53	5.60	0.25	0.281	0.000	37,467		45.0	13.7	7.58	357	694	28,732	55,854		7.60	4.1	134	117	137	10,784	11,026		
05/23/2017	9.17	12.41	5.57	0.00	0.264	0.000	125,763		61.0	14.2	7.51	330	768	25,238	58,735		7.57	4.5	178	143	189	13,613	14,454		
05/24/2017	8.51	10.88	5.52	0.00	0.264	0.000	66,167		55.0	13.8	7.33	333	628	23,634	44,571		7.44	1.9	132	110	170	9,368	12,065		
05/25/2017	9.51	34.47	6.67	1.80	0.258	3.264	10,173		53.0	14.2	7.44	332	790	26,332	62,658		7.42	3.0	115	91	135	9,121	10,707		
05/26/2017	21.20	27.99	11.35	0.30	0.256	4.898			45.0	13.2	6.97	87	326	15,382	57,639		7.20	3.0	92	65	72	16,266	12,730		
05/27/2017	13.99	15.36	9.23	0.00	0.250	1.302	11,239		62.0	13.3	7.37	195	102	22,752	11,901		7.26	4.0	125		90	14,585	10,501		
05/28/2017	11.99	13.82	8.01	0.00	0.255	0.000	15,085		57.0	13.4	7.16	132	484	13,200	48,398		7.05	3.0	100	62	69	10,000	6,900		
05/29/2017	11.81	15.46	8.01	0.10	0.281	0.159			65.0	13.5	7.61	300	606	29,549	59,688		7.65	3.8	123	100	125	12,115	12,312		
05/30/2017	11.47	14.41	8.12	0.02	0.261	0.000	57,870		51.0	14.8	7.65	330	620	31,568	59,309		7.69	7.5	190	144	164	18,175	15,688		
05/31/2017	11.70	17.27	7.66	0.20	0.230	0.000	28,640		56.0	14.2	7.59	342	548	33,372	53,473		7.61	3.8	155	122	171	15,125	16,686		
MMAVG	7.53																								
Min.	8.5	10.8	5.5	0.0		0.000	10,173		42.0	10.8	6.92	60	102	6,795	11,901		7.05	0.8	81	62	69	6614	6900		
Max.	21.2	34.5	11.4	1.8		4.898	125,763		79.0	14.8	7.65	414	792	38,913	69,020		7.69	13.0	247	205	195	26777	21939		
Total	350.8	514.5	226.4	6.3		18.574	1,051,508																		
Average	11.3	16.6	7.3	0.2		0.599	43,813		54.61	13.15	7.44	263	520	23555	46891		7.49	4.1	141	112	134	13240	12306		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
05/01/2017	6.57	<0.00	11.8	8.4	6.6	963	539	1	13.0	8.0	4.1	<0.01	<0.01	<0.01		0.17	14	0.61	50		98.321	98.414	7.33	3.0	9.6	5.4	7.08	10.2	21.8	17.8					
05/02/2017	6.63	<0.10	8.8	4.6	4.6	827	432	6	13.3	6.5	2.6	<0.01	<0.01	<0.01		0.14	13	0.37	35		98.889	98.478	7.51	3.1	7.6	6.6	7.04	7.5	11.6	8.0					
05/03/2017	6.70	<0.10	9.6	4.6	4.7	785	384	12	13.5	7.7	3.2	<0.01	<0.01	<0.01							98.856	98.788	7.48	3.1	8.2	5.6	7.14	5.9	11.8	8.6					
05/04/2017	6.71	<0.10	9.4	6.2	5.3	719	405	9	13.4	7.8	4.3	<0.01	<0.01	<0.01							98.609	98.792	7.43	3.7	12.0	8.4	7.11	8.9	15.4	10.2					
05/05/2017	6.73	<0.10	43.0		31.8	4,741	3,506	1	13.8	7.8	2.9	<0.01	<0.01	<0.01							62.143	93.131	7.43	4.7	13.4		6.89	7.7	20.4						
05/06/2017	6.74	2.00	21.6		14.6	2,446	1,654	3	12.9	6.4	14.9	<0.01	<0.01	<0.01							75.667	93.494	7.41	3.3	10.2		6.96	5.4	14.2						
05/07/2017	6.70	0.00	9.0	3.6	5.9	929	609	0	12.9	6.4	1.9	<0.01	<0.01	<0.01		0.13	13	0.62	64		96.862	97.222	7.59	2.6	10.4	7.2	7.15	6.0	14.2	8.6					
05/08/2017	6.72	<0.10	8.4	5.8	3.3	795	312	7	13.7	8.0	3.2	<0.01	<0.01	<0.01		0.12	11	0.22	21		98.636	98.117	7.34	2.3	13.4	9.6	7.06	4.7	12.0	7.8					
05/09/2017	6.60	<0.10	6.8	3.8	3.5	607	313	2	13.2	6.8	2.8	<0.01	<0.01	<0.01		0.17	15				98.829	98.687	7.46	2.0	11.0	6.4	7.11	6.2	18.4	14.0	28.00	<50.00	<0.50	16.00	<0.20
05/10/2017	6.75	<0.10	9.0	4.6	5.5	772	472	9	13.3	8.1	3.4	<0.01	<0.01	<0.01							98.123	98.375	7.32	2.6	6.8	4.4	7.09	4.4	17.0	11.8					
05/11/2017	6.70	<0.10	9.6	6.2	4.4	787	361	1	13.3	8.0	3.4	<0.01	<0.01	<0.01							98.533	98.328	7.44	2.9	10.4	5.4	7.10	4.6	12.6	8.8					
05/12/2017	6.65	<0.10	7.4	5.2	4.7	582	370	7	13.9	7.9	2.5	<0.01	<0.01	<0.01							98.368	98.412	7.57	2.5	6.6	3.6	7.80	3.5	9.8	6.0					
05/13/2017	6.68	<0.01	22.6	18.4	16.4	1,753	1,272	6	13.9	7.8	2.6	<0.01	<0.01	<0.01							92.807	94.350	8.06	2.0	8.0	4.2	7.85	4.6	10.4	7.0					
05/14/2017	6.69	0.50	40.4	30.6	27.0	5,337	3,567	16	12.4	6.6	12.5	<0.01	<0.01	<0.01		0.72	95	1.05	139		82.353	83.167	7.49	2.1	10.2	7.6	7.13	18.5	53.4	42.0					
05/15/2017	6.71	<0.10	52.0	39.2	38.4	5,850	4,320	7	12.9	5.9	3.2	<0.01	<0.01	<0.01		0.84	95	2.08	234		79.355	80.882	7.52	2.0	7.6	5.8	7.06	16.1	46.0	35.6					
05/16/2017	6.72	<0.10	7.6	5.4	5.2	743	508	3	13.3	6.2	2.2	<0.01	<0.01	<0.01		0.16	16				97.658	97.829	7.33	2.6	7.2	6.0	7.11	5.7	15.8	13.2					
05/17/2017	6.67	<0.10	7.2	5.0	3.8	655	345	2	13.9	6.5	1.8	<0.01	<0.01	<0.01							98.593	98.364	7.42	2.3	6.8	5.0	7.11	5.5	10.4	6.4					
05/18/2017	6.71	0.30	10.8	7.2	9.3	1,021	880	11	14.6	6.7	5.7	<0.01	<0.01	<0.01							97.130	98.036	7.58	3.3	6.8	4.6	7.18	7.2	9.4	5.2					
05/19/2017	6.70	<0.00	9.0	5.8	3.6	781	312	15	1.0	15.4	2.3	<0.01	<0.01	<0.01							97.818	97.902	0.00				7.20	5.6	10.6	6.6					
05/20/2017	6.74	<0.10	7.6	3.6	2.0	576	152	14	14.9	7.7	2.5	<0.01	<0.01	<0.01							98.742	98.633	7.51	2.6	9.4	5.4	7.23	5.0	12.4	7.8					
05/21/2017	7.08	<0.10	7.0	2.2	3.3	520	245	0	14.7	7.8	2.6	<0.01	<0.01	<0.01		0.13	10	0.10	7		99.098	98.801	7.59	2.0	6.4	3.2	7.21	3.5	7.0	4.8					
05/22/2017	6.82	<0.10	7.4	4.6	3.8	596	306	19	15.0	7.6	2.5	<0.01	<0.01	<0.01		0.14	11	0.16	13		98.936	98.934	7.43	2.8	10.4	6.0	7.13	3.8	10.8	6.8					
05/23/2017	6.83	<0.10	8.0	3.2	3.7	612	283	21	14.9	7.5	3.1	<0.01	<0.01	<0.01		0.13	10				98.879	98.958	7.48	2.0	6.2	4.6	7.19	2.8	8.6	4.8					
05/24/2017	6.80	<0.10	8.8	5.4	3.2	625	227	8	15.3	7.3	3.3	<0.01	<0.01	<0.01							99.039	98.599	7.46	3.9	29.2	14.4	7.20	3.3	9.6	6.4					
05/25/2017	6.76	0.10	35.0	23.8	26.4	2,776	2,094	4	15.3	7.3	5.9	<0.01	<0.01	<0.01							92.048	95.570	7.38	5.3	12.2	7.8	7.30	13.2	30.0	22.4					
05/26/2017	7.19	6.00	45.6	33.2	40.8	8,062	7,214	353	13.4	6.9	46.7	<0.01	<0.01	<0.01							53.103	86.012	7.22	2.8	10.0	6.6	7.31	4.6	15.8	9.6					
05/27/2017	6.72	1.30	42.2		36.0	4,924	4,200	8	14.2	6.4	4.2	<0.01	<0.01	<0.01							81.538	58.627	7.28	2.9	10.4		6.78	44.4	163.8						
05/28/2017	6.56	0.10	8.4	4.2	2.1	840	210	8	14.7	7.3	2.5	<0.01	<0.01	<0.01							98.409	98.264	7.12	2.0	9.4	5.2	7.20	3.4	10.6	6.6					
05/29/2017	6.82	<0.10	6.4	3.6	6.6	630	650	0	14.7	7.9	3.1	<0.01	<0.01	<0.01		0.15	15	0.44	43		97.800	98.944	7.50	2.2	7.4	6.0	7.26	3.6	9.6	7.0					
05/30/2017	6.93	0.10	5.8	2.8	4.1	555	392	22	14.8	7.0	4.0	<0.01	<0.01	<0.01		0.15	14				98.758	99.065	7.79	4.6	8.4	4.0	7.24	3.8	12.2	3.4					
05/31/2017	6.87	<0.10	8.8	5.4	5.0	859	488	18	15.1	7.4	2.3	<0.01	<0.01	<0.01							98.538	98.394	7.71	2.8	10.6	5.8	7.41	5.1	13.0	8.4					
MMAVG														MMAVG		0.59																			
Min.	6.6	<0.00	6	2	2	520	152	0	1.0	5.9	2			<0.01		0.12	10	0.10	7		53.10	58.63	0.0	2.0	6.2	3.2	6.8	2.8	7.0	3.4	28.0	<50	<0.50	16.0	<0.20
Max.	7.2	6.00	52	39	41	8062	7214	353	15.3	15.4	47			<0.01		0.84	95	2.08	234		99.10	99.06	8.1	5.3	29.2	14.4	7.9	44.4	163.8	42.0	28.0	<50	<0.50	16.0	<0.20
Total																																			
Average	6.7	<0.40	16	9	11	1699	1194	6	13.5	7.5	5			<0.01		0.24	26	0.63	67		92.98	95.15	7.2	2.9	9.9	6.1	7.2	7.6	20.6	10.9	28.0	<50	<0.50	16.0	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
05/01/2017	8,060		6,070		12,370		9.19		2,188,800		56,297		7,046	73,342			79		6,750	5,640	5,240	4,530	13,670	12,040	7.93	7.39	2,620,800	2,116,800	69,665	58,209	8,042	73,606			96	112
05/02/2017	8,230		6,300		13,030		9.58		1,915,200		57,484		2,621	27,284			63		5,830	4,310	4,520	3,360	13,050	11,960	8.17	7.58	2,880,000	2,116,800	60,170	44,482	2,948	26,985			90	93
05/03/2017	8,120		6,000		12,700		8.91		2,304,000		56,716		2,537	23,952			68		7,000	5,790	5,350	4,520	13,390	11,900	6.28	6.72	2,966,400	2,419,200	86,694	59,757	2,675	23,952			89	95
05/04/2017	7,950		5,750		12,950		9.27		2,260,800		55,529		2,167	20,457			69		7,920	5,890	6,100	4,680	13,080	12,630	7.49	7.27	2,822,400	1,929,600	81,740	60,789	5,120	47,272	2,728	28,000	90	95
05/05/2017	8,190		6,210		12,880		8.45		2,361,600		57,205		3,133	28,815			66		7,200	6,060	5,570	4,780	12,970	12,420	6.20	6.56	2,577,600	1,987,200	74,309	62,544	6,910	64,807	7,226	72,593	90	96
05/06/2017	8,180		6,140		12,090		9.66		2,304,000		57,135						69		6,570	4,660	5,000	3,670	13,300	12,230	7.27	8.81	2,908,800	2,073,600	67,807	48,095					91	92
05/07/2017	8,240		6,150		12,730		9.58		2,174,400		57,554						61		7,040	4,650	5,320	3,580	13,630	14,020	6.62	8.04	2,736,000	1,944,000	72,658	47,991	3,247	28,914	3,155	28,821	78	80
05/08/2017	7,890		6,040		11,800		8.80		2,275,200		55,110		2,743	27,543			72		6,830	4,980	5,190	3,840	13,320	13,330	6.95	8.34	2,908,800	2,390,400	70,491	51,397					88	90
05/09/2017	8,030		5,860		12,540		9.76		2,318,400		56,088						69		7,000	5,470	5,420	4,470	13,430	12,130	8.90	7.56	2,822,400	1,987,200	72,245	56,455	3,938	35,000	3,798	35,000	93	88
05/10/2017	8,170		6,000		13,610		9.58		2,318,400		57,065		2,879	2,743			61		7,350	5,370	5,590	4,200	14,670	13,400	7.28	8.49	2,707,200	1,958,400	75,858	55,422	2,099	18,350	2,044	18,840	88	101
05/11/2017	8,550		6,290		13,100		9.19		2,275,200		59,720						64		7,550	5,700	5,740	4,450	13,600	12,600	6.96	8.14	2,822,400	2,016,000	77,922	58,828	4,355	38,400	4,035	38,400	86	88
05/12/2017	8,870		6,480		13,260		7.77		2,952,000		61,955		291	2,776			68		7,220	6,300	5,590	5,000	13,310	12,930	7.55	6.75	2,952,000	2,203,200	74,516	65,021	2,137	18,844	1,998	19,015	91	110
05/13/2017	9,780		7,270		14,930		8.80		2,232,000		68,311						48		8,210	7,610	6,290	5,970	17,010	14,050	6.50	7.30	2,793,600	2,361,600	84,733	78,541					61	92
05/14/2017	9,900		7,480		15,300		9.80		2,217,600		69,149						51		7,260	4,800	5,660	3,740	15,740	13,780	8.00	10.00	2,952,000	2,347,200	74,929	49,540					63	71
05/15/2017	8,080		5,980		13,310		9.39		2,260,800		56,437						69		6,500	4,380	4,900	3,350	14,360	13,090	6.98	8.60	2,779,200	2,088,000	67,085	45,205					75	80
05/16/2017	8,780		6,560		13,440		9.28		2,217,600		61,326						67		6,920	5,150	5,330	4,060	14,210	13,690	6.70	8.24	2,822,400	2,059,200	71,420	53,152					94	93
05/17/2017	8,850		6,640		13,630		8.68		2,332,800		61,815						64		7,030	5,090	5,420	4,040	14,420	13,700	6.15	7.79	2,678,400	2,044,800	72,555	52,533	9,389	79,225	8,569	75,055	83	92
05/18/2017	9,000		6,720		14,200		7.81		2,318,400		62,863		7,975	72,996			64		7,520	5,500	5,790	4,300	14,470	13,120	7.63	7.23	2,836,800	2,289,600	77,612	56,764	2,990	25,132	2,718	24,478	88	95
05/19/2017	8,730		6,460		13,500		8.00		2,131,200		60,977		3,613	33,610			65		8,180	5,050	6,230	3,960	14,940	13,880	7.10	6.77	2,764,800	2,059,200	84,424	52,120	4,340	35,260	3,954	36,077	86	101
05/20/2017	9,140		6,880		13,040		8.39		2,232,000		63,841						50		7,520	6,030	5,810	4,810	14,520	13,710	7.46	7.38	2,736,000	2,001,600	77,612	62,234					69	71
05/21/2017	9,540		7,170		13,950		8.39		2,260,800		66,635						60		8,290	6,140	6,290	5,050	14,580	13,250	7.35	7.26	2,865,600	2,332,800	85,559	63,369	3,488	28,683	3,182	28,791	69	80
05/22/2017	8,980		7,220		14,250		8.13		2,217,600		62,723		3,404	29,260			60		7,420	5,430	6,110	5,200	14,670	14,010	7.25	6.53	2,952,000	2,030,400	76,580	56,042					81	96
05/23/2017	8,960		6,590		13,150		8.28		2,318,400		62,583						67		8,270	6,600	6,240	5,060	14,870	14,500	7.33		2,635,200	2,203,200	85,353	68,117	3,435	29,109	3,283	28,948	88	99
05/24/2017	9,190		7,020		13,690		7.90		2,318,400		64,190		8,571	76,410			58		8,320	6,980	6,350	5,550	15,180	13,180	7.02	6.66	2,894,400	2,217,600	85,869	72,039	9,674	76,410			77	80
05/25/2017	8,620		6,310		13,560		8.08		2,174,400		60,209		3,694	32,387			65		7,750	6,810	5,940	5,380	10,820	13,540	7.34	6.72	2,908,800	2,304,000	79,986	70,284	10,863	89,335	6,578	57,528	93	100
05/26/2017	7,990		5,940		12,480		9.32		2,260,800		55,808		4,967	46,352			69		4,020	6,840	3,300	5,180	13,690	13,690	8.37	9.53	2,880,000	1,958,400	41,489	70,594	3,929	33,431	3,988	34,989	157	53
05/27/2017	8,920		6,690		12,560		9.45		2,232,000		62,304						62		7,170	4,700	5,430	3,620	14,100	12,640	8.48	9.20	2,908,800	2,232,000	74,000	48,508	2,767	24,026	2,499	23,975	84	83
05/28/2017	8,770		6,500		13,140		9.26		2,160,000		61,256						64		7,220	5,080	5,530	4,020	14,220	12,560	8.26	8.68	2,880,000	2,419,200	74,516	52,429					87	91
05/29/2017	8,920		6,720		13,830		9.15		2,145,600		62,304						48		7,410	5,470	5,540	4,240	14,640	13,440	8.26	9.04	2,908,800	2,419,200	76,477	56,455					61	66
05/30/2017	8,480		6,290		12,710		9.19		2,160,000		59,231		5,492	49,621			70		7,840	5,570	5,910	4,240	14,280	13,900	9.03	8.18	2,736,000	2,016,000	80,915	57,487	1,191	9,562			86	86
05/31/2017	8,520		6,230		13,670		7.82		2,246,400		59,510		792	6,945			65		7,960	5,310	6,040	4,160	14,750	13,990	7.68	7.47	2,534,400	2,059,200	82,153	54,803	5,133	41,059	1,334	11,739	91	90
MMAVG																																				
Min.	7,890		5,750		11,800		8		1,915,200		55,110		291	2,743			48		4,020	4,310	3,300	3,350	10,820	11,900	6	7	2,534,400	1,929,600	41,489	44,482	1,191	9,562	1,334	11,739	61	53
Max.	9,900		7,480		15,300		10		2,952,000		69,149		8,571	76,410			79		8,320	7,610	6,350	5,970	17,010	14,500	9	10	2,966,400	2,419,200	85,869	78,541	10,863	89,335	8,569	75,055	157	112
Total									70,084,800		1,869,330		61,925	554,493													87,192,000	66,585,600	2,322,893	1,789,206	98,670	847,362	61,089	562,249		
Average	8,633		6,450		13,271		9		2,260,800		60,301		3,870	34,656			64		7,260	5,592	5,572	4,420	14,093	13,204	7	8	2,812,645	2,147,923	74,932	57,716	4,699	40,351	3,818	35,141	86	89

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
06/01/2017	10.30	12.12	6.79	0.00	0.298	0.000	63,982		68.0	13.9	7.42	372	722	31,956	62,021		7.53	3.5	142	119	155	12,198	13,315		
06/02/2017	9.55	12.04	6.15	0.00	0.238	0.000	60,025		60.0	14.1	7.31	476	688	37,912	54,797		7.24	3.0	140		152	11,151	12,106		
06/03/2017	9.12	12.34	5.80	0.00	0.255	0.000	16,598		58.0	14.3	7.34	510	674	38,791	51,265		7.30	2.0	115		119	8,747	9,051		
06/04/2017	9.20	25.96	6.03	0.40	0.246	3.735			61.0	14.2	7.38	320	732	24,553	56,165		7.44	3.4	142	111	134	10,895	10,282		
06/05/2017	11.61	25.17	7.60	0.70	0.246	7.025	14,280		57.0	14.4	7.47	251	500	24,304	48,414		7.45	2.0	114	84	123	11,038	11,910		
06/06/2017	16.80	24.54	11.74	0.90	0.248	4.707			46.0	14.8	7.64	312	342	43,715	47,918		7.54	2.0	93	74	102	13,030	14,291		
06/07/2017	15.25	16.59	9.97	0.00	0.244	7.410			58.0	14.8	7.61	234	388	29,761	49,348		7.52	1.5	85	58	110	10,811	13,990		
06/08/2017	12.95	15.44	8.48	0.00	0.255	0.000	76,576		67.0	14.4	7.60	254	530	27,433	57,242		7.57	1.9	95	74	116	10,260	12,528		
06/09/2017	11.86	14.88	8.17	0.00	0.245	0.000	42,636		65.0	14.3	7.51	93	596	9,199	58,952		7.40	6.0	130		111	12,859	10,979		
06/10/2017	10.34	11.80	7.16	0.00	0.235	0.000	16,886		80.0	15.1	7.22	66	608	5,692	52,431		7.30	5.0	70		78	6,036	6,726		
06/11/2017	9.86	12.37	6.68	0.00	0.269	0.000	3,549		83.0	15.0	7.28	354	590	29,110	48,517		7.40	7.2	184	158	158	15,131	12,993		
06/12/2017	9.19	12.32	5.58	0.00	0.241	0.000	51,817		74.0	14.9	7.32	366	612	28,052	46,906		7.30	3.9	126	102	132	9,657	10,117		
06/13/2017	8.84	11.48	5.63	0.01	0.261	0.000	40,792		75.0	15.8	7.52	410	784	30,227	57,801		7.41	7.5	216	190	209	15,925	15,409		
06/14/2017	8.19	11.40	4.94	0.00	0.184	0.000	72,919		70.0	15.0	7.53	371	738	25,341	50,409		7.52	6.5	148	131	156	10,109	10,656		
06/15/2017	8.02	11.07	4.46	0.00	0.166	0.000	60,967		60.0	15.0	7.55	465	1056	31,102	70,632		7.49		184	68	211	12,307	14,113		
06/16/2017	8.15	17.50	4.91	0.50	0.171	0.035	58,390		60.0	15.8	7.51	405	954	27,528	64,844		7.55	3.0	107	86	152	7,273	10,332		
06/17/2017	8.47	10.48	4.50	0.00	0.173	0.000	6,860		58.0	15.6	7.53	395	624	27,903	44,079		7.52	3.0	77	61	114	5,439	8,053		
06/18/2017	7.74	9.61	4.40	0.00	0.176	0.000			72.0	16.8	7.48	293	648	18,914	41,829		7.45	2.1	119	94	125	7,682	8,069		
06/19/2017	8.65	18.37	4.47	0.50	0.190	0.712	13,488		74.0	16.2	7.64	390	734	28,135	52,951		7.48	10.0	244	201	218	17,602	15,727		
06/20/2017	7.75	10.61	4.08	0.00	0.121	0.000	65,033		76.0	16.9	7.74	354	828	22,881	53,518		7.60	1.9	117	90	132	7,562	8,532		
06/21/2017	7.41	9.85	4.04	0.00	0.099	0.000	27,020		69.0	16.8	7.73	330	904	20,394	55,867		7.58	1.1	103	83	135	6,365	8,343		
06/22/2017	7.43	9.61	4.20	0.00	0.188	0.000	41,082		70.0	17.2	7.64	375	1116	23,237	69,154		7.48	5.2	207	154	218	12,827	13,509		
06/23/2017	7.28	9.94	0.00	0.01	0.278	0.000	46,626		64.0	17.8	7.65	234	828	14,207	50,272		7.53	5.9	178	98	134	10,807	8,136		
06/24/2017	6.58	10.41	4.02	0.00	0.229	0.000	11,814		80.0	17.4	7.25	108	296	5,927	16,244		7.48	22.0	157	123	153	8,616	8,396		
06/25/2017	7.88	26.64	4.13	0.40	0.206	0.443	2,817		73.0	17.4	7.51	480	1230	31,545	80,835		7.53	11.0	213	172	185	13,998	12,158		
06/26/2017	6.96	9.82	4.20	0.02	0.178	0.000	38,197		76.0	18.1	7.59	330	596	19,155	34,596		7.51	1.4	120	94	197	6,966	11,435		
06/27/2017	7.37	17.57	3.91	0.20	0.191	0.153	32,876		63.0	17.6	7.68	414	692	25,447	42,534		7.61	1.3	116	93	219	7,130	13,461		
06/28/2017	6.80	9.77	3.40	0.00	0.214	0.000	39,264		56.0	17.3	7.64	327	532	18,545	30,171		7.42	1.8	128	91	222	7,259	12,590		
06/29/2017	6.69	9.42	3.14	0.00	0.193	0.000	34,188		57.0	17.4	7.55	365	520	20,365	29,013		7.39	11.0	280	240	288	15,622	16,069		
06/30/2017	7.89	25.42	3.70	0.25	0.171	0.309	45,981		71.0	17.8	7.43	78	620	5,133	40,798		7.08	5.0	175	134	138	11,515	9,081		
MMAVG	7.87																								
Min.	6.6	9.4	0.0	0.0		0.000	2,817		46.0	13.9	7.22	66	296	5,133	16,244		7.08	1.1	70	58	78	5439	6726		
Max.	16.8	26.6	11.7	0.9		7.410	76,576		83.0	18.1	7.74	510	1230	43,715	80,835		7.61	22.0	280	240	288	17602	16069		
Total	274.1	434.5	162.3	3.9		24.529	984,663																		
Average	9.1	14.5	5.4	0.1		0.818	37,872		66.70	15.87	7.51	324	689	24215	50651		7.45	4.9	144	115	157	10561	11412		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
06/01/2017	6.92	<0.10	5.8	3.8	4.1	498	352	8	15.4	7.0	2.9	<0.01	<0.01	<0.01							98.898	99.197	7.79	2.5	8.4	5.6	7.28	5.8	11.2	6.8					
06/02/2017	6.81	<0.10	8.8		3.6	701	287	2	15.4	7.6	2.5	<0.01	<0.01	<0.01							99.244	98.721	7.58	2.0	7.6		6.86	4.4	14.2						
06/03/2017	6.65	0.10	10.6		2.7	806	205	4	15.3	7.6	2.8	<0.01	<0.01	<0.01							99.471	98.427	7.39	2.1	10.6		6.85	5.3	16.2						
06/04/2017	6.68	0.10	15.6	10.6	8.7	1,197	668	0	15.4	7.7	2.4	<0.01	<0.01	<0.01		0.24	18	0.61	47		97.281	97.869	7.59	2.0	8.8	4.8	7.20	4.2	11.0	7.8					
06/05/2017	6.66	<0.10	13.8	7.2	9.8	1,336	949	10	15.7	6.3	3.6	<0.01	<0.01	<0.01		0.32	31	1.54	149		96.096	97.240	7.41	2.0	9.0	5.0	7.16	11.7	19.6	10.6					
06/06/2017	6.64	<0.10	41.2	29.0	46.8	5,773	6,557	7	15.1	5.1	3.6	<0.01	<0.01	<0.01		0.83	116	4.45	623		85.000	87.953	7.56	2.3	7.8	5.6	7.22	24.6	51.8	38.4					
06/07/2017	6.65	0.20	12.0	8.6	11.0	1,526	1,399	23	14.2	5.8	10.4	<0.01	<0.01	<0.01							95.299	96.907	7.40	2.0	11.6	9.8	7.09	5.4	16.0	12.2	30.00	72.00	0.67	13.00	<0.20
06/08/2017	6.74	<0.10	6.8	3.2	3.6	734	389	8	14.9	5.7	2.1	<0.01	<0.01	<0.01							98.583	98.717	7.58	2.0	6.6	3.0	7.28	6.2	12.4	9.6					
06/09/2017	6.68	0.10	8.6		3.8	851	376	32	15.2	5.9	3.9	<0.01	<0.01	<0.01							95.914	98.557	7.51	2.2	9.2		6.98	6.6	13.6						
06/10/2017	6.63	0.00	5.6		2.9	483	250	0	15.5	7.3	3.6	<0.01	<0.01	<0.01							95.606	99.079	7.57	2.0	9.0		6.94	3.6	10.6						
06/11/2017	6.51	0.00	6.8	4.0	2.7	559	222	0	15.3	6.8	2.5	<0.01	<0.01	<0.01		0.09	7	0.22	18		99.237	98.847	7.61	2.1	8.8	6.6	7.28	4.2	11.2	7.4					
06/12/2017	6.73	<0.10	8.0	5.2	3.5	613	268	2	16.5	7.1	2.0	<0.01	<0.01	<0.01		0.12	9	0.21	16		99.044	98.693	7.55	2.5	6.6	3.2	7.22	4.5	10.0	7.0					
06/13/2017	6.83	<0.10	6.0	3.0	3.2	442	236	1	17.1	7.1	2.4	<0.01	<0.01	<0.01		0.14	10	0.18	13		99.220	99.235	7.52	2.2	5.8	2.8	7.16	4.8	9.6	7.0					
06/14/2017	6.81	<0.10	6.8	4.4	3.6	464	246	1	17.3	6.8	2.9	<0.01	<0.01	<0.01							99.030	99.079	7.55	2.0	5.4	4.2	7.20	4.6	13.0	9.2					
06/15/2017	6.83	<0.10	7.0	2.6	4.4	468	294	1	17.0	6.6	2.4	<0.01	<0.01	<0.01							99.054	99.337	7.60	2.0	6.2	3.8	7.20	8.2	17.8	12.6					
06/16/2017	6.80	<0.10	7.8	4.6	5.3	530	360	3	17.3	5.6	2.5	<0.01	<0.01	<0.01							98.691	99.182	7.80	2.0	4.6	1.8	7.70	5.2	10.4	7.2					
06/17/2017	6.71	<0.10	7.0	5.0	4.4	494	311	1	17.2	6.5	3.5	<0.01	<0.01	<0.01							98.886	98.878	8.02	2.0	9.4	4.8	7.80	6.5	11.6	7.8					
06/18/2017	6.58	<0.10	8.6	4.4	4.2	555	271	1	17.4	6.5	2.8	<0.01	<0.01	<0.01		0.27	17	0.52	34		98.567	98.673	7.60	2.0	8.2	4.6	7.32	7.8	13.2	8.6					
06/19/2017	6.75	<0.10	8.8	5.4	5.7	635	411	0	18.3	6.2	3.1	<0.01	<0.01	<0.01		0.30	22	0.49	35		98.538	98.801	7.71	2.0	7.4	3.6	7.27	8.1	16.4	11.2					
06/20/2017	7.09	<0.10	6.2	2.0	3.3	401	213	1	18.9	6.3	2.3	<0.01	<0.01	<0.01		0.27	17	0.33	21		99.068	99.251	7.77	2.0	7.8	4.8	7.35	4.1	10.2	6.0					
06/21/2017	6.94	<0.10	7.4	3.6	3.8	457	235	1	18.5	6.2	2.2	<0.01	<0.01	<0.01							98.848	99.181	7.73	2.0	7.2	4.0	7.40	4.8	15.0	11.0					
06/22/2017	7.04	<0.10	7.6	4.4	3.6	471	223	18	18.5	6.4	2.7	<0.01	<0.01	<0.01							99.040	99.319	7.55	2.0	8.2	4.6	7.33	4.6	15.4	11.4					
06/23/2017	6.85	<0.10	0.4	6.4	3.3	24	200	20	19.1	6.1	2.4	<0.01	<0.01	<0.01							98.590	99.952	7.49	2.3	10.8	6.0	7.42	5.6	7.0	10.4					
06/24/2017	6.86	<0.10	8.8	5.4	2.3	483	126	17	20.1	6.6	2.5	<0.01	<0.01	<0.01							97.870	97.027	7.51	2.3	10.4	5.8	7.56	4.7	14.4	8.0					
06/25/2017	6.91	<0.10	19.6	12.4	14.0	1,288	920	10	19.5	6.8	2.6	<0.01	<0.01	<0.01		0.54	35	0.76	50		97.083	98.407	7.74	2.0	6.0	4.8	7.16	5.3	11.8	9.2					
06/26/2017	6.82	<0.10	5.8	4.0	4.0	337	232	27	19.1	8.3	2.1	<0.01	<0.01	<0.01		0.36	21	0.22	13		98.788	99.027	7.65	2.3	6.0	5.0	7.41	4.4	18.0	6.6					
06/27/2017	6.98	<0.10	8.0	6.4	3.6	492	221	4	19.2	6.2	2.5	<0.01	<0.01	<0.01		0.42	26	0.31	19		99.130	98.844	7.71	2.0	10.4	4.6	7.39	5.8	15.2	8.4					
06/28/2017	7.01	<0.10	6.8	2.6	4.1	386	233	0	18.5	6.1	3.1	<0.01	<0.01	<0.01							98.746	98.722	7.66	2.0	-28.4	2.4	7.29	4.8	15.8	6.6					
06/29/2017	7.04	<0.10	8.2	3.4	6.0	458	335	2	18.4	6.2	2.4	<0.01	<0.01	<0.01							98.356	98.423	7.71	2.2	6.0	2.8	7.43	6.3	17.8	12.6					
06/30/2017	6.98	<0.10	14.2	9.2	9.9	934	651	3	19.4	6.2	2.6	<0.01	<0.01	<0.01							87.308	97.710	7.64	2.0	8.6	3.6	7.10	5.4	13.4	8.0					
MMAVG													MMAVG			0.55																			
Min.	6.5	0.00	0	2	2	24	126	0	14.2	5.1	2			<0.01		0.09	7	0.18	13		85.00	87.95	7.4	2.0	-28.4	1.8	6.9	3.6	7.0	6.0	30.0	72	0.67	13.0	<0.20
Max.	7.1	0.20	41	29	47	5773	6557	32	20.1	8.3	10			<0.01		0.83	116	4.45	623		99.47	99.95	8.0	2.5	11.6	9.8	7.8	24.6	51.8	38.4	30.0	72	0.67	13.0	<0.20
Total																																			
Average	6.8	<0.10	10	6	6	813	588	3	17.2	6.6	3			<0.01		0.33	28	0.82	87		97.48	98.31	7.6	2.1	6.8	4.5	7.3	6.3	14.8	10.1	30.0	72	0.67	13.0	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
06/01/2017	9,190		6,820		13,640		8.30		2,260,800		64,190		3,759	33,487			58		9,110	5,440	7,020	4,220	14,260	14,460	7.29	8.58	2,908,800	1,929,600	94,022	56,145	1,155	9,708	5,520	48,053	76	88
06/02/2017	8,890		6,600		13,280		8.55		2,275,200		62,094		209	1,871			59		8,690	5,540	6,610	4,270	13,870	12,920	8.18	7.02	2,707,200	2,016,000	89,687	57,177	1,687	14,203	5,166	47,946	77	86
06/03/2017	9,060		6,660		13,710		9.42		2,131,200		63,282		4,121	36,617			62		8,290	6,070	7,550	3,840	14,040	14,910	7.18	7.82	2,736,000	2,073,600	86,694	62,647			4,469	35,943	89	84
06/04/2017	8,620		6,370		15,170		9.38		2,275,200		60,209		4,377	36,341			67		8,810	5,940	6,560	4,660	15,500	12,570	7.79	6.99	2,952,000	2,016,000	90,926	61,305			632	6,026	87	101
06/05/2017	8,710		6,340		13,070		6.31		2,246,400		60,837		484	4,436			63		8,500	4,760	6,440	3,780	14,790	13,250	8.43	7.35	2,793,600	1,872,000	87,726	49,127			6,458	59,976	85	82
06/06/2017	8,540		6,300		12,240		10.00		2,376,000	0	59,650		525	4,739			63		7,810	4,750	4,290	3,780	14,490	10,860	7.36	7.74	2,563,200	2,520,000	80,605	49,024	6,751	60,136	690	7,098	91	67
06/07/2017	8,440		6,130		12,400		8.50		2,347,200		58,951		6,617	63,989			63		9,170	4,640	7,080	3,630	14,470	11,910	6.48	9.82	2,880,000	2,233,440	94,641	47,888	702	5,285	557	5,364	75	75
06/08/2017	9,100		6,860		12,880		9.61		2,289,600		63,561		510	4,540			56		7,950	3,710	6,070	2,950	14,780	13,120	8.98	6.62	2,880,000	2,160,000	82,050	38,290	748	6,199	6,147	54,233	83	84
06/09/2017	8,170		6,600		12,880		8.99		2,376,000		57,065		766	6,520			65		8,040	4,570	6,070	3,700	14,080	12,870	8.04	5.64	2,520,000	2,059,200	82,979	47,166	6,238	59,959	612	5,621	87	66
06/10/2017	8,270		6,010		11,580		6.91		2,347,200		57,764		3,497	35,988			70		8,300	4,630	6,210	3,610	14,220	12,240	5.06	7.47	2,880,000	2,462,400	85,662	47,785			3,671	35,958	90	84
06/11/2017	8,350		6,100		11,820		6.09		2,275,200		58,323		3,513	35,998			58		9,020	5,160	6,830	4,050	14,320	12,730	4.83	6.61	3,009,600	2,289,600	93,093	53,255			743	6,995	78	78
06/12/2017	8,310		6,770		12,620		6.05		2,260,800		58,043		6,023	59,977			65		9,280	5,700	7,080	3,940	15,230	14,250	6.42	6.93	2,779,200	2,088,000	95,777	58,828	739	5,994	828	6,967	88	79
06/13/2017	8,710		6,430		13,150		4.38		2,376,000		60,837		658	5,996			57		9,560	6,190	6,790	4,860	15,700	12,990	6.14	8.48	2,606,400	2,246,400	98,666	63,885	7,729	60,001	653	5,849	79	76
06/14/2017	8,490		6,350		12,940		4.34		2,160,000		59,301		608	5,634			64		9,400	6,150	7,110	4,870	15,070	12,140	5.97	5.82	2,793,600	2,016,000	97,015	63,473	758	6,040	6,257	59,707	79	78
06/15/2017	8,900		6,560		12,940		5.56		2,174,400		62,164		6,826	63,249			57		10,180	6,060	7,800	4,940	15,310	12,530	5.50	5.21	2,793,600	2,102,400	105,065	62,544	632	4,947			75	78
06/16/2017	8,890		6,450		12,630		5.90		2,289,600		62,094		657	6,392			57		10,250	6,190	7,640	4,810	14,870	13,070	4.99	4.56	2,779,200	1,828,800	105,788	63,885	1,379	10,908	6,509	59,986	76	81
06/17/2017	8,750		6,400		12,580		6.59		2,390,400		61,117		3,807	36,216			57		10,600	6,150	7,940	4,810	15,120	13,140	6.01	8.05	2,520,000	2,088,000	109,400	63,473	4,507	36,038			70	67
06/18/2017	8,610		6,080		11,290		6.77		2,217,600		60,139						59		10,230	6,110	7,410	4,590	14,570	12,320	5.53	7.63	2,865,600	2,160,000	105,581	63,060	7,097	58,406	477	4,641	77	75
06/19/2017	8,760		6,360		11,510		5.88		2,246,400		61,186		5,502	57,869			57		9,950	6,620	7,450	5,210	14,030	11,830	5.14	7.03	2,952,000	2,419,200	102,691	68,323	494	4,140	569	5,400	77	70
06/20/2017	8,570		6,020		12,620		5.39		2,260,800		59,859		495	4,843			58		9,020	6,490	6,440	4,870	14,620	12,610	5.32	6.21	2,649,600	2,433,600	93,093	66,982	7,266	60,005	482	4,583	78	72
06/21/2017	8,230		6,070		12,640		5.35		2,332,800		57,484		638	6,049			61		8,910	5,990	6,670	4,760	14,430	12,890	5.65	7.21	2,836,800	1,972,800	91,958	61,821	527	4,596	6,316	57,225	84	84
06/22/2017	8,670		6,330		12,660		5.89		2,275,200		60,558		5,906	55,156			60		9,660	5,990	7,230	4,780	13,610	12,600	5.56	7.72	2,851,200	2,073,600	99,698	61,821	552	4,719	523	4,976	80	80
06/23/2017	8,260		5,960		12,110		5.26		2,246,400		57,694		482	4,773			56		9,480	6,320	7,010	4,940	14,320	12,340	5.21	6.96	2,649,600	2,116,800	97,841	65,227	7,032	60,013	517	4,800	74	71
06/24/2017							5.59		2,275,200				3,325	30,253											4.87	2.74	2,865,600	2,232,000					1,616	14,850		
06/25/2017	8,760		6,420		12,280		6.23		2,304,000		61,186		3,698	36,104			48		8,700	7,510	6,420	5,790	14,100	11,750	5.45	5.92	2,937,600	2,476,800	89,791	77,509	4,248	36,125	2,274	20,890	58	59
06/26/2017	8,230		5,740		12,130		4.24		2,376,000		57,484		5,364	52,237			55		8,360	7,450	5,920	5,400	13,220	13,640	5.78	5.50	2,808,000	2,116,800	86,281	76,890	764	6,929			77	71
06/27/2017	8,290		6,070		11,290		6.22		2,304,000		57,904		414	4,395			60		8,730	7,450	6,410	5,840	13,380	13,420	5.46	5.88	2,491,200	2,404,800	90,100	76,890	6,605	58,103	600	5,203	84	83
06/28/2017	8,760		6,320		12,030		3.53		2,347,200		61,186		611	6,088			57		9,180	8,400	5,850	6,500	13,920	13,610	3.02	5.47	2,793,600	1,958,400	94,744	86,694	514	4,608	6,722	60,063	78	80
06/29/2017	8,500		6,150		12,310		5.94		2,275,200		59,370		6,139	58,004	0	0	53		8,790	4,590	6,450	3,610	13,150	12,870	5.73	1.66	2,808,000	2,145,600	90,719	47,372	545	4,917	910	8,479	71	65
06/30/2017	8,580		6,240		11,750		5.53		2,275,200		59,929		471	4,864			47		8,950	8,460	6,670	6,490	13,720	12,170	5.36	2.52	2,448,000	2,160,000	92,371	87,314	6,626	59,090	704	6,940	54	59
MMAVG																																				
Min.	8,170		5,740		11,290		4		2,131,200	0	57,065		209	1,871	0	0	47		7,810	3,710	4,290	2,950	13,150	10,860	3	2	2,448,000	1,828,800	80,605	38,290	494	4,140	477	4,583	54	59
Max.	9,190		6,860		15,170		10		2,390,400	0	64,190		6,826	63,989	0	0	70		10,600	8,460	7,940	6,500	15,700	14,910	9	10	3,009,600	2,520,000	109,400	87,314	7,729	60,136	6,722	60,063	91	101
Total									68,587,200	0	1,743,461		80,002	762,625	0	0											83,059,200	64,671,840	2,713,529	1,785,800	75,295	641,069	70,622	643,772		
Average	8,607		6,328		12,557		7		2,286,240	0	60,119		2,759	26,297	0	0	59		9,066	5,967	6,725	4,603	14,386	12,828	6	6	2,768,640	2,155,728	93,570	61,579	3,137	26,711	2,616	23,843	78	77

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
07/01/2017	6.65	8.37	3.70	0.05	0.170	0.000	8,809		80.2	17.8	7.65	235	310	13,033	17,193		7.18	3.0	140	109	156	7,765	8,652		
07/02/2017	6.30	8.32	3.38	0.00	0.166	0.000	3,960		80.0	17.9	7.51	279	290	14,659	15,237		7.19	19.0	343	278	306	18,022	16,078		
07/03/2017	5.98	8.41	3.24	0.08	0.181	0.000	8,743		82.0	19.1	7.28	170	488	8,478	24,338		7.17	13.0	352	264	192	17,555	9,576		
07/04/2017	5.69	7.34	3.49	0.00	0.174	0.000	3,422		85.0	18.3	7.40	294	468	13,952	22,209		7.23	13.0	300	249	246	14,236	11,674		
07/05/2017	5.98	9.24	3.09	0.00	0.191	0.000	50,224		76.0	18.6	7.23	389	690	19,401	34,413		7.22	9.0	268	227	194	13,366	9,675		
07/06/2017	6.02	8.60	2.92	0.00	0.193	0.000	39,443		75.0	18.5	7.30	441	740	22,141	37,153		7.15	6.0	237	196	228	11,899	11,447		
07/07/2017	7.65	19.35	3.08	0.50	0.203	0.085	32,544		69.0	19.2	7.26	666	810	42,491	51,679		6.83	12.0	295		252	18,821	16,078		
07/08/2017	7.62	28.33	3.27	0.80	0.206	0.519	7,473		69.0	18.7	7.34	381	776	24,213	49,315		7.15	12.0	291		294	18,493	18,684		
07/09/2017	6.34	8.53	3.34	0.00	0.201	0.000	16,560		67.0	18.9	7.48	210	412	11,104	21,785		7.51	1.0	139	115	140	7,350	7,403		
07/10/2017	6.35	8.72	2.84	0.10	0.199	0.000	47,287		72.0	19.1	7.36	267	398	14,140	21,078		7.42	2.0	129	99	188	6,832	9,956		
07/11/2017	7.07	23.55	3.36	0.10	0.197	0.208	73,509		64.0	19.0	7.46	359	540	21,168	31,840		7.39	2.1	121	105	210	7,135	12,382		
07/12/2017	6.15	8.67	2.82	0.05	0.198	0.000	45,276		73.0	19.4	7.53	330	472	16,926	24,209		7.36	3.5	180	135	258	9,232	13,233		
07/13/2017	6.31	9.69	3.04	0.10	0.214	0.000	31,189		60.0	18.9	7.64	377	624	19,840	32,838		7.38	14.0	368	282	336	19,366	17,682		
07/14/2017	6.32	11.07	3.50	0.08	0.191	0.000	52,143		58.0	19.8	7.56	156	684	8,223	36,053		7.14	11.0	245		192	12,914	10,120		
07/15/2017	5.93	8.09	3.66	0.00	0.198	0.000	28,315		68.0	19.3	7.30	171	450	8,457	22,255		7.02	14.0	359		200	17,755	9,891		
07/16/2017	5.69	8.46	2.83	0.00	0.213	0.000			77.0	19.2	7.41	230	304	10,915	14,426		7.32	3.6	179	144	179	8,494	8,494		
07/17/2017	5.93	8.46	2.71	0.00	0.212	0.000	32,521		72.0	19.4	7.33	402	488	19,881	24,135		7.43	1.3	123	98	168	6,083	8,309		
07/18/2017	6.37	16.28	0.00	0.15	0.185	0.000	54,684		67.0	19.6	7.37	317	660	16,841	35,063		7.30	24.0	519	410	329	27,572	17,478		
07/19/2017	5.97	8.68	2.42	0.00	0.188	0.000	73,580		73.0	19.7	7.50	366	518	18,223	25,791		7.33	11.0	412	310	359	20,513	17,875		
07/20/2017	5.84	8.83	2.29	0.00	0.189	0.000	79,059		70.0	19.8	7.44	378	574	18,411	27,957		7.36	3.5	202	159	252	9,839	12,274		
07/21/2017	5.48	8.43	2.26	0.00	0.199	0.000	48,160		68.0	20.1	7.38	318	412	14,534	18,830		7.23	1.0	165	117	215	7,541	9,826		
07/22/2017	5.39	9.12	2.67	0.00	0.209	0.000	13,915		71.0	19.8	7.48	222	302	9,979	13,576		7.17	8.0	199	167	234	8,946	10,519		
07/23/2017	5.24	9.00	3.08	0.10	0.216	0.000	3,075		70.0	19.9	7.37	248	306	10,838	13,373		7.42	6.5	87	136	171	3,802	7,473		
07/24/2017	9.20	25.50	3.08	1.60	0.196	1.487			55.0	20.4	7.37	378	630	29,003	48,339		7.46	14.0	316	253	268	24,246	20,563		
07/25/2017	6.39	10.99	2.86	0.10	0.224	0.000	44,183		62.0	19.9	7.40	540	566	28,778	30,164		7.39	22.0	497	389	392	26,486	20,891		
07/26/2017	5.98	10.08	2.92	0.00	0.182	0.000	83,942		79.0	20.8	7.39	465	468	23,191	23,341		7.32	9.0	250	205	282	12,468	14,064		
07/27/2017	6.10	9.96	3.08	0.10	0.262	0.000	40,000		69.0	20.5	7.44	453	438	23,046	22,283		7.34	24.0	491	393	470	24,979	23,911		
07/28/2017	5.90	10.18	3.02	0.00	0.262	0.000	37,210		81.0	21.1	6.56	185	563	9,103	27,703		7.18	19.0	270	214	182	13,286	8,955		
07/29/2017	5.40	8.70	2.71	0.00	0.254	0.000	47,012		70.0	20.3	7.60	225	440	10,133	19,816		7.35	16.0	365	286	185	16,438	8,332		
07/30/2017	5.49	8.68	2.35	0.00	0.251	0.000			72.0	19.9	7.60	312	366	14,285	16,758		7.56	8.0	261	206	288	11,950	13,187		
07/31/2017	5.49	9.44	2.55	0.00	0.254	0.000	40,219		72.0	19.8	7.62	420	458	19,230	20,970		7.53	4.2	180	137	306	8,242	14,011		
MMAVG	8.02																								
Min.	5.2	7.3	0.0	0.0		0.000	3,075		55.0	17.8	6.56	156	290	8,223	13,373		6.83	1.0	87	98	140	3802	7403		
Max.	9.2	28.3	3.7	1.6		1.487	83,942		85.0	21.1	7.65	666	810	42,491	51,679		7.56	24.0	519	410	470	27572	23911		
Total	192.2	347.1	89.6	3.9		2.299	1,046,457																		
Average	6.2	11.2	2.9	0.1		0.074	37,373		71.17	19.44	7.41	329	505	17246	26584		7.29	10.0	267	210	247	13923	12861		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
07/01/2017	6.93	<0.10	9.4	4.6	3.7	521	205	0	20.2	6.6	2.1	<0.01	<0.01	<0.01							98.426	96.968	7.53	2.0	8.2	3.0	7.06	4.3	12.6	8.2					
07/02/2017	6.92	<0.10	6.4	4.8	3.9	336	205	3	20.4	6.7	2.0	<0.01	<0.01	<0.01		0.54	28	0.16	8		98.602	97.793	7.49	2.0	6.8	3.8	6.93	8.8	13.8	10.8					
07/03/2017	6.81	<0.10	9.0	6.2	3.1	449	155	1	20.3	6.5	1.6	<0.01	<0.01	<0.01							98.176	98.156	7.49	2.0	6.6	4.0	6.94	7.8	20.6	13.4					
07/04/2017	6.93	<0.10	8.2	6.4	4.5	389	214	1	20.0	6.4	1.9	<0.01	<0.01	<0.01							98.469	98.248	7.39	4.9	12.8	8.8	6.93	10.0	17.0	13.8					
07/05/2017	6.85	0.10	9.0	6.6	4.0	449	199	0	20.3	5.9	3.0	<0.01	<0.01	<0.01							98.972	98.696	7.63	3.2	7.0	6.6	6.91	6.9	18.8	16.6					
07/06/2017	6.91	<0.10	12.0	9.2	4.2	602	211	1	20.4	5.8	1.6	<0.01	<0.01	<0.01							99.048	98.378					6.97	6.9	19.4	15.6					
07/07/2017	6.86	0.10	12.0		5.9	766	376	1	20.7	5.7	2.8	<0.01	<0.01	<0.01							99.114	98.519	7.39	4.8	8.2		6.90	7.6	19.2						
07/08/2017	6.76	0.10	23.2		15.9	1,474	1,010	8	20.6	6.4	3.0	<0.01	<0.01	<0.01							95.827	97.010	7.37	2.2	6.6		6.97	8.1	17.0						
07/09/2017	6.71	0.10	7.4	4.4	4.1	391	217	6	20.8	6.4	3.4	<0.01	<0.01	<0.01		0.43	23	0.26	14		98.048	98.204	7.44	2.5	10.8	5.2	7.25	6.2	17.2	12.2					
07/10/2017	6.74	<0.10	7.0	6.0	3.9	371	207	10	20.8	6.4	3.8	<0.01	<0.01	<0.01		0.45	24	0.25	13		98.539	98.241	7.45	2.4	23.8	13.8	7.28	4.4	14.4	10.6					
07/11/2017	6.97	<0.10	10.0	7.2	8.7	590	513	6	21.1	5.9	3.7	<0.01	<0.01	<0.01		0.57	34	0.90	53		97.577	98.148	7.38	2.1	8.4	7.0	7.28	7.8	16.2	12.2					
07/12/2017	6.95	<0.10	11.8	8.2	4.5	605	231	1	21.2	5.6	3.9	<0.01	<0.01	<0.01							98.636	97.500	7.37	2.0	9.2	5.8	7.30	5.1	17.6	10.2					
07/13/2017	7.02	0.10	6.8	4.2	4.6	358	242	23	21.8	5.5	3.3	<0.01	<0.01	<0.01							98.780	98.910	7.33	2.2	11.0	6.2	7.23	6.8	19.0	13.0	41.00	54.00	<0.50	25.00	<0.20
07/14/2017	6.87	<0.10	10.8		4.7	569	248	41	20.7	5.6	3.8	<0.01	<0.01	<0.01							96.987	98.421	7.31	2.1	11.8		7.05	4.6	22.6						
07/15/2017	6.76	0.01	13.8		4.5	682	223	31	20.6	6.6	3.5	<0.01	<0.01	<0.01							97.368	96.933	7.26	2.5	14.2		7.07	4.9	23.6						
07/16/2017	6.63	0.00	9.8	3.4	5.5	465	261	8	20.8	6.5	3.9	<0.01	<0.01	<0.01		0.45	21	0.31	15		97.609	96.776	7.27	7.7	51.4	27.8	7.18	6.4	18.4	15.0					
07/17/2017	6.75	<0.10	10.6	7.6	5.5	524	272	70	21.1	6.1	4.2	<0.01	<0.01	<0.01		0.59	29	0.44	22		98.632	97.828	7.39	6.8	29.4	16.4	7.12	9.6	26.8	20.8					
07/18/2017	6.89	<0.10	12.8	5.2	7.2	680	383	7	21.3	5.8	4.7	<0.01	<0.01	<0.01		0.60	32	0.69	37		97.729	98.061	7.46	5.1	28.6	17.2	7.12	10.5	34.6	22.6					
07/19/2017	6.82	<0.10	10.0	5.0	6.5	498	324	11	21.9	6.5	3.7	1.04	<0.01	<0.01							98.224	98.069	7.41	2.0	9.2	4.8	7.28	8.7	23.0	15.8					
07/20/2017	7.01	<0.10	8.6	6.6	6.5	419	317	0	22.0	6.4	3.9	<0.01	<0.01	<0.01							98.280	98.502	7.41	2.4	13.4	6.6	7.23	9.6	23.4	19.6					
07/21/2017	6.87	<0.10	9.4	5.2	4.5	430	206	10	21.9	6.4	3.6	<0.01	<0.01	<0.01							98.585	97.718	7.81	2.5	9.2	4.4	7.88	7.4	20.2	13.2					
07/22/2017	6.63	<0.10	8.0	5.4	4.4	360	198	2	21.8	6.4	3.0	<0.01	<0.01	<0.01							98.018	97.351	7.72	4.2	20.2	11.4	6.80	6.3	17.4	12.4					
07/23/2017	6.57	<0.10	5.4	3.2	5.3	236	232	1	21.8	6.4	3.4	<0.01	<0.01	<0.01		0.63	28	0.91	40		97.863	98.235	7.32	5.2	17.4	10.8	7.03	9.3	21.2	18.0					
07/24/2017	6.77	<0.10	122.6	90.2	52.8	9,407	4,051	0	21.5	5.9	3.6	<0.01	<0.01	<0.01		2.03	156	2.47	190		86.032	80.540	7.40	12.5	20.0	14.4	6.97	7.7	26.4	21.0					
07/25/2017	6.67	<0.10	6.8	6.2	3.7	362	197	30	20.3	6.5	3.2	<0.01	<0.01	<0.01		0.42	22	0.14	7		99.315	98.799	7.45	2.8	6.4	5.6	6.93	6.6	23.4	18.6					
07/26/2017	6.82	<0.10	7.6	6.8	3.6	379	180	40	20.5	6.1	2.1	<0.01	<0.01	<0.01							99.226	98.376	7.56	2.2	5.0	6.0	7.06	14.1	46.8	36.4					
07/27/2017	6.76	<0.10	10.8	8.6	4.8	549	244	50	21.1	5.9	2.5	<0.01	<0.01	<0.01							98.940	97.534	7.48	2.4	22.0	28.0	7.02	11.4	26.4	20.6					
07/28/2017	6.74	0.20	18.4	12.0	5.6	905	276	116	21.1	5.7	3.2	<0.01	<0.01	<0.01							96.973	96.732	7.35	2.1	8.4	4.4	7.00	15.3	44.8	32.8					
07/29/2017	6.90	0.10	9.8	5.8	3.0	441	135	9	21.5	6.6	3.5	<0.01	<0.01	<0.01							98.667	97.773	7.50	2.0	8.6	5.0	7.25	5.5	22.8	15.8					
07/30/2017	6.81	<0.10	5.4	4.6	5.9	247	270	7	21.5	6.7	3.3	<0.01	<0.01	<0.01		0.47	22	0.37	17		98.109	98.525	7.66	2.5	7.8	5.8	7.14	6.2	20.4	13.8					
07/31/2017	6.98	<0.10	7.4	4.0	4.4	339	201	5	21.8	6.1	2.1	<0.01	<0.01	<0.01		0.54	25	0.32	15		98.952	98.384	7.59	2.8	6.0	2.8	7.17	5.1	16.8	11.6					
MMAVG														MMAVG		0.53																			
Min.	6.6	0.00	5	3	3	236	135	0	20.0	5.5	2			<0.01		0.42	21	0.14	7		86.03	80.54	7.3	2.0	5.0	2.8	6.8	4.3	12.6	8.2	41.0	54	<0.50	25.0	<0.20
Max.	7.0	0.20	123	90	53	9407	4051	116	22.0	6.7	5			1.04		2.03	156	2.47	190		99.31	98.91	7.8	12.5	51.4	28.0	7.9	15.3	46.8	36.4	41.0	54	<0.50	25.0	<0.20
Total																																			
Average	6.8	<0.10	14	9	7	800	394	6	21.0	6.2	3			<0.02		0.64	37	0.60	36		97.86	97.40	7.5	3.4	13.6	9.1	7.1	7.7	22.0	16.5	41.0	54	<0.50	25.0	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
07/01/2017	8,820		6,390		12,190		5.36		2,275,200		61,605		3,508	35,143			50		8,200	8,390	6,090	6,450	13,670	13,310	5.08	2.44	2,808,000	2,102,400	84,630	86,591			4,004	36,067	72	70
07/02/2017	8,750		6,320		11,750		5.22		2,217,600		61,117		3,633	36,387			49		8,320	8,250	6,180	6,350	13,600	11,740	5.19	2.89	2,923,200	2,260,800	85,869	85,146			727	7,428	76	79
07/03/2017	8,460		6,170		12,020		4.76		2,304,000		59,091		452	4,557			47		8,760	8,580	6,490	6,490	14,190	11,170	4.72	2.53	2,635,200	2,059,200	86,694	88,552					61	59
07/04/2017	2,740		2,080		2,430		7.80		2,332,800		19,138						55		8,230	7,690	6,120	5,800	13,080	10,310	1.90	4.20	2,865,600	2,304,000	84,940	79,367	6,648	60,070	582	5,401	61	64
07/05/2017	8,810		6,400		12,460		4.29		2,404,800		61,536		156	6,060			45		12,260	8,630	10,040	5,770	13,900	12,260	4.45	0.14	2,880,000	1,915,200	126,532	89,068	918	7,923	5,833	57,047	41	58
07/06/2017	8,750		6,380		12,750		3.11		2,476,800		61,117		6,159	60,060			51		8,830	8,630	6,590	6,520	13,610	12,610	4.30	2.64	2,894,400	2,448,000	91,132	89,068	2,641	23,208	485	4,613	68	64
07/07/2017	8,940		6,500		12,330		4.69		2,404,800		62,444		450	4,376			41		8,710	8,320	6,390	6,120	14,250	11,860	2.86	4.47	2,520,000	2,088,000	89,894	85,869	7,014	60,026	481	4,858	56	54
07/08/2017	8,880		6,380		10,540		6.02		2,491,200		62,025						57		7,820	7,970	5,850	5,940	14,650	13,240	3.31	4.23	2,793,600	2,145,600	80,708	82,256	6,134	48,105			73	75
07/09/2017	8,700		6,350		17,860		6.18		2,476,800		60,767						58		8,030	8,010	5,890	5,860	14,230	13,060	3.58	3.55	2,764,800	2,318,400	82,876	82,669	5,393	45,446			72	72
07/10/2017	9,080		6,260		8,610		6.42		2,433,600		63,422		6,659	60,331			53		8,170	8,070	6,020	6,090	13,880	13,160	3.82	3.99	2,692,800	2,044,800	84,321	83,288	4,038	35,777	1,451	12,130	69	69
07/11/2017	9,160		5,240		9,360		6.90		2,160,000		63,980		372	4,767			47		7,660	7,740	5,790	5,820	12,780	12,280	3.47	3.96	2,534,400	2,174,400	79,057	79,883	698	5,990	7,674	59,285	71	72
07/12/2017	8,360		5,870		8,140		7.05		2,030,400		58,393		510	5,452			56		7,980	8,960	5,980	6,800	14,250	14,210	4.05	4.02	2,880,000	2,260,800	82,360	92,474	7,115	60,059	571	4,821	65	64
07/13/2017	8,750		6,170		7,910		6.99		2,030,400		61,117		389	5,460			55		8,130	8,820	6,090	6,660	14,110	13,620	4.38	4.10	2,606,400	2,304,000	83,908	91,029	5,501	48,674	545	4,796	76	69
07/14/2017	6,720		5,470		7,330		7.87		1,180,800		46,938		3,965	47,979			60		8,060	8,030	5,250	5,310	12,790	12,470	4.83	4.22	2,736,000	2,289,600	83,185	82,876	2,111	18,582	331	3,187	55	62
07/15/2017	7,830		5,340		9,820		8.03		1,267,200		54,691						55		8,030	8,640	5,940	6,460	13,480	14,830	4.14	3.89	2,851,200	2,116,800	82,876	89,171	5,305	48,100			69	69
07/16/2017	6,790		4,730		8,420		8.04		1,584,000		47,426						63		7,500	7,950	5,750	6,000	12,300	13,780	3.11	3.74	3,096,000	2,030,400	77,406	82,050			5,444	47,368	68	74
07/17/2017	7,880		5,580		6,240		7.73		1,598,400		55,040		306	5,877			57		8,160	8,340	6,230	6,390	13,930	13,710	4.01	3.58	3,225,600	2,116,800	84,217	86,075	647	5,915	6,882	60,036	67	65
07/18/2017	8,200		5,640		8,040		7.80		1,497,600		57,275						51		8,210	8,220	6,130	6,190	14,100	13,370	3.90	3.99	2,851,200	2,304,000	84,733	84,837	4,813	42,000	5,205	42,000	57	62
07/19/2017	8,040		5,490		12,720		7.53		1,612,800		56,157		3,523	39,000			59		7,920	8,440	5,710	6,330	15,270	14,330	2.64	2.86	3,009,600	2,116,800	81,740	87,107	7,256	60,455	1,853	14,954	68	66
07/20/2017	8,050		5,670		13,980		7.62		1,569,600		56,227		1,724	19,086			50		8,720	8,500	6,640	6,430	15,130	15,130	2.84	2.29	2,707,200	2,044,800	89,997	87,726	6,645	55,208	4,283	36,600	48	53
07/21/2017	7,950		5,630		9,590		7.69		1,555,200		55,529		3,667	48,000			60		8,210	8,080	5,950	6,030	13,950	13,060	3.65	2.94	2,880,000	2,059,200	84,733	83,392	8,178	68,867	2,650	21,334	73	68
07/22/2017	7,850		5,320		7,890		7.86		1,497,600		54,830		1,930	25,260			59		7,980	7,900	6,070	5,930	13,800	12,770	4.01	3.24	2,664,000	2,275,200	82,360	81,534	8,702	71,730			65	70
07/23/2017	7,410		5,000		16,130		8.05		1,584,000		51,757						62		7,140	7,790	5,180	5,790	14,730	10,110	3.96	3.80	2,592,000	2,404,800	73,690	80,399			1,897	22,495	63	63
07/24/2017	6,270		4,280		10,780		7.08		1,872,000		43,794						59		8,850	8,300	6,520	6,010	13,930	11,670	4.30	5.53	2,498,400	2,498,400	91,339	85,662	7,372	60,010	3,464	40,676	53	65
07/25/2017	6,530		4,630		13,200		6.55		1,872,000		45,610		7,157	68,380			63		7,490	7,650	5,570	5,630	11,560	11,180	5.43	3.42	2,952,000	2,145,600	77,302	78,954	6,599	55,676			59	61
07/26/2017	7,160		5,100		11,660		6.03		1,929,600		50,011		3,166	31,899			62		7,640	8,030	5,660	5,980	10,500	12,210	5.64	2.91	2,937,600	2,016,000	78,851	82,876	1,560	18,318	6,837	66,330	56	60
07/27/2017	7,150		5,110		12,900		5.02		1,872,000		49,941						62		6,860	7,100	4,980	5,290	10,570	11,710	5.63	2.46	2,592,000	2,116,800	70,800	73,277	6,855	71,470	7,572	68,564	61	66
07/28/2017	7,310		5,250		12,890		5.13		1,944,000		51,059		7,769	72,270			68		6,860	7,670	4,910	5,570	10,780	11,810	5.60	2.01	2,548,800	2,160,000	70,800	79,160	4,194	46,021			61	63
07/29/2017	7,620		5,500		12,090		5.64		1,972,800		53,224		3,028	28,165			53		7,010	7,780	5,300	5,860	11,630	12,900	5.43	5.62	1,944,000	1,900,800	72,348	80,295	4,651	47,955			50	51
07/30/2017	7,720		5,580		13,060		5.76		1,929,600		53,922						58		6,940	8,950	5,170	6,630	12,760	9,400	5.51	5.86	1,872,000	1,857,600	71,626	92,371			3,958	50,490	49	56
07/31/2017	8,110		6,030		12,170		5.33		1,872,000		56,646						59		7,440	7,890	5,590	5,840	12,730	9,390	5.02	3.08	2,232,000	1,908,000	76,786	81,431	10,228	100,920	304	3,875	51	60
MMAVG																																				
Min.	2,740		2,080		2,430		3		1,180,800		19,138		156	4,376			41		6,860	7,100	4,910	5,290	10,500	9,390	2	0	1,872,000	1,857,600	70,800	73,277	647	5,915	304	3,187	41	51
Max.	9,160		6,500		17,860		8		2,491,200		63,980		7,769	72,270			68		12,260	8,960	10,040	6,800	15,270	15,130	6	6	3,225,600	2,498,400	126,532	92,474	10,228	100,920	7,674	68,564	76	79
Total									60,249,600		1,695,829		58,523	608,509													83,988,000	66,787,200	2,581,426	2,614,453	131,216	1,166,505	73,033	674,355		
Average	7,832		5,544		10,879		6		1,943,535		54,704		2,926	30,425			56		8,068	8,172	6,002	6,075	13,359	12,473	4	4	2,709,290	2,154,426	83,272	84,337	5,249	46,660	3,175	29,320	62	65

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Merchant Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
08/01/2017	5.47	9.17	2.47	0.00	0.264	0.000	53,791		68.0	19.7	7.49	408	456	18,613	20,803		7.46	10.0	387	325	410	17,655	18,704		
08/02/2017	7.78	31.88	2.97	1.00	0.240	1.132	38,061		67.0	20.1	7.32	387	672	25,111	43,603		7.42	4.5	154	112	227	9,992	14,729		
08/03/2017	5.87	8.74	2.31	0.00	0.252	0.000	25,061		71.0	20.8	7.63	342	834	16,743	40,829		7.40	11.0	296	232	276	14,491	13,512		
08/04/2017	7.00	26.06	2.31	0.08	0.291	0.458	36,598		71.0	20.4	7.29	122	566	7,122	33,043		7.55	12.0	333	250	158	19,441	9,224		
08/05/2017	8.43	27.10	3.49	0.46	0.291	1.416	10,316		71.0	20.4	7.38	90	344	6,328	24,185		7.35	12.0	316	234	204	22,217	14,342		
08/06/2017	6.47	8.99	3.45	0.60	0.293	0.000					7.51	252	340	13,598	18,346		7.54	3.9	159	136	180	8,580	9,713		
08/07/2017	7.33	11.29	4.85	0.00	0.299	0.000	85,732		67.0	21.3	7.53	425	596	25,981	36,435		7.51	52.0	966	714	435	59,054	26,593		
08/08/2017	6.39	10.35	5.23	0.00	0.285	0.000	46,662		58.0	20.0	7.45	341	486	18,173	25,900		7.37	75.0	1506	1122	525	80,259	27,979		
08/09/2017	5.27	8.23	2.94	0.00	0.346	0.000	74,923		61.0	20.9	7.40	339	506	14,900	22,240		7.32	72.0	1324	980	435	58,192	19,119		
08/10/2017	5.38	8.58	2.51	0.00	0.278	0.000	64,247		62.0	20.3	7.31	348	466	15,614	20,909		7.35	29.0	610	454	363	27,370	16,288		
08/11/2017	5.60	9.21	2.34	0.10	0.246	0.000	56,577		63.0	20.3	7.04	311	518	14,525	24,193		7.05	20.0	461		338	21,531	15,786		
08/12/2017	5.64	8.93	2.40	0.04	0.233	0.000	21,415		64.0	20.3	7.21	320	294	15,052	13,829		7.17	18.0	415		431	19,521	20,273		
08/13/2017	5.34	9.90	2.39	0.00	0.219	0.000	13,326		73.0	20.2	7.24	278	372	12,381	16,567		7.37	12.0	348	264	216	15,498	9,620		
08/14/2017	5.61	8.40	3.03	0.01	0.248	0.000	48,826		62.0	20.3	7.17	348	408	16,282	19,089		7.46	5.0	217	158	201	10,153	9,404		
08/15/2017	5.74	10.01	2.19	0.20	0.266	0.000	49,866		58.0	20.8	7.30	326	406	15,606	19,436		7.43	15.0	466	356	335	22,308	16,037		
08/16/2017	5.51	12.05	2.38	0.00	0.312	0.000	53,484		66.0	20.5	7.20	395	368	18,152	16,911		7.26	55.0	1050	810	465	48,251	21,368		
08/17/2017	5.41	9.25	2.21	0.00	0.335	0.000	67,928		60.0	20.5	7.27	270	360	12,182	16,243		7.44	16.0	438	324	327	19,762	14,754		
08/18/2017	6.31	20.46	2.77	0.42	0.305	0.202	28,381		58.0	20.5	7.14	159	418	8,367	21,997		7.20	8.0	251		164	13,209	8,631		
08/19/2017	6.06	10.61	2.33	0.00	0.263	0.000	10,091		68.0	20.8	7.25	141	252	7,126	12,736		7.11	30.0	556		131	28,100	6,621		
08/20/2017	5.14	7.80	2.42	0.00	0.303	0.000			72.0	20.8	7.40	206	240	8,831	10,288		7.31	25.0	490	358	318	21,005	13,632		
08/21/2017	5.80	9.36	2.39	0.00	0.308	0.000	88,968		60.0	20.8	7.40	324	384	15,673	18,575										
08/22/2017	5.80	34.11		0.70	0.449	1.172	64,283		70.0	21.2	7.31	300	350	14,512	16,930		7.40	24.0	614	478	378	29,700	18,285		
08/23/2017	7.71	8.56	3.23	0.00	0.411	0.000	34,476		71.0	21.9	7.40	306	344	19,676	22,120		7.57	10.0	314	216	282	20,191	18,133		
08/24/2017	5.48	9.26	2.97	0.00	0.321	0.000	48,199		59.0	21.3	7.40	264	290	12,066	13,254		7.42	10.0	292	202	276	13,345	12,614		
08/25/2017	5.62	9.25	0.00	0.00	0.222	0.000	41,918		56.0	20.7	7.21	227	180	10,640	8,437		7.11	15.0	352	261	348	16,499	16,311		
08/26/2017	5.01	9.15	4.50	0.00	0.197	0.000			52.0	21.1	7.27	188	188	7,855	7,855		7.10	13.0	333	254	282	13,914	11,783		
08/27/2017	5.04	7.80	0.00	0.00	0.197	0.000			51.0	21.1	7.56	219	232	9,205	9,752		7.39	11.0	322	250	264	13,535	11,097		
08/28/2017	5.23	8.19	2.38	0.00	0.192	0.000	40,294		59.0	21.3	7.29	318	336	13,871	14,656		7.32	7.0	220	172	252	9,596	10,992		
08/29/2017	5.20	8.92	2.35	0.02	0.206	0.000	35,381		55.0	21.1	7.33	377	380	16,350	16,480		7.40	15.0	466	384	408	20,209	17,694		
08/30/2017	5.08	9.03	2.13	0.00	0.178	0.000	43,226		57.0	21.3	7.46	354	324	14,998	13,727		7.47	8.5	274	205	312	11,609	13,219		
08/31/2017	5.38	11.06	2.16	0.00	0.145	0.000	48,314		61.0	21.4	7.32	330	388	14,807	17,409		7.26	5.5	244	174	282	10,948	12,653		
MMAVG	8.10																								
Min.	5.0	7.8	0.0	0.0		0.000	10,091		51.0	19.7	7.04	90	180	6,328	7,855		7.05	3.9	154	112	131	8580	6621		
Max.	8.4	34.1	5.2	1.0		1.416	88,968		73.0	21.9	7.63	425	834	25,981	43,603		7.57	75.0	1506	1122	525	80259	27979		
Total	183.1	381.7	79.1	3.6		4.380	1,230,344																		
Average	5.9	12.3	2.6	0.1		0.141	45,568		63.03	20.74	7.34	291	397	14204	19896		7.35	20.1	472	363	307	23204	14970		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
08/01/2017	6.98	<0.10	6.2	2.2	4.2	283	192	0	21.6	6.1	2.2	5.00	5.00	5.00	5.00	0.58	26	0.29	13		98.971	98.640	7.59	2.5	7.0	5.2	7.13	4.9	21.4	15.4					
08/02/2017	6.90	<0.10	33.8	22.0	41.7	2,193	2,706	9	21.9	6.0	2.7	5.00	5.00	5.00	5.00						89.225	94.970	7.74	2.2	8.2	4.0	7.13	6.0	27.6	19.2					
08/03/2017	6.98	0.10	7.2	5.2	4.3	352	211	36	22.1	6.1	2.7	5.00	5.00	5.00	5.00						98.743	99.137	7.75	2.0	6.4	3.4	7.23	3.9	18.0	17.0					
08/04/2017	6.72	<0.10	26.0	19.0	21.2	1,518	1,238	37	22.3	4.8	2.3	5.00	5.00	5.00	5.00						82.623	95.406	7.55	2.0	107.0	3.8	7.13	5.9	24.2	16.4					
08/05/2017	6.97	<0.10	26.4	18.4	18.9	1,856	1,329	28	22.3	6.6	1.8	5.00	5.00	5.00	5.00						79.000	92.326	7.56	2.5	9.0	4.4	7.21	6.5	21.2	13.4					
08/06/2017	6.96	<0.10	9.2	7.0	3.6	496	194	12	21.7	6.7	2.1	5.00	5.00	5.00	5.00	0.27	15	0.18	10		98.571	97.294	7.67	2.2	10.4	6.6	7.27	4.7	18.0	12.6					
08/07/2017	6.78	<0.10	9.4	4.8	7.7	575	471	35	21.6	6.5	3.2	5.00	5.00	5.00	5.00	0.52	32	1.52	93		98.188	98.423	7.78	6.6	9.2	4.8	7.39	14.4	22.4	15.2					
08/08/2017	7.10	0.20	11.6	6.4	6.5	618	346	23	21.3	6.0	6.0	5.00	5.00	5.00	5.00	0.38	20	1.85	99		98.094	97.613	7.74	3.1	6.4	1.4	7.47	15.8	19.0	12.2					
08/09/2017	7.01	<0.10	10.4	5.0	6.8	457	299	26	21.2	5.8	4.8	5.00	5.00	5.00	5.00						97.994	97.945	7.76	2.9	8.4	3.8	7.41	14.7	21.0	15.4	38.00	<50.00	0.82	19.00	<0.20
08/10/2017	7.03	0.10	9.0	7.0	7.2	404	323	23	21.6	6.0	4.3	5.00	5.00	5.00	5.00						97.931	98.069	7.67	2.2	7.6	4.2	7.29	11.4	20.0	14.8					
08/11/2017	6.88	0.10	10.0		4.6	467	215	9	21.9	5.8	2.6	5.00	5.00	5.00	5.00						98.521	98.069	7.58	2.0	8.2		7.03	5.2	19.6						
08/12/2017	6.88	0.10	10.2		3.2	480	151	11	22.4	6.3	2.6	5.00	5.00	5.00	5.00						99.000	96.531	7.53	2.0	11.6		7.01	5.8	18.6						
08/13/2017	6.84	0.10	7.4	3.8	3.5	330	156	1	22.5	6.4	2.1	5.00	5.00	5.00	5.00	0.24	11	0.26	12		98.741	98.011	7.55	2.0	6.4	3.0	7.08	4.8	15.6	10.2					
08/14/2017	6.75	<0.10	10.4	4.0	4.0	487	187	2	22.2	6.4	2.5	5.00	5.00	5.00	5.00	0.35	16	0.21	10		98.851	97.451	7.55	2.0	8.0	3.6	6.90	5.1	18.6	12.0					
08/15/2017	6.66	0.10	7.4	5.2	5.4	354	259	6	22.1	6.3	2.9	5.00	5.00	5.00	5.00	0.41	20	0.34	16		98.344	98.177	7.68	2.0	6.2	2.4	7.02	5.5	19.8	13.6					
08/16/2017	6.90	0.10	11.4	6.2	6.5	524	299	9	22.1	5.9	3.7	5.00	5.00	5.00	5.00						98.354	96.902	7.61	2.0	8.0	5.2	7.21	8.4	20.2	16.2					
08/17/2017	6.96	0.10	11.8	7.0	6.6	532	298	0	22.0	5.6	3.8	5.00	5.00	5.00	5.00						97.556	96.722	7.53	2.0	10.2	6.0	7.17	7.1	22.0	14.2					
08/18/2017	6.68	0.10	20.2		12.0	1,063	632	26	22.3	6.0	3.4	5.00	5.00	5.00	5.00						92.453	95.167	7.16	2.0	11.0		7.01	5.6	19.4						
08/19/2017	6.60	0.10	11.8		4.4	596	222	3	22.8	6.2	2.5	5.00	5.00	5.00	5.00						96.879	95.317	7.19	7.5	78.8		6.96	7.9	31.0						
08/20/2017	6.53	0.05	6.0	3.4	3.8	257	163	1	22.8	6.2	1.8	5.00	5.00	5.00	5.00	0.28	12	0.17	7		98.155	97.500					7.10	6.4	20.6	13.4					
08/21/2017	6.75	0.10	10.2	6.0	4.8	493	232	27	22.4	5.7	3.5	5.00	5.00	5.00	5.00	0.37	18	0.14	7		98.519	97.344					7.12	7.0	25.2	18.8					
08/22/2017	6.85	0.10	60.8	45.6	36.6	2,941	1,770	18	23.0	5.5	3.6	5.00	5.00	5.00	5.00	1.15	56	0.48	23		87.800	82.629					7.32	9.3	38.6	24.2					
08/23/2017	6.93	0.30	18.0	12.6	4.3	1,157	276	8	23.2	5.5	4.5	5.00	5.00	5.00	5.00						98.595	94.767					7.27	6.5	21.4	14.0					
08/24/2017	6.92	0.50	9.4	4.4	4.4	430	201	75	23.0	5.4	7.9	5.00	5.00	5.00	5.00						98.333	96.759					7.21	6.5	21.4	12.6					
08/25/2017	6.69	0.40	10.8	6.6	4.3	506	202	470	22.4	4.5	4.2	5.00	5.00	5.00	5.00						98.106	94.000					7.75	3.3	18.6	10.8					
08/26/2017	6.70	<0.10	12.0	7.4	6.5	501	272	0	21.8	6.5	2.7	5.00	5.00	5.00	5.00						96.543	93.617					7.65	4.6	18.2	10.8					
08/27/2017	6.58	<0.10	8.8	5.2	4.2	370	177	1	21.5	6.4	2.5	5.00	5.00	5.00	5.00	0.26	11	0.12	5		98.082	96.207					6.90	5.9	18.0	12.4					
08/28/2017	6.71	0.10	12.2	5.2	3.9	532	170	3	21.8	6.1	6.2	5.00	5.00	5.00	5.00	0.27	12	0.13	6		98.774	96.369					7.03	4.2	14.4	8.2					
08/29/2017	6.91	0.10	11.4	6.6	4.8	494	208	3	22.2	5.9	3.9	5.00	5.00	5.00	5.00	0.31	13	0.14	6		98.727	97.000					7.16	6.6	23.2	16.2					
08/30/2017	7.01	<0.10	10.2	5.4	4.8	432	203	25	22.2	5.8	3.1	0.00	5.00	5.00	3.33						98.644	96.852					6.96	4.8	18.0	12.4					
08/31/2017	6.99	0.10	11.2	7.2	6.3	503	283	8	22.2	5.6	3.5	0.00	0.00	0.00	0.00						98.091	97.113					7.13	5.0	15.8	9.2					
MMAVG														MMAVG			0.47																	
Min.	6.5	0.05	6	2	3	257	151	0	21.2	4.5	2			0.00		0.00	0.24	11	0.12	5	79.00	82.63	7.2	2.0	6.2	1.4	6.9	3.3	14.4	8.2	38.0	<50	0.82	19.0	<0.20
Max.	7.1	0.50	61	46	42	2941	2706	470	23.2	6.7	8			5.00		5.00	1.15	56	1.85	99	99.00	99.14	7.8	7.5	107.0	6.6	7.8	15.8	38.6	24.2	38.0	<50	0.82	19.0	<0.20
Total																																			
Average	6.8	<0.13	14	9	8	716	448	9	22.1	6.0	3			4.78		4.78	0.41	20	0.45	24	96.34	96.20	7.6	2.7	17.3	4.1	7.2	6.9	21.0	14.1	38.0	<50	0.82	19.0	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
08/01/2017	8,400		5,890		13,020		4.22		2,016,000		58,672						60		7,070	8,590	5,140	6,390	12,790	10,400	5.49	3.56	2,203,200	1,857,600	72,968	88,655	6,792	71,316	1,567	18,067	69	62
08/02/2017	7,940		5,790		12,650		5.47		1,944,000		55,459		7,803	71,200			61		6,970	8,730	5,170	6,530	11,370	9,350	5.20	5.33	2,332,800	1,902,240	71,936	90,100	2,904	29,456			52	57
08/03/2017	7,760		5,560		15,820		6.14		2,016,000		54,202		3,361	30,146			58		6,910	7,610	5,070	5,360	12,400	10,400	5.52	5.48	2,404,800	2,001,600	86,694	78,541	2,142	21,065	6,955	71,400	58	59
08/04/2017	6,790		5,670		12,870		5.76		1,929,600		47,426						68		6,890	8,000	5,070	5,860	12,440	9,610	5.30	5.46	2,332,800	2,044,800	71,110	82,566	7,375	71,316	10,386	101,239	57	63
08/05/2017	7,720		5,590		12,760		5.61		1,929,600		53,922						62		7,250	6,730	5,270	5,010	11,130	10,340	5.62	5.53	2,361,600	1,958,400	74,825	69,459	4,622	48,000	3,127	30,191	59	54
08/06/2017	7,450		5,320		11,830		6.21		2,174,400		52,036						66		6,940	6,630	4,980	4,830	10,920	12,420	6.09	5.69	2,260,800	1,857,600	71,626	68,427			4,770	46,051	58	56
08/07/2017	7,830		6,300		14,850		4.70		1,886,400		54,691		7,036	71,316			60		7,190	6,720	5,860	1,940	10,340	11,650	3.56	6.05	3,081,600	835,200	74,206	69,355					57	57
08/08/2017	7,400		5,360		12,800		5.29		1,843,200		51,687		2,854	28,929			54		5,630		4,130		10,770		3.50		3,456,000		58,106		3,944	36,748	3,484	35,856	57	
08/09/2017	8,970		6,600		13,770		5.40		1,857,600		62,653		7,359	70,644			39		7,550		5,680		13,140		3.51		2,131,200		77,922						64	
08/10/2017	8,380		6,100		13,490		3.74	0.00	2,188,800		58,532		10,516	96,287			56		6,880	4,780	5,400	3,600	9,130	13,320	3.31		2,880,000	1,814,400	71,007	49,333					57	57
08/11/2017	10,450		7,580		18,520		4.42		2,347,200		72,991		11,692	100,963			46		7,730	7,080	5,700	5,260	7,530	16,060	4.89	5.99	2,448,000	1,526,400	79,779	73,071					45	54
08/12/2017	9,080		6,490		16,840		5.14		2,102,400		63,422		2,998	28,711			67		6,200	7,770	4,500	5,630	11,020	14,360	4.14	5.12	2,505,600	1,483,200	63,989	80,192					53	61
08/13/2017	9,140		6,480		16,920		5.52		2,145,600		63,841						60		6,160	8,380	4,500	6,180	11,010	15,520	4.23	5.30	2,476,800	1,483,200	63,576	86,488					55	56
08/14/2017	9,520		6,980		11,890		5.90		2,203,200		66,495						59		5,930	9,160	4,540	6,870	9,310	14,940	4.17	5.55	2,347,200	1,584,000	61,202	94,538	3,283	36,431	4,620	36,121	52	61
08/15/2017	10,580		7,670		11,980		6.34		1,900,800		73,899		8,441	72,552			62		5,540	8,580	4,250	6,490	9,140	15,050	4.68	4.83	2,217,600	1,483,200	57,177	88,552					51	54
08/16/2017	9,680		6,860		10,580		6.89	4.07	1,900,800		67,612		11,318	97,348			61		5,380	8,660	4,160	6,500	11,510	15,520	4.20		2,217,600	1,483,200	55,526	89,378					52	67
08/17/2017	9,100		6,460		9,960		7.34		1,771,200		63,561		3,495	30,066			60		6,230	7,240	4,870	5,600	11,060	15,220	4.24	3.63	2,174,400	1,483,200	64,298	74,722	3,296	30,020	3,862	29,706	58	55
08/18/2017	9,700		7,020		9,600		7.29		1,454,400		67,752						62		7,030	8,170	4,680	5,170	10,500	16,460	3.66	3.49	2,361,600	1,454,400	72,555	84,321	3,620	35,374	5,014	34,997	51	51
08/19/2017	9,430		6,570		8,980		7.23		1,483,200		65,866						52		7,060	7,030	5,380	5,270	9,460	16,560	4.44	3.92	2,520,000	1,440,000	72,864	72,555	4,640	47,354			50	53
08/20/2017							7.46												6,960	7,460	5,290	5,610	9,540	15,700	4.05	3.25	2,232,000	1,440,000	71,832	76,993			6,305	48,153	50	52
08/21/2017																			6,420	7,990	4,770	7,320	11,140	17,190	4.03	2.88	2,304,000	1,382,400	66,259	82,463	4,992	49,300	4,581	34,757	62	43
08/22/2017																			8,440	9,320	6,450	6,800	14,780	17,200	5.16	4.05	2,145,600	1,468,800	87,107	96,189	5,438	50,308	5,115	35,669	44	45
08/23/2017																			7,250	4,930	5,340	3,650	14,970	16,620	4.49	5.76	2,116,800	1,497,600	74,825	50,881	5,074	42,368	6,222	41,817	46	65
08/24/2017																			7,710	7,140	5,760	5,450	13,540	13,400	4.07	5.01	2,246,400	1,468,800	79,573	73,690	6,781	56,278	8,219	55,243	48	52
08/25/2017																			6,560	9,630	4,440	7,400	16,320	16,900	6.33	4.73	1,800,000	1,612,800	67,704	99,389	5,684	45,018	6,460	44,689	46	47
08/26/2017																			7,710	8,150	2,910	3,390	16,020	16,970	5.30	6.50	0	116,640	79,573	84,114					43	45
08/27/2017																			7,060	8,580	5,260	6,350	16,150	16,040	5.80	6.90	0	118,080	72,864	88,552					48	50
08/28/2017																			7,170	8,250	5,650	5,560	17,640	18,230	6.97	6.14	1,728,000	1,742,400	74,000	85,146	5,596	41,550	5,616	41,680	46	49
08/29/2017																			8,000	7,960	5,890	6,430	14,970	13,150	6.48	5.69	1,728,000	1,972,800	82,566	82,153	8,461	67,035	8,204	66,459	49	50
08/30/2017																			8,870	8,440	6,590	6,150	15,610	14,180	5.97	5.08	1,728,000	1,900,800	91,545	87,107	6,530	50,483	6,534	49,933	46	47
08/31/2017																			8,670	8,020	6,420	5,790	15,520	13,640	4.05	2.84	1,728,000	1,843,200	89,481	82,772					51	60
MMAVG																																				
Min.	6,790		5,320		8,980		4	0	1,454,400		47,426		2,854	28,711			39		5,380	4,780	2,910	1,940	7,530	9,350	3	3	0	116,640	55,526	49,333	2,142	21,065	1,567	18,067	43	43
Max.	10,580		7,670		18,520		7	4	2,347,200		73,899		11,692	100,963			68		8,870	9,630	6,590	7,400	17,640	18,230	7	7	3,456,000	2,044,800	91,545	99,389	8,461	71,316	10,386	101,239	69	67
Total									37,094,400		1,154,719		76,873	698,162													66,470,400	44,256,960	2,243,317	2,329,702	91,174	829,420	101,041	822,028		
Average	8,701		6,331		13,112		6	2	1,952,337		60,775		6,988	63,469			59		7,012	7,784	5,133	5,600	12,296	14,359	5	5	2,144,206	1,526,102	72,365	80,335	5,065	46,079	5,613	45,668	53	54

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
09/01/2017	4.96	10.64	2.06	0.00	0.153	0.000	48,230		57.0	21.8	0.00						7.42	13.0	247	185	230	10,218	9,514		
09/02/2017	4.72	8.06	2.15	0.00	0.168	0.000	14,250		65.0	20.9	6.41	209	284	8,227	11,180		7.40	18.0	415	409	312	16,336	12,282		
09/03/2017	7.69	25.90	2.14	0.90	0.151	0.866			66.0	20.9	7.13						7.44	4.0	175	134	135	11,224	8,658		
09/04/2017	5.20	7.87	2.50	0.00	0.154	0.000	4,017		71.0	20.5	7.08	270	206	11,709	8,934		7.47	2.0	137	110	183	5,941	7,936		
09/05/2017	5.26	8.46	2.50	0.00	0.155	0.000	30,111		66.0	21.4	7.01	356	362	15,617	15,880		7.51	3.5	184	134	239	8,072	10,485		
09/06/2017	5.51	34.58	4.76	2.80	0.193	6.092			62.0	20.7	7.22	306	438	14,062	20,128		7.54	3.5	122	95	141	5,606	6,479		
09/07/2017	5.30	15.00	4.51	0.20	0.196	0.155	40,896		57.0	19.4	7.35	215	232	9,503	10,255		7.49	3.0	124	99	183	5,481	8,089		
09/08/2017	7.80	10.70	5.13	0.00	0.163	0.000	49,943		55.0	19.5	6.97	134	444	8,717	28,883		7.17	17.0	278	217	177	18,084	11,514		
09/09/2017	6.94	10.35	4.04	0.00	0.175	0.000	18,068		65.0	20.2	6.96		308		17,827		6.93	40.0	935	708	0	54,117	0		
09/10/2017	6.48	9.55	4.12	0.00	0.173	0.000	476		45.0	19.7	7.47	206	218	11,133	11,781		7.33	9.0	329	247	228	17,780	12,322		
09/11/2017	6.42	9.23	3.86	0.00	0.171	0.000	59,570		55.0	20.3	7.32	273	282	14,617	15,099		7.54	4.2	215	172	218	11,512	11,672		
09/12/2017	6.26	10.15	3.36	0.00	0.165	0.000	84,742		56.0	20.5	7.65	332	298	17,333	15,558		7.56	10.0	376	294	344	19,630	17,960		
09/13/2017	6.08	9.17	3.36	0.00	0.156	0.000	63,075		58.0	20.1	7.44	348	314	17,646	15,922		7.25	10.5	392	306	338	19,877	17,139		
09/14/2017	5.89	8.75	2.99	0.15	0.163	0.000	70,459		62.0	20.3	7.45	306	302	15,032	14,835		7.34	12.0	398	318	338	19,551	16,603		
09/15/2017	6.00	10.62	2.87	0.10	0.170	0.000	51,553		62.0	20.2	7.45	357	458	17,864	22,918		7.07	11.0	368		305	18,415	15,262		
09/16/2017	5.50	10.04	2.62	0.00	0.167	0.000	7,664		70.0	20.1	7.40	270	350	12,385	16,055		7.17	7.0	260		212	11,926	9,724		
09/17/2017	5.73	9.95	2.43	0.00	0.159	0.000	4,870		63.0	20.1	7.57	188	238	8,984	11,374		7.34	9.5	185	151	198	8,841	9,462		
09/18/2017	5.86	10.67	2.35	0.00	0.166	0.000	74,372		58.0	20.3	7.62	298	268	14,564	13,098		7.64	4.5	231	178	240	11,290	11,729		
09/19/2017	5.71	11.08	2.73	0.05	0.174	0.000	69,604		58.0	20.0	7.60	258	340	12,286	16,191		7.31	27.0	786	614	420	37,430	20,001		
09/20/2017	5.86	11.18	2.72	0.02	0.230	0.000	38,414		59.0	19.9	7.58	276	290	13,489	14,173		7.49	8.5	202	158	252	9,872	12,316		
09/21/2017	5.62	10.20	2.56	0.00	0.132	0.000	63,335		62.0	20.3	7.53	360	324	16,873	15,186		7.36	9.5	323	259	354	15,139	16,592		
09/22/2017	5.33	11.12	2.50	0.00	0.164	0.000	38,683		57.0	20.0	7.61	168	348	7,468	15,469		7.00	8.0	300		236	13,336	10,491		
09/23/2017	5.13	9.68	1.97	0.00	0.159	0.000	51,836		58.0	20.0	8.02	156	246	6,674	10,525		7.10	7.0	309		206	13,220	8,814		
09/24/2017	5.12	8.53	2.14	0.00	0.163	0.000	7,018		62.0	20.2	7.67	188	242	8,028	10,334		7.47	3.5	216	178	222	9,223	9,480		
09/25/2017	5.20	8.82	2.13	0.00	0.167	0.000	41,937		73.0	20.3	7.81	305	306	13,227	13,271		7.35	3.2	223	166	261	9,671	11,319		
09/26/2017	5.16	9.62	1.82	0.00	0.161	0.000	64,762		62.0	20.6	8.81	375	290	16,138	12,480		7.51	12.0	456	362	435	19,624	18,720		
09/27/2017	5.12	9.14	1.84	0.00	0.164	0.000	44,244		57.0	20.6	7.84	600	404	25,620	17,251		7.07	9.0	346	293	456	14,774	19,472		
09/28/2017	4.94	10.26	1.44	0.00	0.151	0.000	41,062		75.0	20.8	7.68	410	390	16,892	16,068		7.28	13.0	476	412	405	19,611	16,686		
09/29/2017	5.25	12.08	2.29	0.10	0.166	0.000	67,680		53.0	20.2	7.67	246	254	10,771	11,121		7.17	4.5	189	140	258	8,275	11,297		
09/30/2017	5.10	11.48	1.60	0.20	0.138	0.000	9,163		51.0	20.5	7.16	405	400	17,226	17,014		7.05	5.0	230	182	282	9,783	11,995		
MMAVG	8.18																								
Min.	4.7	7.9	1.4	0.0		0.000	476		45.0	19.4	0.00	134	206	6,674	8,934		6.93	2.0	122	95	0	5481	0		
Max.	7.8	34.6	5.1	2.8		6.092	84,742		75.0	21.8	8.81	600	458	25,620	28,883		7.64	40.0	935	708	456	54117	20001		
Total	171.1	342.9	83.5	4.5		7.113	1,160,034																		
Average	5.7	11.4	2.8	0.2		0.237	41,430		60.67	20.34	7.22	289	316	13411	14957		7.33	9.7	314	251	260	15129	12134		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
09/01/2017	6.84	0.10	10.0	6.4	4.0	414	165	116	22.0	6.2	3.8	0.00	0.00	0.00	0.00												6.94	4.3	13.2	9.2					
09/02/2017	6.70	0.10	10.2	8.6	3.4	402	134	21	21.5	6.4	5.1	0.00	0.00	0.00	0.00						98.373	96.408					6.92	5.3	-3.2	11.8					
09/03/2017	6.68	0.00	41.6	33.4	32.4	2,668	2,078	33	22.3	5.6	5.5	0.00	0.00	0.00	0.00	0.82	53	2.85	183								6.99	6.1	15.6	12.8					
09/04/2017	7.13	0.00	6.8	4.8	4.4	295	191	23	20.8	6.3	3.5	0.00	0.00	0.00	0.00	0.33	14	0.10	4		98.370	96.699					7.02	4.5	13.6	9.6	46.00	50.00	0.50	31.00	0.20
09/05/2017	6.75	0.10	11.4	7.2	4.3	500	189	45	21.5	6.0	3.5	0.00	0.00	0.00	0.00	0.34	15	0.08	4		98.792	96.851					6.96	4.2	15.8	9.4					
09/06/2017	6.95	<0.10	45.0	32.0	52.8	2,068	2,426	29	22.1	5.7	2.9	0.00	0.00	0.00	0.00						82.745	89.726					7.02	5.8	17.4	9.0					
09/07/2017	6.86	0.30	10.0	7.2	8.2	442	362	23	20.3	6.4	4.8	0.00	0.00	0.00	0.00						96.186	95.690					7.02	6.3	13.6	9.2					
09/08/2017	6.76	0.30	12.4	7.4	4.8	807	312	29	20.7	5.6	5.1	0.00	0.00	0.00	0.00						96.418	97.207					6.85	6.3	10.2	4.6					
09/09/2017	6.89	<0.10	6.6	4.6	5.5	382	318	23	21.0	6.5	1.8	0.00	0.00	0.00	0.00							97.857					6.90	6.6	22.8	10.2					
09/10/2017	7.02	<0.10	9.6	5.2	4.7	519	254	9	21.1	6.4	2.9	0.00	0.00	0.00	0.00	0.18	10	0.20	11		97.718	95.596					7.20	6.3	18.2	12.6					
09/11/2017	6.87	0.10	8.6	4.8	4.4	460	236	8	21.4	6.5	4.2	0.00	0.00	0.00	0.00	0.20	11	0.16	9		98.388	96.950					7.35	6.3	21.8	17.0					
09/12/2017	7.08	0.10	16.6	11.8	5.6	867	292	7	21.4	5.8	3.5	0.00	0.00	0.00	0.00	0.25	13	0.14	7		98.313	94.430					7.46	9.9	26.0	19.8					
09/13/2017	7.10	0.10	9.6	7.4	6.0	487	304	9	21.5	5.9	4.9	0.00	0.00	0.00	0.00						98.276	96.943					7.08	7.1	23.8	19.0					
09/14/2017	7.01	<0.10	7.0	4.6	8.0	344	393	3	22.0	5.9	3.5	0.00	0.00	0.00	0.00						97.386	97.682					7.15	13.5	26.2	17.6					
09/15/2017	6.89	0.10	10.2		5.3	510	265	72	22.1	5.4	5.1	0.00	0.00	0.00	0.00						98.515	97.773					6.95	6.6	19.8						
09/16/2017	6.80	0.10	9.4		3.9	431	179	6	22.1	6.3	2.7	0.00	0.00	0.00	0.00						98.556	97.314					6.88	4.5	15.2						
09/17/2017	6.73	0.10	8.2	4.6	3.2	392	153	2	21.8	6.3	2.6	0.00	0.00	0.00	0.00	0.30	14	0.18	9		98.298	96.555					7.04	4.7	15.0	10.6					
09/18/2017	6.74	<0.10	8.6	4.2	4.3	420	210	32	22.0	5.8	5.4	0.00	0.00	0.00	0.00	0.37	18	0.58	28		98.557	96.791					7.04	5.9	16.0	10.2					
09/19/2017	6.92	0.20	14.4	7.8	7.2	686	343	7	22.0	5.8	5.6	0.00	0.00	0.00	0.00	0.40	19	0.29	14		97.209	95.765					7.20	7.3	20.8	14.2					
09/20/2017	6.90	0.10	12.2	6.4	5.7	596	279	1	21.8	5.8	4.0	0.00	0.00	0.00	0.00						97.935	95.793					7.30	6.3	16.6	11.2					
09/21/2017	7.03	0.10	9.0	3.6	8.6	422	403	2	21.9	5.8	4.1	0.00	0.00	0.00	0.00						97.611	97.222					7.30	8.3	20.2	14.6					
09/22/2017	6.84	0.10	14.6		6.1	649	271	3	21.4	5.9	5.0	0.00	0.00	0.00	0.00						96.369	95.805					6.86	6.3	20.2						
09/23/2017	6.64	0.00	13.0		5.3	556	227	0	21.4	6.4	2.9	0.00	0.00	0.00	0.00						96.603	94.715					6.80	4.1	16.4						
09/24/2017	6.63	0.00	12.0	7.4	5.1	512	218	3	21.5	6.3	2.3	0.00	0.00	0.00	0.00	0.40	17	0.24	10		97.287	95.041					6.90	5.3	16.8	11.8					
09/25/2017	6.63	0.20	12.6	6.2	5.4	546	234	5	22.0	6.0	5.0	0.00	0.00	0.00	0.00	0.50	22	0.15	7		98.230	95.882					6.61	5.4	19.4	12.4					
09/26/2017	6.78	0.20	14.2	10.4	6.7	611	288	2	22.0	5.7	4.1	0.00	0.00	0.00	0.00	0.51	22	0.13	6		98.213	95.103					6.76	7.5	22.2	18.4					
09/27/2017	6.99	0.20	13.6	11.4	8.0	581	342	0	22.2	5.5	5.2	0.00	0.00	0.00	0.00						98.667	96.634					6.76	6.9	18.8	15.4				38.00	
09/28/2017	6.62	0.10	11.0	8.0	8.7	453	358	3	22.6	5.4	3.5	0.00	0.00	0.00	0.00						97.878	97.179					7.09	8.1	24.6	16.4					
09/29/2017	6.84	0.40	9.8	8.2	5.9	429	258	60	22.0	6.0	7.9	0.00	0.00	0.00	0.00						97.602	96.142					7.62	6.3	20.4	13.2					
09/30/2017	6.99	0.10	10.6	8.4	9.7	451	413	3	21.3	6.3	3.9	0.00	0.00	0.00	0.00						97.605	97.350					7.42	6.3	21.0	15.0					
MMAVG														MMAVG		0.43																			
Min.	6.6	0.00	7	4	3	295	134	0	20.3	5.4	2			0.00	0.00	0.18	10	0.08	4		82.75	89.73					6.6	4.1	-3.2	4.6	46.0	50	0.50	31.0	0.20
Max.	7.1	0.40	45	33	53	2668	2426	116	22.6	6.5	8			0.00	0.00	0.82	53	2.85	183		98.79	97.86					7.6	13.5	26.2	19.8	46.0	50	0.50	38.0	0.20
Total																																			
Average	6.9	<0.12	13	9	8	630	403	9	21.7	6.0	4			0.00	0.00	0.38	19	0.43	24		97.26	96.18					7.0	6.4	17.9	12.9	46.0	50	0.50	34.5	0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
09/01/2017																			9,480	9,420	6,910	6,760	15,730	14,090	6.40	5.46	1,728,000	1,872,000	97,841	97,221	4,739	36,126	4,222	35,926	49	53
09/02/2017																			9,480	9,450	9,320	6,870	16,600	11,180	6.39	4.22	1,728,000	1,886,400	97,841	97,531	10,954	84,168			42	47
09/03/2017																			10,230	9,380	7,550	6,730	16,470	12,240	5.86	6.18	1,771,200	1,886,400	86,694	96,809	6,593	48,000	7,074	69,293	45	46
09/04/2017																			9,800	8,760	7,030	6,310	16,020	13,300	6.78	6.26	1,728,000	2,016,000	101,143	90,410	2,949	21,375	2,432	21,305	45	49
09/05/2017																			9,350	8,690	6,860	6,410	16,330	12,940	6.44	5.86	1,728,000	2,016,000	96,499	89,687	3,892	28,079	3,459	27,394	52	53
09/06/2017																			9,500	8,160	6,990	5,900	16,110	12,480	5.70	6.20		2,102,400	98,047	84,217	3,813	28,958	3,140	28,325	51	50
09/07/2017																			7,190	6,150	5,340	4,490	16,120	15,990	6.80	6.30		1,746,720	74,206	63,473					52	49
09/08/2017																			8,190	6,720	6,200	4,970	15,670	14,910	5.00	5.00		1,987,200	84,527	69,355	4,597	36,188	4,357	35,889	49	52
09/09/2017																			8,660	7,800	6,360	5,770	13,990	15,980	5.51	5.24	1,958,400	1,872,000	89,378	80,502	5,789	46,805			46	51
09/10/2017																			8,910	8,830	6,610	6,520	15,830	16,500	4.37	3.45	1,742,400	1,756,800	91,958	91,132					51	58
09/11/2017																			8,730	8,270	6,420	6,150	16,280	17,280	3.77	4.77	1,785,600	1,684,800	90,100	85,353					46	54
09/12/2017																			9,700	8,220	7,260	6,080	16,380	18,130	4.19	6.09	1,756,800	1,684,800	100,111	84,837	2,534	18,630	5,368	36,138	45	47
09/13/2017																			8,910	8,330	6,570	6,170	14,510	17,420	5.10	3.20	1,771,200	1,728,000	91,958	85,972	6,362	50,940			46	48
09/14/2017																			9,130	10,030	6,840	7,430	15,070	16,730	4.27	3.10	2,016,000	2,059,200	94,228	103,517	3,128	57,275	2,621	18,782	44	57
09/15/2017																			8,830	9,730	6,690	7,180	15,170	17,790	4.20	3.21	2,016,000	2,059,200	91,132	100,421	4,627	36,000	2,737	18,000	44	50
09/16/2017																			8,870	10,750	6,580	7,940	15,860	20,560	3.42	3.96	1,728,000	2,044,800	91,545	110,948	3,920	28,853	4,701	28,852	45	52
09/17/2017																			9,030	10,770	6,700	7,850	16,610	17,420	4.00	4.31	2,016,000	1,872,000	93,196	111,154	3,906	28,850	4,555	28,761	41	44
09/18/2017																			8,910	11,330	6,610	8,320	15,050	18,580	3.44	4.16	1,742,400	1,742,400	91,958	116,934	2,257	17,979	2,775	17,908	43	47
09/19/2017																			9,100	11,290	6,770	8,290	16,800	17,860	3.47	2.46	1,814,400	1,785,600	93,919	116,521	2,732	17,070	5,594	34,189	39	40
09/20/2017																			9,650	11,180	7,100	8,170	17,870	19,220	1.92	2.73	1,771,200	1,843,200	99,595	115,386	2,672	18,058	5,718	36,705	38	45
09/21/2017																			9,790	10,970	7,290	8,050	15,690	17,990	2.22	2.79	1,584,000	1,814,400	101,040	113,219			5,885	38,380	38	37
09/22/2017																			9,480	10,350	7,170	7,680	19,230	15,500	1.80	3.28	1,800,000	1,800,000	97,841	106,820	7,857	48,064	2,745	19,090	42	44
09/23/2017																			10,210	9,860	7,620	7,210	19,150	14,590	3.02	4.42	1,627,200	1,728,000	105,375	101,763			6,702	48,291	39	43
09/24/2017																			9,830	10,020	7,130	7,180	19,440	13,740	2.88	4.94	1,540,800	1,728,000	101,453	103,414	7,813	48,188			41	39
09/25/2017																			9,910	9,800	7,550	7,310	20,790	13,450	2.88	5.13	1,670,400	1,728,000	102,279	101,143	3,002	17,892	4,089	36,066	40	41
09/26/2017																			9,390	8,460	6,800	6,030	20,040	9,690	5.90	5.67	1,584,000	1,526,400	96,912	87,314					37	38
09/27/2017																			9,860	7,580	7,390	5,580	22,260	10,800	5.71	6.08	1,641,600	1,814,400	101,763	78,231	6,388	36,217	1,519	17,780	36	40
09/28/2017																			10,110	7,820	7,570	5,800	21,970	11,340	4.86	5.52	1,728,000	1,944,000	104,343	80,708	5,814	31,500	572	5,147	39	27
09/29/2017																			10,680	6,560	8,930	3,720	24,870	8,820	5.49	6.67	2,167,200	2,181,600	110,226	67,704	7,478	40,517	2,684	28,994	38	37
09/30/2017																			11,340	6,320	8,540	4,690	20,100	8,860	7.00	6.00	1,382,400	1,425,600	117,037	65,227	7,393	43,328			37	32
MMAVG																																				
Min.																			7,190	6,150	5,340	3,720	13,990	8,820	2	2	1,382,400	1,425,600	74,206	63,473	2,257	17,070	572	5,147	36	27
Max.																			11,340	11,330	9,320	8,320	24,870	20,560	7	7	2,167,200	2,181,600	117,037	116,934	10,954	84,168	7,074	69,293	52	58
Total																											47,527,200	55,336,320	2,913,032	2,796,923	121,209	869,060	82,949	631,215		
Average																			9,408	9,033	7,090	6,585	17,400	14,846	5	5	1,760,267	1,844,544	97,101	93,231	5,050	36,211	3,950	30,058	43	46

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Merchant Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
10/01/2017	4.77	9.52	1.50	0.00	0.151	0.000	441		43.0	19.8	7.64	333	238	13,247	9,468		7.12	8.5	349	275	377	13,884	14,998		
10/02/2017	4.99	9.68	1.61	0.00	0.145	0.000	56,824		46.0	19.9	7.82	350	322	14,566	13,401		7.31	9.0	394	302	396	16,397	16,480		
10/03/2017	4.71	10.58	1.98	0.00	0.552	0.000	64,780		44.0	19.9	7.73	344	340	13,513	13,356		7.34	3.5	223	172	362	8,760	14,220		
10/04/2017	4.96	9.98	2.14	0.00	0.263	0.000	46,286		43.0	20.0	8.63	342	332	14,147	13,734		7.41	4.0	216	174	276	8,935	11,417		
10/05/2017	5.24	8.51	1.81	0.00	0.207	0.000	37,223		58.0	20.0	7.66	353	408	15,427	17,830		7.40	4.5	255	200	306	11,144	13,373		
10/06/2017	5.45	10.70	2.03	0.00	0.161	0.000	80,739		52.0	20.1	6.70	197	268	8,954	12,181		7.25	10.0	287	216	216	13,045	9,818		
10/07/2017	4.71	10.09	2.03	0.00	0.158	0.000	29,556		60.0	19.8	7.23	162	224	6,364	8,799		7.39	3.0	200	161	179	7,856	7,031		
10/08/2017	5.79	22.36	2.19	0.20	0.157	0.219	6,092		63.0	19.9	6.70	264	230	12,748	11,106		7.20	6.0	250	202	204	12,072	9,851		
10/09/2017	7.11	26.01	2.14	1.20	0.722	0.123	7,658		65.0	20.0	7.35	249	380	14,765	22,533		7.37	2.2	198	164	212	11,741	12,571		
10/10/2017	4.98	10.65	2.59	0.00	0.774	0.000	74,148		60.0	20.1	7.54	381	480	15,824	19,936		7.44	3.4	224	179	306	9,303	12,709		
10/11/2017	4.32	12.29	2.28	0.00	0.196	0.000	58,021		55.0	20.1	7.51	390	508	14,051	18,303		6.92	120.0	2320	1760	795	83,587	28,643		
10/12/2017	5.18	9.55	1.82	0.00	0.204	0.000	94,596		46.0	19.9	7.56	417	558	18,015	24,106		7.44	23.0	812	612	510	35,079	22,033		
10/13/2017	5.41	11.16	2.30	0.00	0.205	0.000	74,076		38.0	19.7	7.27	398	524	17,958	23,643		7.09	40.0	1424	1105	930	64,250	41,961		
10/14/2017	4.95	9.38	1.61	0.00	0.610	0.000	14,455		54.0	19.5	7.28	128	404	5,284	16,678		7.29		451	349	117	18,619	4,830		
10/15/2017	5.20	9.56	1.83	0.00	0.306	0.000			58.0	19.8	7.57	240	350	10,408	15,179		7.55	16.0	420	320	288	18,215	12,490		
10/16/2017	5.12	9.58	2.18	0.00	0.215	0.000	71,041		55.0	20.4	7.63	374	544	15,970	23,229		7.61	11.0	404	334	333	17,251	14,219		
10/17/2017	4.98	8.99	2.55	0.00	0.229	0.000	78,950		37.0	19.5	7.58	354	556	14,703	23,092		7.34	12.0	448	372	330	18,607	13,706		
10/18/2017	5.00	9.77	1.92	0.00	0.278	0.000	65,529		39.0	19.4	7.50	396	556	16,513	23,185		7.52	20.0	652	528	392	27,188	16,346		
10/19/2017	5.04	10.01	1.55	0.00	0.269	0.000	65,138		40.0	19.5	7.53	399	690	16,771	29,003		7.44	23.0	636	514	420	26,733	17,654		
10/20/2017	5.40	9.22	1.44	0.00	0.232	0.000	85,264		48.0	19.6	7.31	116	620	5,224	27,922		7.24	22.0	544	443	135	24,500	6,080		
10/21/2017	4.80	9.26	1.72	0.00	0.227	0.000	40,537		54.0	19.4	7.40	275	406	11,009	16,253		7.35	20.0	470	380	342	18,815	13,691		
10/22/2017	4.98	8.94	1.76	0.00	0.202	0.000	5,813		48.0	12.4	7.54	288	384	11,962	15,949		7.52	16.0	408	322	294	16,946	12,211		
10/23/2017	4.94	12.52	0.00	0.40	0.399	0.000	57,946		53.0	19.9	7.56	435	720	17,922	29,664		7.55	2.5	177	136	312	7,292	12,854		
10/24/2017	7.55	26.34	2.99	2.30	0.406	1.984	18,140		59.0	19.8	7.54	323	404	20,338	25,439		7.53	1.0	116	96	200	7,304	12,593		
10/25/2017	9.54	19.58	4.27	0.80	0.428	0.101	22,629		60.0	18.6	7.54	336	272	26,733	21,641		7.63	1.0	94	67	225	7,479	17,902		
10/26/2017	18.11	37.21	7.27	1.30	0.713	6.038			55.0	17.6	7.63	147	240	22,202	36,249		7.60	1.8	106	80	90	16,010	13,593		
10/27/2017	9.46	13.22	5.49	0.00	0.788	0.000	48,613		41.0	18.3	7.39	105	346	8,284	27,298		7.40	1.5	89		87	7,022	6,864		
10/28/2017	8.28	12.18	4.97	0.00	0.781	0.000	52,275		38.0	18.1	7.43	87	386	6,008	26,655		7.38	2.5	179		72	12,361	4,972		
10/29/2017	11.49	38.45	5.07	3.00	0.781	9.600			57.0	18.3	7.60	177	372	16,961	35,647		7.58	5.5	185	136	122	17,728	11,691		
10/30/2017	29.24	38.62	16.02	0.00	0.564	12.160			60.0	16.6	7.59	72	118	17,558	28,776		7.60	1.0	83	55	54	20,241	13,169		
10/31/2017	17.50	19.95	11.16	0.00	0.578	3.714			40.0	17.3	7.64	99	144	14,449	21,017		7.75	0.5	51	42	57	7,443	8,319		
MMAVG	8.33																								
Min.	4.3	8.5	0.0	0.0		0.000	441		37.0	12.4	6.70	72	118	5,224	8,799		6.92	0.5	51	42	54	7022	4830		
Max.	29.2	38.6	16.0	3.0		12.160	94,596		65.0	20.4	8.63	435	720	26,733	36,249		7.75	120.0	2320	1760	930	83587	41961		
Total	229.2	463.9	100.2	9.2		33.939	1,256,770																		
Average	7.4	15.0	3.2	0.3		1.095	48,337		50.61	19.14	7.50	275	398	14125	21009		7.41	13.1	409	334	288	18897	13816		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
10/01/2017	6.60	0.10	11.2	6.6	8.9	446	354	4	20.4	6.2	3.7	0.00	0.00	0.00	0.00	0.44	18	0.24	10		97.327	95.294					6.45	7.1	23.6	16.8		<50.00			
10/02/2017	6.53	0.30	13.4	7.4	6.3	558	262	0	20.6	6.3	17.4	0.00	0.00	0.00	0.00	0.56	23	0.17	7		98.200	95.839					6.60	8.7	24.8	17.4					
10/03/2017	6.71	0.20	11.8	6.0	6.4	464	251	13	20.8	5.8	5.5	0.00	0.00	0.00	0.00	0.58	23	0.18	7		98.140	96.529					6.73	8.3	23.8	17.0	55.00	68.00	0.55	33.00	<0.20
10/04/2017	6.71	0.10	12.6	8.0	5.9	521	244	890	20.8	5.7	5.5	0.00	0.00	0.00	0.00						98.275	96.205					6.87	9.9	29.4	19.6		51.00			
10/05/2017	6.78	0.10	11.8	9.2	5.9	516	258	6	21.6	5.6	5.2	0.00	0.00	0.00	0.00						98.329	97.108					7.01	12.8	34.4	25.0		68.00			
10/06/2017	6.64	0.20	15.8	11.2	6.8	718	309	30	21.5	5.9	5.9	0.00	0.00	0.00	0.00						96.548	94.104					7.00	11.3	32.4	23.2		55.00			
10/07/2017	6.85	0.00	12.0	8.6	4.2	471	165	24	21.9	6.4	5.5	0.00	0.00	0.00	0.00						97.407	94.643					6.59	5.7	23.8	17.4					
10/08/2017	6.73	0.00	33.0	25.2	23.4	1,594	1,130	22	21.4	6.1	6.0	0.00	0.00	0.00	0.00	1.34	65	1.53	74		91.136	85.652					6.90	11.3	28.8	23.8					
10/09/2017	6.77	0.01	31.2	20.6	22.8	1,850	1,352	19	21.0	6.0	11.0	0.00	0.00	0.00	0.00	1.04	62	2.13	126		90.843	91.789					7.01	9.6	22.4	16.8					
10/10/2017	6.85	0.10	12.2	6.2	6.4	507	266	7	21.8	5.4	4.4	0.00	0.00	0.00	0.00	0.66	27	0.16	7		98.320	97.458					7.17	7.8	23.0	17.8					
10/11/2017	6.95	<0.10	11.2	7.0	14.4	404	519	1	21.5	5.8	3.4	0.00	0.00	0.00	0.00						96.308	97.795	7.57	46.2	26.0	20.8	7.11	7.5	19.0	14.6		50.00			
10/12/2017	7.07	0.10	12.0	8.8	12.9	518	557	9400	20.9	6.0	8.4	0.00	0.00	0.00	0.00						96.906	97.849	7.57	26.4	25.4	20.0	7.06	10.2	25.2	19.4		50.00			
10/13/2017	7.04	0.10	19.6	14.2	10.1	884	456	660	20.4	5.9	8.6	0.00	0.00	0.00	0.00						97.462	96.260	7.38	15.2	13.2	10.0	6.83	8.4	10.4	3.0					
10/14/2017	7.01	2.66	5.6	8.6	8.1	231	334	44	19.7	9.0	2.7	0.00	0.00	0.00	0.00						93.672	98.614	7.38	9.9	14.2	11.6	6.87	6.4	24.8	11.6					
10/15/2017	6.88	0.01	10.6	6.0	7.2	460	312	11	17.2	9.0	2.1	0.00	0.00	0.00	0.00	0.47	20	1.18	51		97.000	96.971	7.67	153.0	11.0	8.0									
10/16/2017	6.95	0.10	12.6	7.6	10.8	538	461	80	17.6	8.9	7.8	0.00	0.00	0.00	0.00	0.59	25	3.24	138		97.112	97.684	7.74	25.5	23.6	19.2	6.91	6.3	18.2	12.2		50.00		27.00	
10/17/2017	7.28	0.20	11.4	6.6	6.8	473	282	43	10.4	10.7	10.0	0.00	0.00	0.00	0.00	0.53	22	0.35	15		98.079	97.950	7.59	10.8	19.0	13.2	6.77	5.1	13.2	9.4		60.00			
10/18/2017	7.06	<0.10	11.0	6.2	7.3	459	304	28	20.1	6.8	8.5	0.00	0.00	0.00	0.00						98.157	98.022	7.65	10.5	17.2	12.8	6.94	5.3	14.0	9.2		50.00			
10/19/2017	6.96	<0.10	9.4	7.0	7.5	395	315	25	20.2	6.7	6.0	0.00	0.00	0.00	0.00						98.120	98.638	7.64	11.7	16.0	11.8	7.30	4.4	17.4	9.8		50.00			
10/20/2017	6.78	<0.10	16.4	10.4	7.8	739	351	10	20.5	5.3	5.6	0.00	0.00	0.00	0.00						93.276	97.355	7.34	10.2	14.6	12.8	6.78	4.5	18.4	10.8		50.00			
10/21/2017	6.83	0.01	9.8	6.0	5.1	392	204	3	19.9	6.8	3.4	0.00	0.00	0.00	0.00						98.145	97.586	7.88	6.6	10.4	8.8	7.45	4.8	13.8	7.2					
10/22/2017	6.97	<0.10	9.4	5.4	6.5	390	270	14	19.8	6.6	3.7	0.00	0.00	0.00	0.00	0.49	20	0.16	7		97.743	97.552	7.60	8.7	14.4	9.4	7.20	4.3	13.8	9.4					
10/23/2017	6.83	<0.10	9.4	5.0	7.0	387	288	13	20.4	6.6	4.7	0.00	0.00	0.00	0.00	0.62	26	0.13	5		98.391	98.694	7.68	8.4	13.8	9.4	7.07	4.1	15.6	9.4		50.00			
10/24/2017	6.77	<0.10	29.0	16.6	30.0	1,826	1,889	9	20.9	6.2	3.9	0.00	0.00	0.00	0.00	0.84	53	2.31	145		90.712	92.822	7.62	5.0	6.4	3.4	6.95	7.0	16.0	11.0		50.00			
10/25/2017	6.73	0.10	8.6	4.4	6.3	684	501	25	20.4	6.5	7.1	0.00	0.00	0.00	0.00						98.125	96.838	7.58	3.3	8.6	5.2	6.94	4.7	13.4	9.2		360.00			
10/26/2017	6.70	0.10	68.0	43.0	43.5	10,271	6,570	67	19.6	48.0	7.8	0.00	0.00	0.00	0.00						70.408	71.667	7.52	2.7	7.0	4.0	7.03	3.8	10.6	7.2		62.00			
10/27/2017	6.90	0.10	9.8		5.0	773	394	32	18.6	6.9	4.9	0.00	0.00	0.00	0.00						95.238	97.168	7.49	3.3	7.4		6.91	4.8	16.2			320.00			
10/28/2017	6.61	0.00	9.8		3.6	677	249	14	18.2	7.5	2.4	0.00	0.00	0.00	0.00						95.862	97.461	7.53	3.0	5.8		6.95	4.1	15.4						
10/29/2017	6.64	0.00	72.0	34.8	27.6	6,900	2,645	8	18.2	7.4	2.7	0.00	0.00	0.00	0.00	0.63	60	2.16	207		84.407	80.645	7.61	2.8	7.0	2.6	7.27	5.3	13.2	9.2					
10/30/2017	6.71	2.10	66.4	40.2	44.0	16,192	10,730	3100	17.0	6.4	55.3	0.00	0.00	0.00	0.00	0.80	195	3.64	888		38.889	43.729	7.72	2.1	9.2	4.0	7.34	12.6	28.6	19.8		300.00			
10/31/2017	7.14	0.10	21.6	14.6	26.4	3,153	3,853	3600	17.1	6.7	20.8	0.00	0.00	0.00	0.00	0.53	77	2.95	431		73.333	85.000	7.68	2.2	8.0	4.2	7.30	3.8	11.6	7.4		490.00			
MMAVG														MMAVG		0.46																			
Min.	6.5	0.00	6	4	4	231	165	0	10.4	5.3	2			0.00	0.00	0.44	18	0.13	5		38.89	43.73	7.3	2.1	5.8	2.6	6.5	3.8	10.4	3.0	55.0	<50	0.55	27.0	<0.20
Max.	7.3	2.66	72	43	44	16192	10730	9400	21.9	48.0	55			0.00	0.00	1.34	195	3.64	888		98.39	98.69	7.9	153.0	26.0	20.8	7.5	12.8	34.4	25.0	55.0	490	0.55	33.0	<0.20
Total																																			
Average	6.8	<0.24	19	12	13	1755	1164	31	19.7	8.0	8			0.00	0.00	0.67	48	1.37	141		92.64	92.93	7.6	17.5	13.2	10.1	7.0	7.0	19.8	13.7	55.0	<120	0.55	30.0	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
10/01/2017																			9,360	6,120	6,520	4,600	19,970	10,520	7.40	6.40	2,160,000	2,304,000	96,602	63,163	7,222	43,363			46	41
10/02/2017																			11,390	7,180	8,340	5,240	20,400	10,300	6.18	6.98	2,124,000	2,256,480	117,553	74,103	4,760	28,926			38	36
10/03/2017																			11,650	7,550	8,520	5,480	20,150	10,370	6.53	7.43	2,136,960	2,149,920	86,694	77,922	2,414	14,850			39	37
10/04/2017																			11,260	7,620	8,240	5,560	19,860	11,210	6.48	7.08	2,168,640	2,219,040	116,212	78,644	10,629	63,509	4,442	35,804	40	39
10/05/2017																			12,230	8,160	8,790	5,970	18,910	11,520	3.89	6.44	2,108,160	2,064,960	126,223	84,217	5,018	29,874			37	37
10/06/2017																			11,140	8,110	8,180	5,950	19,400	11,280	6.54	6.64	2,174,400	2,175,840	114,973	83,701	7,432	44,735			36	37
10/07/2017																			11,770	9,320	8,670	6,870	19,090	11,970	6.57	6.51	1,918,080	2,105,280	121,475	96,189	8,905	55,656			38	37
10/08/2017																			11,220	9,290	8,300	6,820	18,680	12,150	6.41	6.35	2,122,560	2,178,720	115,799	95,880	6,738	43,252	3,635	35,872	33	32
10/09/2017																			10,350	8,950	7,570	6,530	20,010	12,250	6.40	6.40	2,080,800	2,054,880	106,820	92,371	7,237	43,365			36	34
10/10/2017																			10,910	8,280	8,060	6,100	19,770	13,250	6.20	6.60	2,085,120	2,076,480	112,599	85,456	4,701	30,600			32	36
10/11/2017																			9,890	9,070	7,310	6,750	18,260	13,940	6.30	6.90	2,044,800	2,129,760	102,072	93,609	3,410	23,573			35	35
10/12/2017		3,710		2,950		6,010		3.15		1,224,000		25,913						47	7,260	9,480	5,510	7,130	11,790	9,930	5.98	3.68	2,160,000	2,304,000	74,929	97,841			2,429	30,276	41	40
10/13/2017		5,310		4,030		10,930		3.14		3,225,600		37,089						45	9,290	8,110	6,910	5,930	14,050	9,330	5.08	4.78	2,073,600	2,106,720	95,880	83,701	3,135	29,340	1,486	14,087	37	40
10/14/2017		5,370		4,320		11,130		4.04		2,252,160		37,508						47	10,280	8,810	7,630	6,500	16,250	9,930	6.40	6.95	2,046,240	2,036,160	106,097	90,926	6,813	57,941			36	39
10/15/2017		2,530		2,100		1,850		5.60		612,000		17,671						51	9,150	7,740	6,810	5,800	17,490	8,620	7.50	6.60	2,160,000	2,304,000	94,435	79,883			3,099	43,111	46	36
10/16/2017		850		680		600		5.91		1,814,400		5,937						47	10,180	6,080	7,470	4,990	14,770	7,540	6.65	7.93	2,030,400	2,011,680	105,065	62,750	4,533	31,056			39	46
10/17/2017		7,130		5,690		11,830		3.71		1,687,680		49,801						52	10,440	6,430	7,700	2,150	17,550	8,150	7.28	8.95	1,984,320	2,020,320	107,749	66,362	6,962	47,905			41	40
10/18/2017		7,800		6,090		11,900		4.01		2,062,080		54,481			1,069	10,346		47	11,010	6,630	8,160	4,920	18,020	8,080	7.36	8.97	2,018,880	2,018,880	113,631	68,427	7,098	48,987			41	39
10/19/2017		7,640		6,020		9,710		4.05		1,195,200		53,363			3,517	35,238		46	6,050	8,270	3,300	6,620	10,490	17,880	5.66	7.31	1,958,400	1,869,120	62,441	85,353	5,293	36,082			74	30
10/20/2017		7,400		5,710		12,010		4.50		1,369,440		51,687						49	10,570	6,580	8,920	3,580	17,830	8,260	2.60	3.85	1,843,200	1,837,440	109,090	67,911	3,117	26,494	3,399	28,285	42	44
10/21/2017		7,440		5,530		11,000		5.75		1,584,000		51,967			5,741	57,414		57	10,550	6,260	7,530	4,420	16,980	9,580	5.84	6.96	1,872,000	1,742,400	108,884	64,608	4,100	28,200			46	46
10/22/2017		6,820		5,200		11,200		6.32		1,951,200		47,636			5,335	57,117		51	9,820	6,270	7,280	4,810	17,210	8,240	5.77	6.81	1,758,240	1,696,320	101,350	64,711	8,024	56,218			49	48
10/23/2017		6,880		5,400		8,370		6.49		2,102,400		48,055			3,110	36,240		52	10,080	7,030	7,520	5,330	16,950	10,580	5.67	5.76	1,715,040	1,928,160	104,033	72,555	7,162	50,409			40	46
10/24/2017		7,630		5,800		10,000		5.10		2,226,240		53,294						52	10,610	6,570	7,860	4,870	16,880	13,800	1.06	4.86	2,232,000	2,266,560	109,503	67,807	10,886	81,166			44	43
10/25/2017		7,530		5,610		9,270		6.45		1,699,200		52,595			2,053	26,551		49	9,630	6,660	7,040	4,910	16,830	15,350	6.28	7.61	2,030,400	2,131,200	99,389	68,736	3,329	26,138	3,489	36,247	42	45
10/26/2017		7,410		5,610		9,120		6.60		1,008,000		51,757			2,627	35,916		47	8,870	6,040	6,620	4,460	16,750	15,710	8.33	7.07	2,066,400	2,102,400	91,545	62,337	4,890	35,004	3,848	36,413	45	41
10/27/2017		6,360		4,670		9,940		7.49		1,543,680		44,423			2,994	36,116		50	8,930	6,490	6,790	4,930	16,290	15,470	7.39	7.07	2,046,240	2,124,000	92,164	66,982	4,868	35,940	4,622	35,029	46	43
10/28/2017		6,250		4,710		8,100		8.48		1,964,160		43,655			2,453	36,312		51	8,520	5,980	6,230	4,460	15,630	13,740	7.85	8.91	1,892,160	2,118,240	87,933	61,718	4,442	34,075			47	50
10/29/2017		6,110		4,550		8,250		8.97		1,972,800		42,677			2,466	35,835		44	8,840	6,660	6,440	4,900	14,890	12,740	7.56	8.33	1,886,400	2,016,000	91,235	68,736	4,497	36,216			44	48
10/30/2017		5,960		4,410		9,400		9.23		1,081,440		41,629						42	5,420	1,880	4,040	1,450	810	340	8.73	8.74		0	55,938	19,403					46	53
10/31/2017		5,500		4,260		7,560		1.00		694,080		38,416			2,670	36,300		49	5,910	8,690	4,520	6,440	17,050	15,840	6.37	8.36	2,088,000	2,152,800	60,996	89,687					51	46
MMAVG																																				
Min.		850		680		600		1		612,000		5,937			1,069	10,346		42	5,420	1,880	3,300	1,450	810	340	1	4	1,715,040	0	55,938	19,403	2,414	14,850	1,486	14,087	32	30
Max.		7,800		6,090		12,010		9		3,225,600		54,481			5,741	57,414		57	12,230	9,480	8,920	7,130	20,400	17,880	9	9	2,232,000	2,304,000	126,223	97,841	10,886	81,166	4,622	43,111	74	53
Total										33,269,760		849,554			34,035	403,385											60,985,440	62,501,760	3,122,852	2,335,689	157,615	1,082,874	30,449	295,124		
Average		6,082		4,667		8,909		5		1,663,488		42,478			3,094	36,671		49	9,761	7,300	7,186	5,305	16,742	11,222	6	7	2,032,848	2,016,186	100,737	75,345	5,838	40,106	3,383	32,792	42	41

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
11/01/2017	13.58	15.86	9.39	0.00	0.561	0.000	39,612		37.0	17.5	7.47	164	150	18,574	16,989		7.46	0.7	68	54	75	7,701	8,494		
11/02/2017	12.32	14.90	8.02	0.00	0.554	0.000	98,560		63.0	18.1	7.43	200	232	20,550	23,838		7.43	3.0	119	100	137	12,227	14,077		
11/03/2017	11.10	16.53	7.21	0.00	0.612	0.000	38,424		73.0	18.2	7.53	203	242	18,793	22,403		7.44	7.0	193	152	164	17,867	15,182		
11/04/2017	9.99	15.21	6.85		0.753	0.000	35,140		41.0	17.3	7.61	166	208	13,831	17,330		7.56	5.0	173	141	132	14,414	10,998		
11/05/2017	9.86	15.86	6.06	0.00	0.466	0.000	6,307		45.0	17.3	7.59	195	222	16,035	18,256		7.55	4.0	143	131	170	11,759	13,980		
11/06/2017	9.64	14.20	5.55	0.10	0.378	0.000	50,194		59.0	17.6	7.58	246	326	19,778	26,210		7.61	3.5	137	108	183	11,014	14,713		
11/07/2017	8.83	11.99	4.86	0.05	0.119	0.000	80,834		37.0	17.4	7.50	288	326	21,209	24,007		7.60	3.2	154	130	209	11,341	15,391		
11/08/2017	8.15	11.50	5.65	0.00	0.268	0.000	42,932		36.0	17.1	7.43	405	274	27,528	18,624		7.41	4.0	166	129	230	11,283	15,633		
11/09/2017	8.15	12.52	5.27	0.14	0.605	0.000	94,586		47.0	18.1	7.42	323	346	21,955	23,518		7.48	7.0	218	176	204	14,818	13,866		
11/10/2017	8.45	13.10	4.72	0.00	0.317	0.000	51,658		40.0	16.9	7.50	150	318	10,571	22,410		7.48	3.0	135	105	87	9,514	6,131		
11/11/2017	7.04	12.38	4.34	0.00	0.353	0.000	15,499		20.0	16.7	6.60	174	382	10,216	22,429		6.92	3.0	105	78	104	6,165	6,106		
11/12/2017	7.39	11.99	4.50	0.00	0.391	0.000	4,787		35.0	16.6	7.56	252	238	15,531	14,669		7.52	0.9	105	74	180	6,471	11,094		
11/13/2017	7.13	13.43	4.08	0.10	0.197	0.000	55,123		38.0	16.7	7.50	335	312	19,921	18,553		7.60	1.5	112	96	234	6,660	13,915		
11/14/2017	7.30	12.30	4.04	0.00	0.174	0.000	57,822		37.0	16.6	7.62	309	350	18,813	21,309		7.51	7.5	266	224	344	16,195	20,943		
11/15/2017	7.26	11.98	3.94	0.00	0.172	0.000	73,093		37.0	16.5	7.42	360	380	21,797	23,008		7.41	9.0	301	256	345	18,225	20,889		
11/16/2017	8.38	16.69	3.56	0.50	0.171	0.000	33,129		42.0	16.7	7.52	348	330	24,321	23,063		7.46	7.0	239	196	246	16,704	17,193		
11/17/2017	7.22	13.39	3.98		0.091	0.000	72,953		40.0	16.4	7.40	174	552	10,477	33,239		7.37	6.0	231	182	111	13,910	6,684		
11/18/2017	7.04	11.86	4.40	0.17	0.068	0.000	9,406		32.0	15.6	7.27	132	508	7,750	29,827		7.22	8.0	241	186	111	14,150	6,517		
11/19/2017	8.62	14.76	4.05	0.10	0.000	0.000	3,254		42.0	14.4	7.58	240	468	17,254	33,645		7.44	5.0	248	149	189	17,829	13,587		
11/20/2017	7.25	12.95	3.41	0.00	0.153	0.000	54,095		28.0	15.7							7.59	3.2	159	128	234	9,614	14,149		
11/21/2017	7.71	12.18	4.24	0.00	0.080	0.000	117,046		32.0	15.7	7.53	641	394	41,217	25,335		7.60	2.0	134	125	159	8,616	10,224		
11/22/2017	8.01	18.65	4.85	0.00	0.084	0.013	51,057		48.0	13.7	7.18	183	392	12,225	26,187		7.24	3.4	161	117	171	10,755	11,423		
11/23/2017	7.39	13.55	4.81	0.00	0.087	0.000	20,811		26.0	15.2	7.45	216	284	13,313	17,504		7.60	2.5	121	107	159	7,458	9,800		
11/24/2017	7.23	12.35	4.71	0.00	0.090	0.000	40,863		31.0	15.0	7.54	378	560	22,793	33,767		7.44	2.0	270		140	16,281	8,442		
11/25/2017	7.34	11.34	4.24	0.00	0.084	0.000	29,298		40.0	15.0	7.48	216	352	13,223	21,548		7.46	3.0	157		134	9,611	8,203		
11/26/2017	6.79	11.18	4.13	0.00	0.113	0.000			40.0	14.8	7.62	207	274	11,722	15,516		7.60	2.1	116	87	134	6,569	7,588		
11/27/2017	6.78	11.40	4.71	0.00	0.050	0.000	55,454		34.0	14.8	7.55	246	406	13,910	22,957		7.61	1.7	130	107	152	7,351	8,595		
11/28/2017	6.82	12.09	3.94	0.00	0.022	0.000	62,292		21.0	14.4	7.55	318	414	18,087	23,548		7.61	1.8	133	104	182	7,565	10,352		
11/29/2017	7.33	11.92	3.49	0.00	0.123	0.000	73,791		42.0	14.8	7.48	333	308	20,357	18,829		7.50	1.5	128	112	167	7,825	10,209		
11/30/2017	6.94	12.13	4.56	0.10	0.229	0.000	53,035		44.0	15.7	7.56	351	442	20,316	25,583		7.40	20.0	510	438	419	29,519	24,252		
MMAVG	8.51																								
Min.	6.8	11.2	3.4	0.0		0.000	3,254		20.0	13.7	6.60	132	150	7,750	14,669		6.92	0.7	68	54	75	6165	6106		
Max.	13.6	18.7	9.4	0.5		0.013	117,046		73.0	18.2	7.62	641	560	41,217	33,767		7.61	20.0	510	438	419	29519	24252		
Total	247.0	400.2	147.6	1.3		0.013	1,421,055																		
Average	8.2	13.3	4.9	0.0		0.000	49,002		39.57	16.22	7.46	267	344	18002	22900		7.47	4.4	179	143	184	11980	12288		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
11/01/2017	7.01	0.20	10.8	7.2	5.4	1,223	612	20	17.1	6.4	5.8	0.00	0.00	0.00	0.00						96.707	92.800	7.46	2.8	4.4	4.2	6.76	6.7	15.2	11.6		120.00			
11/02/2017	6.60	0.10	7.6	5.6	3.6	781	370	18	17.6	6.1	2.1	0.00	0.00	0.00	0.00						98.200	96.724	7.55	2.0	4.6	4.6	7.05	5.5	17.0	12.8	31.00	50.00	0.51	15.00	<0.20
11/03/2017	6.79	<0.10	5.6	4.4	3.9	518	361	29	17.5	6.2	2.0	0.00	0.00	0.00	0.00						98.079	97.686	8.04	2.1	5.0	4.6	8.09	3.7	15.8	11.8					
11/04/2017	6.92	<0.10	8.4	5.2	4.4	700	367	8	17.9	7.4	1.7	0.00	0.00	0.00	0.00						97.349	95.962	7.66	2.1	8.2	5.4	7.18	6.0	11.4	8.2					
11/05/2017	6.92	<0.10	8.6	5.8	5.2	707	428	6	17.7	7.4	2.0	0.00	0.00	0.00	0.00						97.333	96.126	7.76	2.0	7.2	4.4	7.36	6.5	16.4	11.0		50.00			
11/06/2017	6.92	<0.10	10.4	6.4	5.8	836	466	18	18.3	7.1	3.9	0.00	0.00	0.00	0.00	0.18	14	0.18	14	0.09	97.642	96.810	7.75	2.1	6.2	3.2	7.19	7.3	12.8	9.4		50.00			
11/07/2017	7.02	0.10	14.2	9.2	7.2	1,046	530	4	18.1	7.2	3.5	0.00	0.00	0.00	0.00						97.500	95.644	7.66	2.2	6.0	4.0	7.33	7.8	16.2	12.8		82.00			
11/08/2017	7.02	0.10	12.0	6.8	5.9	816	401	7	17.4	7.0	3.5	0.00	0.00	0.00	0.00						98.543	95.620	7.60	2.7	6.0	4.8	6.92	7.3	14.2	11.8		50.00			
11/09/2017	6.81	0.20	6.0	5.6	5.9	408	401	9	17.1	6.9	2.7	0.00	0.00	0.00	0.00						98.173	98.266	8.21	2.7	7.4	4.8	8.02	7.1	17.2	12.4					
11/10/2017	6.69	<0.10	11.4	8.2	10.4	803	733	21	16.9	6.6	2.7	0.00	0.00	0.00	0.00						93.067	96.415	7.65	2.0	10.2	6.0	7.70	5.4	23.8	17.4					
11/11/2017	6.75	0.00	10.6	6.6	3.0	622	176	25	15.6	7.2	2.7	0.00	0.00	0.00	0.00						98.276	97.225	6.94				7.15	7.3	23.2	16.8					
11/12/2017	6.61	0.00	9.4	6.0	4.8	579	296	11	15.8	7.2	2.1	0.00	0.00	0.00	0.00						98.095	96.050					7.16	8.7	20.6	14.4		50.00			
11/13/2017	6.83	<0.10	17.4	13.2	6.4	1,035	381	8	16.0	7.2	3.5	0.00	0.00	0.00	0.00	0.30	18	0.12	7	0.06	98.090	94.423					7.22	8.1	18.6	13.6		50.00			
11/14/2017	7.04	0.10	11.0	6.4	4.8	670	292	32	16.3	7.6	3.5	0.00	0.00	0.00	0.00						98.447	96.857					7.34	7.4	19.0	12.8		68.00			
11/15/2017	6.91	<0.10	8.0	5.8	6.0	484	363	10	16.0	7.6	3.4	0.00	0.00	0.00	0.00						98.333	97.895	7.68	3.7	14.2	14.0	7.12	7.3	13.4	12.0		50.00			
11/16/2017	6.87	<0.10	5.4	5.4	8.3	377	580	9	16.5	7.3	2.5	0.00	0.00	0.00	0.00						97.615	98.364	7.72	2.7	9.6	9.0	7.08	13.8	17.0	13.2		55.00			
11/17/2017	6.89	<0.10	9.2	5.2	5.5	554	331	11	15.2	7.5	2.5	0.00	0.00	0.00	0.00						96.839	98.333	7.61	2.9	173.0	5.4	7.07	7.1	17.4	12.4					
11/18/2017	7.03	<0.10	12.6	9.0	4.5	740	264	1	15.4	7.5	1.4	0.00	0.00	0.00	0.00						96.591	97.520	7.59	2.6	6.0	1.2	6.98	6.4	15.8	10.4					
11/19/2017	6.78	0.10	20.4	6.0	5.9	1,467	424	6	16.1	7.0		0.00	0.00	0.00	0.00	0.17	12	0.10	7	0.05	97.542	95.641	7.75	2.0	18.8	5.4	7.20	5.6	30.0	13.0		50.00			
11/20/2017	6.78	0.10	8.6	5.8	4.5	520	272	8	15.3	7.5	3.2	0.00	0.00	0.00	0.00								7.84	2.0	6.0	4.2	7.37	6.8	19.0	15.0					
11/21/2017	7.10	<0.10	7.2	4.8	3.9	463	251	3	15.5	7.4	3.1	0.00	0.00	0.00	0.00						99.392	98.173	7.70	2.1	4.6	3.8	7.13	6.0	14.6	11.8		50.00			
11/22/2017	6.83	<0.10	14.8	10.4	5.4	989	361	9	15.7	7.0	2.1	0.00	0.00	0.00	0.00						97.049	96.224	7.63	2.9	3.6	1.6	7.04	7.8	14.0	10.2		50.00			
11/23/2017	6.91	0.01	8.8	5.2	6.2	542	382	2	14.9	7.2	1.4	0.00	0.00	0.00	0.00						97.130	96.901	7.86	2.1	6.8	3.8	7.12	5.8	10.8	6.8					
11/24/2017	6.68	<0.10	13.0		4.0	784	241	3	15.0	7.1	1.9	0.00	0.00	0.00	0.00						98.942	97.679	7.65	2.1	47.0		6.96	6.8	79.0						
11/25/2017	6.74	0.10	9.8		4.5	600	275	0	15.3	7.1	2.0	0.00	0.00	0.00	0.00						97.917	97.216	7.78	2.0	8.8		7.11	6.5	18.2						
11/26/2017	7.11	<0.10	10.8	5.2	6.9	612	391	42	15.0	6.8	2.7	0.00	0.00	0.00	0.00						96.667	96.058	7.78	2.0	4.8	3.0	7.36	12.9	18.8	13.4		75.00			
11/27/2017	6.94	<0.10	8.0	4.8	5.2	452	294	8800	14.8	6.5	3.5	0.00	0.00	0.00	0.00	0.24	14	0.40	23	0.06	97.886	98.030	7.85	2.0	6.0	3.0	7.38	6.0	15.2	10.0		50.00			
11/28/2017	7.06	<0.10	7.6	4.0	5.8	432	330	8400	14.4	7.9	4.1	0.00	0.00	0.00	0.00						98.176	98.164	7.86	2.1	5.8	3.4	7.37	7.0	14.6	10.4					
11/29/2017	6.97	<0.10	8.0	6.2	6.5	489	397	3100	14.7	7.6	3.0	0.00	0.00	0.00	0.00						98.048	97.403	7.51	10.8	10.4	9.4	7.10	7.4	16.6	14.0					
11/30/2017	6.77	<0.10	7.8	6.0	8.3	451	480	1	14.6	7.4	3.1	0.00	0.00	0.00	0.00						97.635	98.235	7.61	10.2	9.2	6.2	7.12	12.2	15.8	12.0		50.00			
MMAVG														MMAVG		0.45																			
Min.	6.6	0.00	5	4	3	377	176	0	14.4	6.1	1			0.00	0.00	0.17	12	0.10	7	0.05	93.07	92.80	6.9	2.0	3.6	1.2	6.8	3.7	10.8	6.8	31.0	50	0.51	15.0	<0.20
Max.	7.1	0.20	20	13	10	1467	733	8800	18.3	7.9	6			0.00	0.00	0.30	18	0.40	23	0.09	99.39	98.36	8.2	10.8	173.0	14.0	8.1	13.8	79.0	17.4	31.0	120	0.51	15.0	<0.20
Total																																			
Average	6.9	<0.10	10	6	6	690	382	15	16.1	7.1	3			0.00	0.00	0.22	15	0.20	13	0.07	97.63	96.84	7.7	3.0	15.4	5.0	7.2	7.3	19.1	12.2	31.0	59	0.51	15.0	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
11/01/2017		5,270		3,960		8,310		10.00		1,415,520		36,810						47	8,520	5,190	6,280	3,870	15,720	16,520	7.94	6.77	1,843,200	2,174,400	87,933	53,565	4,876	36,227	4,896	36,227	47	48
11/02/2017		5,540		4,100		7,010		9.73		1,241,280		38,696						45	8,510	5,240	6,260	3,990	16,560	16,270	7.39	5.42	1,853,280	2,147,040	87,830	54,081	9,752	71,717	9,873	71,943	47	48
11/03/2017		5,480		4,030		6,920		8.78		1,304,640		38,276						47	8,700	5,470	6,270	4,010	14,960	15,700	6.40	7.09	1,864,800	2,161,440	86,694	56,455	4,766	36,216	4,896	36,062	47	51
11/04/2017		6,110		4,550		8,930		9.30		1,719,360		42,677						49	8,280	5,580	6,060	4,290	15,210	14,450	8.70	7.10	2,027,520	2,185,920	85,456	57,590					58	59
11/05/2017		5,980		4,530		8,270		9.37		1,836,000		41,769						47	8,130	6,190	6,030	4,780	14,700	15,280	8.67	6.93	2,046,240	2,083,680	83,908	63,885					53	49
11/06/2017		6,290		4,670		6,940		8.48	0	1,418,400		43,934						46	9,490	6,500	6,950	4,940	15,100	14,550	5.57	7.65	2,221,920	2,085,120	97,944	67,085			5,608	45,086	49	59
11/07/2017		5,800		4,410		9,190		9.05		1,353,600		40,512						52	9,210	6,130	6,810	4,760	14,300	13,530	6.64	5.85	2,213,280	2,028,960	95,054	63,266	5,794	48,586	9,921	71,966	49	60
11/08/2017		6,390		4,720		8,240		9.00		1,452,960		44,633			2,748	35,926		47	9,140	5,920	6,730	4,590	15,220	13,030	5.90	6.70	2,088,000	2,102,400	94,332	61,099					54	59
11/09/2017		8,730		6,290		9,990		9.28		1,418,400		60,977						34	13,320	6,380	11,900	4,920	14,670	12,680	6.62	5.52	2,361,600	2,217,600	137,472	65,846	5,191	44,347	4,864	44,347	36	58
11/10/2017		6,360		4,880		8,320		9.00		1,756,800		44,423						47	8,730	5,570	6,470	4,500	14,320	13,570	5.10	6.30	2,329,920	2,316,960	90,100	57,487	5,382	45,068			46	59
11/11/2017		6,180		4,510		7,980		9.74		1,356,480		43,166						45	9,140	6,510	6,730	5,010	13,270	13,170	7.53	6.41	1,997,280	2,224,800	94,332	67,188					44	52
11/12/2017		6,780		4,980		7,260		9.55		1,510,560		47,357						43	9,490	6,760	6,960	5,230	14,440	12,760	7.44	6.28	1,912,320	2,145,600	97,944	69,768					45	52
11/13/2017		6,960		4,990		7,440		8.50		1,284,480		48,614						43	9,920	6,740	7,240	5,240	13,300	14,530	8.30	7.00	2,092,320	2,170,080	102,382	69,562	5,161	44,617	4,995	43,892	45	53
11/14/2017		7,010		5,160		9,410		8.69		1,419,840		48,963						47	9,820	6,810	7,180	5,230	12,620	14,320	7.16	8.21	2,223,360	2,206,080	101,350	70,284	5,750	53,631	6,239	53,261	52	59
11/15/2017		7,080		4,590		10,280		8.40		1,703,520		49,452						45	9,140	6,460	6,790	5,100	13,960	13,490	8.10	6.90	2,162,880	2,149,920	94,332	66,672	4,872	45,040	5,231	45,219	47	57
11/16/2017		7,610		5,720		7,750		8.14		1,313,280		53,154			3,932	54,156		46	9,420	6,770	6,940	5,250	13,210	13,780	6.61	7.77	2,165,760	2,178,720	97,221	69,871					51	61
11/17/2017		7,750		5,740		9,690		8.48		1,627,200		54,132						44	10,040	9,870	4,820	4,490	13,070	14,560	7.77	6.43	2,252,160	2,234,880	103,620	101,866	4,864	45,000	5,059	45,000	48	47
11/18/2017		6,600		4,860		11,050		9.78		1,483,200		46,099						52	9,450	7,270	6,860	5,480	13,050	14,950	7.07	8.68	2,160,000	2,160,000	97,531	75,032					50	59
11/19/2017		7,080		5,330		10,810		8.60		1,566,720		49,452						47	9,630	7,530	7,080	5,830	14,240	15,370	5.68	7.90	1,972,800	2,116,800	99,389	77,715					48	53
11/20/2017		7,340		5,480		8,720		9.24		1,699,200		51,268						48	9,760	6,540	7,140	5,530	13,720	15,420	8.34	6.48	1,889,280	2,174,400	100,731	67,498	5,245	44,796	6,283	48,935	56	72
11/21/2017		7,250		5,440		8,530		9.03		1,569,600		50,639						48	9,420	7,120	6,940	5,600	15,130	13,380	6.64	8.57	2,115,360	2,174,400	97,221	73,484	6,404	54,000	7,066	54,000	47	56
11/22/2017		7,990		5,990		9,290		8.96		1,722,240		55,808			3,884	52,652		43	9,160	7,400	6,850	5,730	13,330	16,020	6.59	8.39	2,243,520	2,109,600	94,538	76,374					49	58
11/23/2017		5,080		5,050		10,000		9.51		1,759,680		35,483						69	9,080	6,850	6,820	5,520	12,730	15,690	6.88	8.87	2,220,480	2,206,080	93,712	70,697					50	66
11/24/2017		7,030		5,220		8,290		9.70		1,548,000		49,103						48	9,150	7,130	6,770	5,530	12,810	15,100	7.00	8.82	2,190,240	2,079,360	94,435	73,587	4,898	44,951	5,736	45,234	48	63
11/25/2017		6,730		4,950		9,690		9.47		1,740,960		47,007						49	9,390	7,210	6,770	5,390	13,220	15,430	6.80	9.47	2,016,000	2,112,480	96,912	74,413					50	65
11/26/2017		6,700		4,880		10,220		9.59		1,627,200		46,798						48	9,820	8,370	7,160	6,470	12,710	15,620	6.70	8.62	1,920,960	2,054,880	101,350	86,385					54	74
11/27/2017		7,170		5,410		9,570		9.67		14,198,400		50,081						46	9,940	7,940	7,540	6,090	12,120	15,540	8.72	7.25	1,893,600	2,171,520	102,588	81,947	5,308	45,061	5,179	44,771	48	64
11/28/2017		6,590		4,700		10,000		9.69		1,332,000		46,030						52	9,780	7,600	7,100	5,810	12,670	14,800	7.85	9.46	2,268,000	2,278,080	100,937	78,438	5,806	53,949	6,818	54,136	48	62
11/29/2017		6,920		5,190		8,330		8.82		1,310,400		48,334			3,661	52,694		46	9,210	7,310	6,840	5,640	12,330	15,510	7.28	8.82	2,134,080	2,181,600	95,054	75,445					46	62
11/30/2017		6,560		4,880		10,120		9.28		1,208,160		45,820			4,566	52,486		47	9,460	7,540	6,890	5,740	12,940	16,410	7.91	9.51	2,190,240	2,145,600	97,634	77,818					47	66
MMAVG																																				
Min.		5,080		3,960		6,920		8	0	1,208,160		35,483			2,748	35,926		34	8,130	5,190	4,820	3,870	12,120	12,680	5	5	1,843,200	2,028,960	83,908	53,565	4,766	36,216	4,864	36,062	36	47
Max.		8,730		6,290		11,050		10	0	14,198,400		60,977			4,566	54,156		69	13,320	9,870	11,900	6,470	16,560	16,520	9	10	2,361,600	2,316,960	137,472	101,866	9,752	71,717	9,921	71,966	58	74
Total									0	57,898,080		1,399,467			18,791	247,914											62,870,400	64,778,400	2,913,033	2,104,403	84,069	713,206	92,664	740,079		
Average		6,679		4,974		8,885		9	0	1,929,936		46,649			3,758	49,583		47	9,408	6,797	6,906	5,152	13,854	14,714	7	8	2,095,680	2,159,280	97,101	70,147	5,605	47,547	6,178	49,339	49	58

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Merchant Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
12/01/2017	7.10	12.76	3.65	0.00	0.219	0.000	86,875		48.0	15.7	7.45	140	566	8,290	33,515		7.31	18.0	469		239	27,771	14,152		
12/02/2017	6.40	12.96	3.39	0.00	0.220	0.000	80,977		30.0	14.7	7.45	132	430	7,046	22,952		7.38	13.0	352		167	18,788	8,914		
12/03/2017	6.48	13.44	3.76	0.00	0.228	0.000	3,914		28.0	14.3	7.37	248	356	13,403	19,239		7.32	5.0	175	142	167	9,458	9,025		
12/04/2017	6.37	12.81	3.56	0.00	0.103	0.000	53,681		30.0	14.5	7.61	323	472	17,160	25,075		7.57	1.2	114	90	166	6,056	8,819		
12/05/2017	6.70	26.01	3.88	0.70	0.065	0.384	44,169		32.0	14.2	7.60	312	432	17,434	24,139		7.60	2.5	161	135	221	8,996	12,349		
12/06/2017	9.17	12.34	3.77	0.00	0.063	0.000	57,515		38.0	13.6	7.49	422	706	32,274	53,993		7.53	2.0	131	110	258	10,019	19,731		
12/07/2017	6.96	11.67	3.45	0.00	0.061	0.000	50,615		42.0	14.7	7.46	276	314	16,021	18,227		7.56	1.5	112	85	165	6,501	9,578		
12/08/2017	6.67	12.49	3.45	0.00	0.103	0.000	67,977		24.0	13.8	7.66	362	422	20,137	23,475		7.67	6.0	223	184	276	12,405	15,353		
12/09/2017	6.52	12.07	3.71	0.03	0.036	0.000	3,748		33.0	14.1	7.60	258	312	14,029	16,966		7.65	5.0	201	161	213	10,930	11,582		
12/10/2017	6.79	13.23	7.11	0.00	0.061	0.000			30.0	13.9	7.46	396	320	22,425	18,121		7.56	2.7	157	130	209	8,891	11,835		
12/11/2017	6.68	12.39	3.45	0.00	0.063	0.000	53,339		28.0	13.9	7.64	330	538	18,385	29,973		7.71	2.5	151	116	216	8,412	12,034		
12/12/2017	7.17	13.49	4.29	0.30	0.061	0.000	23,933		27.0	13.9	7.72	341	494	20,391	29,540		7.78	1.5	130	98	203	7,774	12,139		
12/13/2017	6.87	12.25	4.07	0.00	0.064	0.000	48,790		15.0	13.9	7.44	366	354	20,970	20,283		7.76	3.0	161	134	229	9,225	13,121		
12/14/2017	6.55	13.60	3.46	0.00	0.084	0.000	53,116		26.0	15.3	7.51	192	294	10,488	16,060										
12/15/2017	6.32	12.81	3.67	0.00	0.049	0.000	29,356		30.0	15.0	7.38	207	322	10,911	16,972		7.40	3.0	184	149	201	9,698	10,594		
12/16/2017	6.17	12.21	3.50	0.00	0.081	0.000	6,630		31.0	13.0	7.32	186	322	9,571	16,569		7.49	6.5	20	16	149	1,029	7,667		
12/17/2017	6.17	13.16	3.50	0.00	0.057	0.000	2,233		30.0	12.9	7.58	234	272	12,041	13,997		7.59	6.5	216	167	216	11,115	11,115		
12/18/2017	6.06	11.87	3.24	0.00	0.073	0.000	51,366		18.0	12.9	7.39	443	394	22,389	19,913		7.45	2.5	153	123	222	7,733	11,220		
12/19/2017	6.93	13.44	3.93	0.00	0.080	0.000	43,857		47.0	13.8	7.40	327	342	18,899	19,766		7.43	1.5	111	101	179	6,415	10,346		
12/20/2017	6.75	13.45	3.71	0.00	0.073	0.000	27,642		41.0	13.6	7.60	420	254	23,644	14,299		7.63	1.5	120	104	141	6,755	7,938		
12/21/2017	6.20	11.74	3.62	0.00	0.083	0.000	32,131		31.0	13.5	7.64	231	298	11,945	15,409		7.60	2.0	143	126	246	7,394	12,720		
12/22/2017	5.94	11.41	3.72	0.02	0.078	0.000	19,717		21.0	12.9	7.39	423	386	20,955	19,122		7.41	2.8	163	122	177	8,075	8,769		
12/23/2017	7.66	18.13	3.41	0.39	0.076	0.000			22.0	12.5	7.40	84	362	5,366	23,126		7.41	3.0	184	135	93	11,755	5,941		
12/24/2017	7.13	12.98	4.12	0.07	0.086	0.000			28.0	12.3	7.36	206	290	12,250	17,245		7.39	3.1	172	139	162	10,228	9,633		
12/25/2017	6.35	11.55	3.77	0.00	0.074	0.000			20.0	12.2	7.59	213	198	11,280	10,486		7.59	3.0	129	114	184	6,832	9,744		
12/26/2017	6.16	12.14	3.83	0.00	0.086	0.000	14,000		24.0	12.5	7.54	345	314	17,724	16,132		7.69	3.5	149	120	289	7,655	14,847		
12/27/2017	6.30	12.34	4.03	0.00	0.083	0.000	4,412		0.0	11.6	7.59	368	342	19,335	17,969		7.61	2.0	135	118	188	7,093	9,878		
12/28/2017	6.43	12.28	3.71	0.00	0.088	0.000	8,097		10.0	12.6	7.58	411	312	22,040	16,731		7.68	3.0	128	104	173	6,864	9,277		
12/29/2017	6.31	11.81	4.08	0.00	0.094	0.000			6.0	12.1	7.54	365	270	19,208	14,209		7.44	2.0	123		152	6,473	7,999		
12/30/2017	6.10	12.76	3.71	0.00	0.096	0.000			6.0	11.4	7.58	218	240	11,091	12,210		7.57	2.5	133		156	6,766	7,936		
12/31/2017	6.11	11.78	3.85	0.00	0.094	0.000			5.0	11.2	7.66	416	230	21,198	11,720		7.64	2.0	122	93	188	6,217	9,580		
MMAVG	8.45																								
Min.	5.9	11.4	3.2	0.0		0.000	2,233		0.0	11.2	7.32	84	198	5,366	10,486		7.31	1.2	20	16	93	1029	5941		
Max.	9.2	26.0	7.1	0.7		0.384	86,875		48.0	15.7	7.72	443	706	32,274	53,993		7.78	18.0	469	184	289	27771	19731		
Total	205.5	407.4	118.4	1.5		0.384	868,090																		
Average	6.6	13.1	3.8	0.0		0.012	36,170		25.84	13.44	7.52	297	360	16397	20240		7.55	3.8	164	120	195	9111	10795		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
12/01/2017	6.80	0.10	11.0		6.8	651	403	1	14.8	7.2	3.6	0.00	0.00	0.00	0.00						95.143	98.057	7.43	8.4	12.0		7.00	7.6	20.0						
12/02/2017	6.74	0.00	10.6		6.0	566	320	1	14.7	7.5	2.4	0.00	0.00	0.00	0.00						95.455	97.535	7.55	7.8	12.2		7.08	8.2	23.0						
12/03/2017	6.64	0.00	8.8	4.6	5.7	476	308	0	14.5	7.4	3.2	0.00	0.00	0.00	0.00						97.702	97.528	7.64	6.3	8.6	5.8	7.24	9.0	19.4	13.4					
12/04/2017	6.83	<0.10	8.8	4.8	4.6	468	244	0	14.7	7.3	4.0	0.00	0.00	0.00	0.00	0.21	11	0.15	8	0.08	98.576	98.136	7.93	5.7	8.0	4.8	7.39	9.8	20.0	12.8	44.00	<50.00	<0.50	19.00	<0.20
12/05/2017	7.10	<0.10	66.0	52.0	36.0	3,688	2,012	0	14.7	7.3	2.5	0.00	0.00	0.00	0.00						88.462	84.722	7.93	5.3	6.4	3.6	7.37	71.7	220.0	177.0					
12/06/2017	6.96	0.30	11.2	8.8	6.4	857	489	0	14.2	7.5	4.9	0.00	0.00	0.00	0.00						98.483	98.414	7.61	7.7	7.4	6.0	6.85	6.5	18.8	15.2					
12/07/2017	6.56	0.20	4.6	3.4	4.0	267	232	0	13.8	7.4	3.4	0.00	0.00	0.00	0.00						98.551	98.535	7.55	6.3	10.8	7.6	6.89	4.8	12.4	9.0					
12/08/2017	6.51	<0.10	2.6	2.2	3.2	145	178	6	13.8	7.1	2.9	0.00	0.00	0.00	0.00						99.116	99.384	8.13	4.0	7.0	4.6	7.84	6.1	14.0	9.6					
12/09/2017	6.88	<0.10	1.6	2.6	3.3	87	179	7	13.9	7.6	2.3	0.00	0.00	0.00	0.00						98.721	99.487	7.66	3.0	6.0	4.4	8.00	8.9	14.6	10.4					
12/10/2017	6.93	<0.10	21.2	8.2	7.0	1,201	396	4	13.7	7.7	3.0	0.00	0.00	0.00	0.00						98.232	93.375	7.72	2.1	11.8	4.6	7.09	6.0	14.4	10.2					
12/11/2017	6.56	0.10	9.0	5.2	4.4	501	245	11	13.9	7.7	6.2	0.00	0.00	0.00	0.00	0.23	13	0.14	8	0.08	98.667	98.327	7.81	5.8	6.6	3.2	7.14	5.6	16.8	14.8					
12/12/2017	6.86	0.10	10.4	5.6	3.8	622	227	8	13.8	7.5	3.8	0.00	0.00	0.00	0.00						98.886	97.895	7.87	2.0	6.0	4.6	7.20	5.8	18.2	13.8					
12/13/2017	6.92	0.10	46.4	43.0	6.0	2,659	344	12	13.1	7.6	3.4	0.00	0.00	0.00	0.00						98.361	86.893	7.36	5.7	6.8	6.4	6.78	6.5	20.0	16.4					
12/14/2017	6.51	0.20	13.6	10.6	11.0	743	601	36	12.7	7.7	3.7	0.00	0.00	0.00	0.00						94.271	95.374	7.71	20.0	16.2	12.8	7.40	9.4	24.6	18.6					
12/15/2017	6.91	0.00	14.2	10.2	6.7	748	353	40	12.2	7.8	3.9	0.00	0.00	0.00	0.00						96.763	95.590	7.69	6.3	12.8	17.0	6.52	10.4	23.0	17.6					
12/16/2017	6.72	0.01	12.0	9.2	4.6	617	237	42	12.7	12.6	3.8	0.00	0.00	0.00	0.00						97.527	96.273	7.60	2.3	12.0	8.6	6.75	7.5	21.8	14.2					
12/17/2017	6.85	0.01	12.6	9.2	8.4	648	432	14	12.5	8.1	3.4	0.00	0.00	0.00	0.00						96.410	95.368	7.73	3.4	8.6	6.2	7.10	7.2	19.4	13.2					
12/18/2017	6.74	0.20	15.4	12.8	9.3	778	470	3	12.6	7.8	5.2	0.00	0.00	0.00	0.00	0.39	20	0.17	9	0.23	97.901	96.091	7.53	3.5	8.4	7.4	6.83	6.4	16.8	15.4					
12/19/2017	6.55	0.10	10.2	9.2	6.6	590	381	8	12.9	7.8	3.2	0.00	0.00	0.00	0.00						97.982	97.018	7.55	2.0	5.2	4.6	6.75	4.4	19.8	13.8					
12/20/2017	6.72	0.10	9.2	8.2	7.5	518	422	3	12.9	7.7	3.4	0.00	0.00	0.00	0.00						98.214	96.378	7.49	11.4	9.6	9.0	6.88	6.1	16.0	14.4					
12/21/2017	6.70	0.10	8.8	7.0	5.1	455	264	0	12.4	7.8	2.5	0.00	0.00	0.00	0.00						97.792	97.047	7.52	4.7	6.4	6.4	6.93	5.4	17.2	14.2					
12/22/2017	6.73	<0.10	17.0	11.6	7.3	842	362	3	12.4	8.0	2.8	0.00	0.00	0.00	0.00						98.274	95.596	7.44	5.9	10.2	6.0	6.87	10.3	23.6	16.8					
12/23/2017	6.85	<0.10	17.6	10.2	6.3	1,124	402	4	12.2	8.1	1.1	0.00	0.00	0.00	0.00						92.500	95.138	7.47	2.9	26.0	22.4	6.84	11.6	26.0	17.2					
12/24/2017	6.91	0.10	15.8	11.4	4.0	940	238	10	11.4	8.5	2.0	0.00	0.00	0.00	0.00						98.058	94.552	7.38	7.0	87.6	85.6	6.89	10.5	26.4	20.6					
12/25/2017	6.74	0.10	8.2	6.6	3.9	434	207	10	11.4	8.1	1.0	0.00	0.00	0.00	0.00	0.22	12	0.07	4	0.11	98.169	95.859	7.42	5.4	7.6	7.4	6.91	4.1	21.0	18.2					
12/26/2017	6.58	<0.10	10.0	7.8	8.2	514	421	4	11.1	8.5	2.2	0.00	0.00	0.00	0.00						97.623	96.815	7.49	8.2	25.6	22.4	6.85	7.8	22.6	17.4					
12/27/2017	6.84	0.20	12.0	11.6	7.9	631	415	13	10.9	8.6	2.8	0.00	0.00	0.00	0.00						97.853	96.491	7.30	9.8	29.8	30.2	6.67	11.6	16.6	16.4					
12/28/2017	6.50	0.10	6.2	4.8	6.3	332	338	8	10.4	8.6	2.5	0.00	0.00	0.00	0.00						98.467	98.013	7.49	4.3	14.6	13.0	6.88	6.5	20.0	15.2					
12/29/2017	6.58	<0.10	10.6		5.7	558	300	17	10.2	8.6	3.0	0.00	0.00	0.00	0.00						98.438	96.074	7.52	3.8	12.0		7.00	5.9	19.2						
12/30/2017	7.02	0.02	11.0		5.5	560	280	4	10.6	8.5	3.7	0.00	0.00	0.00	0.00						97.477	95.417	7.58	4.9	10.4		7.08	9.2	20.2						
12/31/2017	7.01	0.01	9.6	7.4	4.3	489	219	7	10.2	8.6	3.5	0.00	0.00	0.00	0.00						98.966	95.826	8.18	3.2	10.4	7.0	7.91	6.8	19.2	14.6					
MMAVG														MMAVG		0.45																			
Min.	6.5	0.00	2	2	3	87	178	0	10.2	7.1	1			0.00	0.00	0.21	11	0.07	4	0.08	88.46	84.72	7.3	2.0	5.2	3.2	6.5	4.1	12.4	9.0	44.0	<50	<0.50	19.0	<0.20
Max.	7.1	0.30	66	52	36	3688	2012	42	14.8	12.6	6			0.00	0.00	0.39	20	0.17	9	0.23	99.12	99.49	8.2	20.0	87.6	85.6	8.0	71.7	220.0	177.0	44.0	<50	<0.50	19.0	<0.20
Total																																			
Average	6.8	<0.10	14	11	7	765	385	5	12.8	8.0	3			0.00	0.00	0.26	14	0.13	7	0.13	97.32	96.04	7.6	5.8	13.6	11.9	7.1	9.6	26.0	20.8	44.0	<50	<0.50	19.0	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
12/01/2017		6,730		5,040		9,630		8.81		1,036,800		47,007						46	8,560	7,680	6,090	6,110	13,370	16,900	6.79	8.68	2,090,880	1,944,000	88,346	79,263	4,934	45,026	6,149	45,040	54	66
12/02/2017		7,000		5,250		10,120		8.94		1,221,120		48,893						50	9,440	7,720	7,080	6,100	12,700	16,360	6.86	7.97	2,145,600	2,062,080	97,428	79,676					43	60
12/03/2017		6,500		4,950		8,650		8.90		1,156,320		45,401						55	9,160	7,960	6,790	6,240	12,170	16,550	6.87	7.88	2,220,480	2,072,160	86,694	82,153					51	70
12/04/2017		6,880		4,860		10,020		9.24		1,036,800		48,055			4,150	52,743		51	9,820	8,260	6,940	6,180	13,580	16,590	7.03	8.03	2,132,640	2,161,440	101,350	85,249					48	71
12/05/2017		6,230		5,240		10,180		9.11		1,234,080		43,515						51	7,450	8,350	4,300	6,370	7,790	16,610	7.12	8.00	2,112,480	2,092,320	76,890	86,178			11,300	83,893	66	70
12/06/2017		6,860		5,120		10,080		9.31		1,058,400		47,915						47	9,560	5,740	7,050	4,390	14,200	14,300	6.56	9.07	2,085,120	2,116,800	98,666	59,241			10,450	84,069	48	68
12/07/2017		6,630		5,100		8,040		9.19		1,218,240		46,309						50	8,980	8,190	6,740	6,430	14,850	15,350	6.03	5.83	2,305,440	2,086,560	92,680	84,527	5,878	45,241	5,514	45,068	50	79
12/08/2017		6,560		4,900		10,020		9.48		1,540,800		45,820						49	8,640	8,250	6,440	6,360	14,240	15,190	6.76	8.67	2,226,240	2,178,720	89,171	85,146	5,032	43,238	5,596	43,140	51	66
12/09/2017		6,900		5,390		9,150		10.00		1,411,200		48,195						41	7,860	8,730	5,990	6,740	14,300	13,290	5.60	6.70	2,272,320	2,108,160	81,121	90,100	5,362	44,958	4,992	45,034	45	61
12/10/2017		6,800		5,180		10,180		10.00		1,484,640		47,496						44	8,250	8,520	6,180	6,580	12,620	14,670	8.80	7.10	2,262,240	2,079,360	85,146	87,933	4,747	45,098	5,509	45,024	45	51
12/11/2017		6,930		5,160		11,400		10.00		1,140,480		48,404			4,740	52,671		51	7,740	8,590	5,770	6,540	13,530	15,530	7.56	8.94	2,311,200	2,197,440	79,883	88,655					50	68
12/12/2017		6,710		5,260		10,510		8.72		1,195,200		46,868						48	7,670	8,560	5,890	6,680	13,620	14,640	6.64	5.93	2,262,240	2,154,240	79,160	88,346	4,276	36,046	4,623	36,099	50	69
12/13/2017		6,840		5,310		10,170		9.02		1,224,000		47,776						50	8,040	8,350	6,190	6,480	13,190	15,280	7.03	6.73	2,374,560	2,139,840	82,979	86,178	4,215	36,111	4,635	35,928	45	71
12/14/2017		800		600		810		10.00		2,592,000		5,588						75	6,900	9,020	5,440	7,120	12,770	14,370	7.41	6.82	2,304,000	2,116,800	71,213	93,093			6,416	52,477	94	47
12/15/2017		6,790		5,140		11,380		8.75		1,324,800		47,426						52	8,170	9,860	6,220	7,630	13,320	14,070	7.40	7.23	2,304,000	2,188,800	84,321	101,763	3,933	36,134	4,108	36,029	48	64
12/16/2017		7,250		5,530		12,180		9.12		3,636,000		50,639			4,625	52,711		48	7,680	9,170	5,970	6,960	13,120	13,140	7.67	7.56	2,473,920	2,219,040	79,263	94,641					47	53
12/17/2017		7,020		5,380		11,600		9.34		3,636,000		49,033			5,075	52,462		50	7,810	9,330	6,270	7,210	13,310	14,150	7.57	7.61	2,462,400	2,268,000	80,605	96,293					51	54
12/18/2017		4,300		3,290		2,970		9.76		3,634,560		30,034						47	8,460	9,640	6,270	7,270	14,180	14,010	7.10	7.07	2,426,400	2,208,960	87,314	99,492	4,154	36,240	4,235	36,062	57	73
12/19/2017		7,080		5,450		9,700		8.50		3,636,000		49,452						49	8,310	9,480	6,380	7,230	13,240	12,960	7.10	6.80	2,512,800	2,232,000	85,765	97,841					46	50
12/20/2017		7,160		5,460		12,020		9.00		3,636,000		50,011						56	8,360	9,190	6,540	7,110	13,680	13,860	6.80	7.00	2,367,360	2,220,480	86,281	94,848	4,090	36,085	4,132	36,020	51	63
12/21/2017		6,930		5,410		10,870				3,637,440		48,404			3,613	52,576		59	7,790	9,010	6,110	7,040	13,410	13,960	7.00	7.00	2,446,560	2,304,000	80,399	92,990					59	68
12/22/2017		5,790		4,520		11,560		9.62		3,636,000		40,442						54	8,180	9,390	6,410	7,240	13,860	14,040	7.32	7.37	2,489,760	2,203,200	84,424	96,912	4,018	35,335	4,085	34,985	55	67
12/23/2017		7,360		5,740		11,020		9.48		1,224,000		51,408						52	8,370	9,800	6,490	9,500	13,790	13,960	7.82	8.20	2,534,400	2,232,000	86,385	101,143					54	62
12/24/2017		3,650		2,810		8,520		10.00		820,800		25,494						55	8,480	9,410	6,410	7,050	13,780	15,350	8.33	9.84	2,592,000	2,160,000	87,520	97,118					53	62
12/25/2017		7,740		6,030		11,290		9.60		1,226,880		54,062						49	7,330	9,460	5,490	7,200	14,180	15,950	8.70	7.60	2,607,840	2,145,600	75,651	97,634					55	53
12/26/2017		7,560		5,580		11,570		10.00		2,327,040		52,805						54	8,440	10,240	6,390	7,560	14,160	13,980	8.24	9.56	2,505,600	2,217,600	87,107	105,684	4,266	36,101	4,484	35,925	64	73
12/27/2017		7,030		5,680		12,240		10.00		1,198,080		49,103						53	7,940	9,650	6,290	7,480	13,430	14,450	8.58	9.94	2,432,160	2,249,280	81,947	99,595	5,053	45,114	5,441	45,147	58	68
12/28/2017		7,930		5,730		11,600		10.00		1,320,480		55,389						50	7,610	8,730	6,160	7,850	13,040	15,510	8.57	10.00	2,453,760	2,220,480	78,541	90,100	5,040	45,000	5,676	45,308	59	76
12/29/2017		7,850		5,650		11,940		10.00		1,267,200		54,830						51	7,560	9,110	5,910	7,140	13,820	14,700	8.49	10.00	2,433,600	2,236,320	78,025	94,022	5,024	45,089	5,161	45,172	53	60
12/30/2017		5,520		5,020		10,890		10.00		1,277,280		38,556			4,195	45,129		78	7,150	9,010	5,740	6,810	11,640	12,650	8.74	10.00	2,571,840	2,322,720	73,793	92,990					64	73
12/31/2017		6,510		6,060		11,130		10.00		1,238,400		45,471						65	6,920	8,470	6,110	7,230	12,440	14,730	8.54	10.00	2,505,600	2,289,600	71,420	87,417	3,641	36,257	4,109	35,985	69	80
MMAVG																																				
Min.		800		600		810		9		820,800		5,588			3,613	45,129		41	6,900	5,740	4,300	4,390	7,790	12,650	6	6	2,085,120	1,944,000	71,213	59,241	3,641	35,335	4,085	34,985	43	47
Max.		7,930		6,060		12,240		10		3,637,440		55,389			5,075	52,743		78	9,820	10,240	7,080	9,500	14,850	16,900	9	10	2,607,840	2,322,720	101,350	105,684	5,878	45,241	11,300	84,069	94	80
Total										57,227,040		1,409,801			26,398	308,292											73,225,440	67,428,000	2,607,332	2,816,221	73,663	647,073	106,615	866,405		
Average		6,511		5,027		10,046		9		1,846,034		45,477			4,400	51,382		52	8,149	8,802	6,195	6,898	13,269	14,745	7	8	2,362,111	2,175,097	84,107	90,846	4,604	40,442	5,611	45,600	54	65

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
01/01/2018	5.72	11.92	3.71	0.00	0.091	0.000			-1.0	11.4	7.57	180	278	8,587	13,262		7.55	2.2	143	114	183	6,822	8,730		
01/02/2018	6.40	12.34	3.66	0.00	0.095	0.000	17,117		6.0	11.2	7.63	333	406	17,774	21,671		7.62	3.3	158	129	227	8,433	12,116		
01/03/2018	5.96	10.92	3.62	0.00	0.097	0.000	36,139		10.0	11.4	7.62	309	338	15,359	16,801		7.52	4.5	197	163	258	9,792	12,824		
01/04/2018	5.82	9.23	3.08	0.20	0.102	0.000			18.0	11.4	7.79	234	268	11,358	13,008		7.74	3.5	161	130	209	7,815	10,145		
01/05/2018	5.84	10.72	4.02	0.00	0.106	0.000			10.0	9.9	7.42	155	318	7,549	15,488		7.60	2.0	125		165	6,088	8,036		
01/06/2018	5.91	9.77	3.39	0.00	0.103	0.000			5.0	7.1	7.49	122	244	6,013	12,027		7.34	1.5	187		128	9,217	6,309		
01/07/2018	5.80	9.31	3.51	0.00	0.120	0.000			5.0	10.8	7.61	246	282	11,900	13,641		7.50	2.5	120	101	180	5,805	8,707		
01/08/2018	5.93	10.68	3.58	0.00	0.091	0.000	18,389		16.0	11.8	7.76	318	400	15,727	19,782		7.68	2.2	147	117	186	7,270	9,199		
01/09/2018	6.16	9.30	0.05	0.00	0.106	0.000	10,726		26.0	11.8							7.60	2.8	286	246	174	14,693	8,939		
01/10/2018	6.11	9.81	2.92	0.00	0.123	0.000	29,375		13.0	11.7	7.75	318	524	16,204	26,702		7.63	3.5	170	135	180	8,663	9,172		
01/11/2018	7.12	12.56	0.04	0.00	0.126	0.000	20,259		36.0	11.8	7.67	323	502	19,180	29,809		7.59	2.5	167	124	165	9,917	9,798		
01/12/2018	8.91	35.13	6.66	0.76	0.134	8.437			38.0	10.8	7.47	158	338	11,741	25,117		7.36	3.0	145	86	90	10,775	6,688		
01/13/2018	18.06	21.11	9.64	0.00	0.082	4.546			60.0	8.8	7.41	147	168	22,141	25,304		7.47	2.0	76	46	75	11,447	11,297		
01/14/2018	11.78	15.27	8.28	0.00	0.015	0.000			12.0	9.3	7.46	131	144	12,870	14,147		7.49	2.0	108	86	90	10,610	8,842		
01/15/2018	13.30	14.11	7.48	0.00	0.006	0.000	38,947		10.0	9.6	7.49	162	208	17,969	23,072		7.57	0.6	93	87	108	10,316	11,980		
01/16/2018	9.48	15.46	6.92	0.12	0.001	0.000	35,247		18.0	9.8	7.75	252	282	19,924	22,296		7.79	0.6	126	93	159	9,962	12,571		
01/17/2018	9.01	11.58	6.54	0.11	0.063	0.000			28.0	10.8	7.65	210	222	15,780	16,682		7.63	1.6	98	77	144	7,364	10,821		
01/18/2018	8.61	14.04	5.12	0.00	1.451	0.000	27,637		17.0	10.3	7.65	234	296	16,803	21,255		7.68	1.0	121	93	116	8,689	8,330		
01/19/2018	8.15	13.03	5.56	0.00	0.179	0.000	17,294		22.0	10.0	7.69	171	300	11,623	20,391		7.68	1.6	128	96	75	8,700	5,098		
01/20/2018	8.28	11.51	4.96	0.00	0.000	0.000	13,230		34.0	10.2	6.90	123	250	8,494	17,264		7.61	5.0	127	103	87	8,770	6,008		
01/21/2018	8.12	11.98	4.97	0.00	0.000	0.000			36.0	10.2	7.46	227	282	15,373	19,097		7.56	1.9	135	108	131	9,142	8,871		
01/22/2018	8.04	12.44	5.08	0.10	0.000	0.000	14,417		32.0	10.1	7.60	198	316	13,277	21,189		7.64	3.6	145	110	140	9,723	9,388		
01/23/2018	9.14	23.54	10.89	0.67	0.000	0.229			32.0	9.9	7.55	155	280	11,815	21,344		7.53	1.3	110	80	90	8,385	6,860		
01/24/2018	9.80	15.31	6.60	0.00	0.000	0.000	35,641		30.0	9.2	7.74	176	266	14,385	21,741		7.79	10.0	201	159	140	16,428	11,442		
01/25/2018	9.04	14.72	5.64	0.00	0.000	0.000	23,425		16.0	9.6	7.50	197	254	14,853	19,150		7.53	1.1	87	71	108	6,559	8,143		
01/26/2018	8.25	12.49	5.81	0.00	0.000	0.000	35,800		12.0	9.4	7.50	39	374	2,683	25,733		7.43	1.3	120	96	45	8,257	3,096		
01/27/2018	8.39	13.93	6.23	0.04	0.000	0.000			33.0	9.9	7.52	243	262	17,003	18,333		7.41	15.0	117	82	102	8,187	7,137		
01/28/2018	9.05	15.10	5.73	0.00	0.000	0.000			42.0	9.3	7.55	185	328	13,963	24,756		7.60	0.6	101	74	110	7,623	8,302		
01/29/2018	8.25	13.13	5.65	0.00	0.000	0.000	33,800		27.0	9.6	7.67	197	306	13,555	21,054		7.80	0.5	98	79	144	6,743	9,908		
01/30/2018	8.14	12.52	5.95	0.00	0.067	0.000	8,000		21.0	10.0	7.70	233	358	15,818	24,304		7.85	2.6	127	103	65	8,622	4,413		
01/31/2018	7.79	11.25	5.02	0.00	0.083	0.000	14,371		12.0	9.9	7.62	276	360	17,931	23,389		7.74	2.5	142	109	203	9,226	13,189		
MMAVG	8.37																								
Min.	5.7	9.2	0.0	0.0		0.000	8,000		-1.0	7.1	6.90	39	144	2,683	12,027		7.34	0.5	76	46	45	5805	3096		
Max.	18.1	35.1	10.9	0.8		8.437	38,947		60.0	11.8	7.79	333	524	22,141	29,809		7.85	15.0	286	246	258	16428	13189		
Total	256.4	424.2	160.3	2.0		13.212	429,814																		
Average	8.3	13.7	5.2	0.1		0.426	23,879		21.81	10.23	7.57	208	305	13922	20260		7.60	2.8	138	107	138	9034	8915		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
01/01/2018	7.03	0.01	6.2	4.6	4.7	296	224	9	9.8	8.9	2.8	0.00	0.00	0.00	0.00	0.28	13	0.10	5	0.12	97.389	97.770					7.07	5.7	18.6	14.2					
01/02/2018	6.69	<0.10	10.0	6.2	6.8	534	363	10	9.9	8.9	3.7	0.00	0.00	0.00	0.00						97.958	97.537	7.70	17.0	22.0	19.8	7.34	6.4	16.8	13.0					
01/03/2018	7.04	0.10	8.8	5.2	8.0	437	398	8	10.1	8.5	3.7	0.00	0.00	0.00	0.00						97.411	97.396	7.63	6.6	12.0	10.0	7.27	8.4	21.8	13.0					
01/04/2018	6.96	<0.10	12.4	6.8	8.9	602	432	3	10.1	8.6	2.6	0.00	0.00	0.00	0.00						96.197	95.373	7.81	5.5	11.0	8.2	7.35	10.4	20.8	14.2					
01/05/2018	6.96	<0.10	12.4		4.4	604	214	5	9.1	8.3	3.5	0.00	0.00	0.00	0.00						97.161	96.101	7.47	4.3	14.0		6.90	3.7	22.4						
01/06/2018	6.66	0.00	11.4		6.4	562	315	2	9.0	8.7	1.7	0.00	0.00	0.00	0.00						94.754	95.328	7.34	4.1	13.0		6.82	5.1	20.8						
01/07/2018	6.56	0.00	10.2	6.6	6.6	493	319	3	9.0	8.9	1.9	0.00	0.00	0.00	0.00						97.317	96.383	7.47	4.4	8.8	6.2	7.00	6.4	18.0	15.8					
01/08/2018	6.60	<0.10	9.8	6.0	6.0	485	297	4	9.7	8.6	3.1	0.00	0.00	0.00	0.00	0.30	15	0.13	6	0.20	98.113	97.550	7.74	3.8	8.6	5.2	7.28	5.9	17.0	11.8	58.00	<50.00	<0.50	36.00	<0.20
01/09/2018	6.91	<0.10	10.0	4.0	11.0	514	565	5	10.4	8.3	2.9	0.00	0.00	0.00	0.00								7.73	21.5	15.0	12.6	7.27	5.8	15.4	11.4					
01/10/2018	6.90	<0.10	6.6	3.2	9.2	336	469	3	10.1	7.4	6.5	0.00	0.00	0.00	0.00						97.107	98.740	7.69	15.5	13.6	9.0	7.11	6.2	15.2	9.0					
01/11/2018	7.02	<0.10	9.8	6.2	7.1	582	422	0	10.9	8.3	2.7	0.00	0.00	0.00	0.00						97.802	98.048	7.66	5.1	8.2	4.4	7.11	6.6	13.8	9.8					
01/12/2018	6.85	<0.10	46.8	25.0	41.4	3,478	3,076	15	10.9	8.2	2.8	0.00	0.00	0.00	0.00						73.797	86.154	8.10	10.2	14.4	8.0	7.94	6.3	8.0	5.2					
01/13/2018	6.91	1.00	47.6	33.8	42.0	7,170	6,326	3500	8.7	8.6	17.4	0.00	0.00	0.00	0.00						71.429	71.667	8.07	4.5	8.2	5.4	7.94	4.0	10.4	5.8					
01/14/2018	6.71	<0.10	8.8	6.6	7.4	865	727	11	8.6	8.5	3.3	0.00	0.00	0.00	0.00						94.351	93.889	8.07	4.9	11.4	7.2	7.74	12.0	24.4	16.6					
01/15/2018	6.71	<0.10	11.0	6.0	5.9	1,220	654	0	8.9	9.4	3.2	0.00	0.00	0.00	0.00	0.26	29	0.11	12	0.09	96.358	94.712	7.55	3.7	12.2	7.8	7.04	6.0	19.0	13.4					
01/16/2018	6.76	<0.10	11.6	6.8	5.1	917	403	21	9.4	8.9	3.8	0.00	0.00	0.00	0.00						97.976	95.887	7.49	5.7	12.6	7.2	7.11	5.6	14.4	10.0				21.00	
01/17/2018	6.91	<0.10	7.8	6.0	5.5	586	413	4	9.8	8.6	6.5	0.00	0.00	0.00	0.00						97.381	96.486	7.62	4.5	10.4	6.2	7.30	4.2	11.6	8.8					
01/18/2018	7.01	<0.10	8.4	5.0	6.9	603	495	12	9.8	8.4	3.8	0.00	0.00	0.00	0.00						97.051	97.162	7.67	5.9	9.8	7.4	7.20	6.2	12.4	9.0					
01/19/2018	7.02	<0.10	11.6	9.0	6.6	788	449	7	9.8	8.5	3.2	0.00	0.00	0.00	0.00						96.140	96.133	7.66	4.0	11.0	8.2	7.20	7.1	16.0	11.0					
01/20/2018	6.65	<0.10	8.6	8.0	4.7	594	325	8	10.1	8.1	3.1	0.00	0.00	0.00	0.00						96.179	96.560	7.58	4.1	9.8	7.0	7.10	7.2	17.0	13.0					
01/21/2018	6.70	0.00	9.4	6.4	6.4	637	433	0	10.2	8.2	3.8	0.00	0.00	0.00	0.00						97.181	96.667	7.58	4.4	10.8	5.4	7.17	6.1	13.6	10.0					
01/22/2018	6.63	<0.10	9.2	5.4	6.2	617	416	2	10.6	8.1	5.6	0.00	0.00	0.00	0.00	0.19	13	0.12	8	0.09	96.869	97.089	7.70	4.7	11.0	6.2	7.33	5.7	14.8	9.6					
01/23/2018	6.98	<0.10	37.4	22.6	30.9	2,851	2,355	4	10.4	8.3	4.6	0.00	0.00	0.00	0.00						80.065	86.643	7.76	4.8	9.8	6.4	7.18	5.1	12.0	7.2					
01/24/2018	6.84	0.10	11.2	5.8	6.1	915	499	3	9.1	8.8	5.1	0.00	0.00	0.00	0.00						96.534	95.789	7.61	4.3	11.0	8.2	7.30	5.6	14.0	9.6					
01/25/2018	6.90	<0.10	7.6	4.6	6.7	573	505	6	9.2	8.5	4.3	0.00	0.00	0.00	0.00						96.599	97.008	7.52	5.6	12.2	6.8	7.31	7.4	12.8	9.2					
01/26/2018	6.68	<0.10	13.0	8.4	5.2	894	358	10	9.1	9.0	3.8	0.00	0.00	0.00	0.00						86.667	96.524	7.32	4.0	23.4	19.0	6.79	4.0	16.0	11.0					
01/27/2018	6.73	<0.10	10.4	6.0	4.1	728	287	6	9.6	8.7	0.8	0.00	0.00	0.00	0.00						98.313	96.031	7.29	3.3	9.8	6.0	6.88	4.6	15.4	10.0					
01/28/2018	6.67	0.10	8.6	4.4	4.7	649	355	7	10.3	8.5	2.1	0.00	0.00	0.00	0.00						97.459	97.378	7.53	3.1	9.2	6.0	7.19	4.8	12.6	10.2					
01/29/2018	6.64	<0.10	10.4	6.4	4.5	716	310	9	10.0	8.5	2.9	0.00	0.00	0.00	0.00	0.22	15	0.12	8	0.10	97.716	96.601	7.60	4.6	9.6	6.8	7.24	5.0	14.4	11.0					
01/30/2018	6.90	<0.10	9.8	4.4	5.4	665	367	7	9.8	8.3	2.9	0.00	0.00	0.00	0.00						97.682	97.263	7.68	3.8	9.0	6.6	7.40	5.7	16.0	11.8					
01/31/2018	6.86	<0.10	10.6	7.4	6.6	689	429	22	9.6	8.4	4.8	0.00	0.00	0.00	0.00						97.609	97.056	7.73	4.4	11.2	8.2	7.28	9.2	21.0	16.2					
MMAVG														MMAVG		0.44																			
Min.	6.6	0.00	6	3	4	296	214	0	8.6	7.4	1			0.00	0.00	0.19	13	0.10	5	0.09	71.43	71.67	7.3	3.1	8.2	4.4	6.8	3.7	8.0	5.2	58.0	<50	<0.50	21.0	<0.20
Max.	7.0	1.00	48	34	42	7170	6326	3500	10.9	9.4	17			0.00	0.00	0.30	29	0.13	12	0.20	98.31	98.74	8.1	21.5	23.4	19.8	7.9	12.0	24.4	16.6	58.0	<50	<0.50	36.0	<0.20
Total																																			
Average	6.8	<0.12	13	8	9	1019	748	6	9.7	8.5	4			0.00	0.00	0.25	17	0.12	8	0.12	94.49	95.10	7.6	6.1	11.8	8.1	7.2	6.2	16.0	11.1	58.0	<50	<0.50	28.5	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
01/01/2018		8,030		5,810		12,060		10.00		1,320,480		56,088						51	7,770	8,630	6,050	7,060	13,240	12,380	10.00	8.82	2,554,560	2,463,840	80,192	89,068	5,225	36,048	3,733	36,160	54	61
01/02/2018		6,930		6,080		11,410		10.00		1,199,520		48,404						61	6,750	8,200	5,840	7,080	12,450	12,250	10.00	8.80	2,407,680	2,367,360	69,665	84,630	3,978	36,028	3,732	36,143	68	72
01/03/2018		8,380		6,270		11,840		9.10		1,224,000		58,532						53	7,910	8,970	6,020	6,640	12,790	12,720	10.00	7.79	2,520,000	2,217,600	86,694	92,577					58	61
01/04/2018		7,630		6,060		12,350		8.65		1,252,800		53,294			4,557	45,198		54	8,680	12,420	6,790	9,560	17,580	13,170	9.58	7.55	2,476,800	2,178,720	89,584	128,184					50	41
01/05/2018		8,170		5,780		11,990		9.67		1,251,360		57,065						53	8,530	9,150	6,640	6,770	13,700	12,470	10.00	6.16	2,488,320	2,259,360	88,036	94,435	4,695	35,994	3,862	36,124	65	72
01/06/2018		8,060		6,460		10,350		10.00		489,600		56,297						62	8,070	8,610	6,460	6,930	13,720	12,730	9.04	10.00	2,491,200	2,246,400	83,288	88,862					63	70
01/07/2018		7,340		6,660		9,300		10.00		2,160,000		51,268						61	7,850	8,430	6,570	7,140	12,840	11,480	9.19	10.00	2,530,080	2,301,120	81,018	87,004					56	59
01/08/2018		8,400		6,780		11,470		9.50		972,000		58,672						60	8,000	9,010	6,600	6,950	13,980	12,540	7.94	9.45	2,432,160	2,394,720	82,566	92,990	3,649	35,994	3,448	36,009	66	70
01/09/2018		9,020		7,200		11,470		9.07		937,440		63,002						60	8,580	9,370	6,770	7,250	14,390	12,340	7.64	8.64	2,494,080	2,295,360	88,552	96,705					65	65
01/10/2018		9,570		7,540		9,730		9.41		1,382,400		66,844			3,944	45,320		64	8,540	9,310	6,880	7,330	14,250	12,660	7.58	9.03	2,592,000	2,223,360	88,139	96,086					71	71
01/11/2018		6,170		4,860		15,520		9.77		1,152,000		43,096						54	8,900	9,580	6,940	7,440	14,350	13,310	7.38	8.70	2,355,840	2,401,920	91,855	98,873	4,123	34,575	3,885	35,884	61	65
01/12/2018		1,690		1,380		1,460		10.00		1,152,000		11,804						59	8,650	11,020	5,420	7,450	15,150	14,710	7.90	8.55	2,491,200	2,177,280	89,274	113,735	5,173	43,252	5,408	44,971	58	50
01/13/2018		8,630		6,800		13,650		10.00		1,622,880		60,278						58	7,530	7,370	5,900	5,730	15,200	15,740	9.60	9.20	2,491,200	2,161,440	77,715	76,064	4,570	36,047	4,709	35,872	62	61
01/14/2018		7,820		6,250		12,160		10.00		1,692,000		54,621						51	6,770	7,600	5,500	6,070	15,440	13,500	10.00	9.38	2,499,840	2,324,160	69,871	78,438	4,627	35,935	4,054	36,007	56	49
01/15/2018		7,020		5,690		13,130		10.00		3,633,120		49,033			4,738	44,932		63	5,590	6,400	4,840	5,150	14,610	13,910	10.00	10.00	2,448,000	2,181,600	57,693	66,053					68	66
01/16/2018		8,160		6,570		13,080		10.00		558,720		56,996						55	6,520	7,070	5,210	5,570	14,580	15,340	9.54	9.25	2,433,600	2,208,960	67,291	72,968	4,492	36,134	4,710	36,029	55	58
01/17/2018		7,300		5,690		12,290		8.52		573,120		50,989						52	6,590	8,040	5,030	6,110	14,260	15,200	9.24	8.79	2,373,120	2,206,080	68,014	82,979	5,460	45,163	5,763	44,985	59	66
01/18/2018		8,030		6,350		12,930		8.08		1,440,000		56,088						54	6,450	8,310	4,960	6,440	12,810	13,550	9.16	8.36	2,347,200	2,203,200	66,569	85,765	5,053	45,046	5,277	44,813	59	67
01/19/2018		7,830		6,130		13,470		10.00		538,560		54,691						51	6,450	8,670	4,900	6,500	13,530	15,490	9.16	8.36	2,347,200	2,203,200	66,569	89,481	5,284	45,859	5,771	44,893	54	54
01/20/2018		8,370		6,560		12,840		10.00		633,600		58,462			4,825	45,059		50	6,380	8,760	4,910	6,720	12,490	15,010	8.90	7.74	2,491,200	2,049,120	65,846	90,410					55	58
01/21/2018		8,490		6,630		13,110		10.00		542,880		59,301						52	6,440	9,200	4,870	6,980	12,240	14,840	8.69	7.40	2,468,160	2,191,680	66,466	94,951	3,930	35,942	3,676	36,010	56	55
01/22/2018		8,200		6,790		12,660		10.00		512,640		57,275						59	8,200	8,980	6,170	7,050	12,660	15,550	7.60	8.90	2,347,200	2,325,600	84,630	92,680	4,670	44,979	5,707	45,034	44	64
01/23/2018		8,370		6,600		7,570		10.00		604,800		58,462						48	5,500	8,620	3,520	6,600	12,080	14,030	9.04	7.62	2,472,480	2,161,440	56,764	88,965					60	58
01/24/2018		8,080		6,360		12,280		10.00		629,280		56,437						56	5,730	12,050	4,640	9,820	7,190	14,980	9.20	9.90	2,393,280	2,270,880	59,138	124,365	3,913	45,009	6,072	45,237	61	38
01/25/2018		7,690		6,040		12,600		9.20		529,920		53,713						68	5,530	8,220	4,350	6,350	10,680	14,150	9.89	8.72	2,486,880	2,155,680	57,074	84,837	4,830	45,049	5,925	45,281	72	82
01/26/2018		8,570		6,760		13,310		10.00		645,120		59,859			4,672	43,243		58	5,640	11,440	4,540	10,250	8,670	14,140	8.50	9.80	2,448,000	2,260,800	58,209	118,069					62	51
01/27/2018		8,710		6,740		13,530		9.22		642,240		60,837						56	6,030	9,660	4,820	7,550	12,300	14,850	9.56	8.53	2,491,200	2,151,360	62,234	99,698					58	66
01/28/2018		9,130		7,170		12,220		8.87		669,600		63,771						57	5,890	9,140	4,490	7,070	11,990	15,550	9.32	8.62	2,494,080	2,203,200	60,789	94,332					59	67
01/29/2018		9,320		7,340		13,220		9.14		1,229,760		65,098						53	6,040	9,460	4,770	7,340	11,670	15,620	9.37	8.38	2,476,800	2,263,680	62,337	97,634	3,549	35,976	4,706	36,209	56	61
01/30/2018		6,870		5,400		13,330		9.27		1,036,800		47,985						76	5,630	9,260	4,630	7,200	11,620	15,140	9.33	7.98	2,473,920	2,165,760	58,106	95,570			5,861	46,414	62	71
01/31/2018		9,290		6,540		14,780		10.00		1,031,040		64,888						57	6,170	9,590	4,950	7,150	12,140	15,860	8.57	7.61	2,468,160	2,187,360	63,679	98,976	4,566	35,970	3,694	35,920	62	72
MMAVG																																				
Min.		1,690		1,380		1,460		8		489,600		11,804			3,944	43,243		48	5,500	6,400	3,520	5,150	7,190	11,480	7	6	2,347,200	2,049,120	56,764	66,053	3,549	34,575	3,448	35,872	44	38
Max.		9,570		7,540		15,520		10		3,633,120		66,844			4,825	45,320		76	8,900	12,420	6,940	10,250	17,580	15,860	10	10	2,592,000	2,463,840	91,855	128,184	5,460	45,859	6,072	46,414	72	82
Total										33,259,680		1,713,150			22,736	223,752											76,285,440	69,402,240	2,242,800	2,895,384	81,787	709,000	89,993	757,995		
Average		7,912		6,235		11,971		10		1,072,893		55,263			4,547	44,750		57	7,010	9,050	5,483	7,073	13,052	14,039	9	9	2,460,821	2,238,782	72,348	93,399	4,544	39,389	4,736	39,894	60	62

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
02/01/2018	7.81	11.13	5.97	0.15	0.084	0.000	20,948		24.0	10.0	7.64	288	378	18,759	24,621		7.79	2.5	130	107	140	8,468	9,119		
02/02/2018	7.84	11.29	4.60	0.00	0.129	0.000	8,623		30.0	9.6	7.48	197	302	12,881	19,746		7.57	3.0	126		117	8,239	7,650		
02/03/2018	7.12	10.30	4.60	0.00	0.081	0.000	921		11.0	10.8	7.42	198	290	11,757	17,220		7.45	3.5	131		108	7,779	6,413		
02/04/2018	8.36	22.68	5.02	0.50	0.079	1.654			32.0	9.9	7.63	178	288	12,411	20,080		7.64	4.0	151	107	125	10,528	8,715		
02/05/2018	10.57	12.49	5.66	0.00	0.081	0.000	7,158		31.0	9.0	7.68	240	318	21,157	28,033		7.73	2.5	131	96	125	11,548	11,019		
02/06/2018	7.67	15.09	5.54	0.00	0.082	0.000	8,016		17.0	9.7	7.52	339	534	21,685	34,159		7.77	2.0	131	106	135	8,380	8,636		
02/07/2018	8.00	13.88	5.38	0.80	0.080	0.000			15.0	9.8	7.71	222	308	14,812	20,550		7.74	2.5	121	96	120	8,073	8,006		
02/08/2018	8.13	12.12	5.12	0.00	0.078	0.000			18.0	9.4	7.64	234	340	15,866	23,053		7.76	2.1	108	84	122	7,323	8,272		
02/09/2018	7.33	11.08	4.78	0.00	0.078	0.000	14,037		10.0	9.7							7.45	2.0	130		84	7,947	5,135		
02/10/2018	9.13	22.47	4.93	0.09	0.079	0.586	7,595		33.0	9.5	7.51	90	270	6,853	20,559		7.37	5.0	136		60	10,356	4,569		
02/11/2018	20.56	36.47	9.76	0.32	0.358	6.651			34.0	7.8	7.51	102	172	17,490	29,493		7.47	1.4	115	77	78	19,719	13,375		
02/12/2018	13.72	17.10	8.66	0.00	0.092	1.810			37.0	7.9	7.43	138	186	15,791	21,283		7.56	1.0	80	57	78	9,154	8,925		
02/13/2018	11.03	14.67	7.86	0.00	0.076	0.000	31,483		20.0	8.9	7.60	164	224	15,086	20,606		7.68	1.2	102	85	101	9,383	9,291		
02/14/2018	10.50	13.31	7.12	0.00	0.077	0.000	10,120		27.0	8.8	7.65	237	258	20,754	22,593		7.64	1.2	108	81	149	9,458	13,048		
02/15/2018	10.24	13.24	7.45	0.00	0.089	0.000	24,333		32.0	8.8	7.60	198	250	16,910	21,350		7.53	1.4	128	98	126	10,931	10,761		
02/16/2018	10.09	13.59	6.64	0.00	0.089	0.000	12,657		41.0	9.2	7.56	189	254	15,904	21,374		7.61	3.5	106	78	116	8,920	9,761		
02/17/2018	9.17	12.69	6.57		0.099	0.000	2,451		24.0	9.8	7.52	188	148	14,378	11,319		7.52	4.0	107	78	96	8,183	7,342		
02/18/2018	9.25	12.56	6.70	0.00	0.072	0.000			31.0	9.8	7.50	177	208	13,655	16,046		7.62	4.0	112	90	99	8,640	7,637		
02/19/2018	9.86	13.86	7.78	0.06	0.086	0.000	11,853		17.0	9.3	7.31	230	296	18,913	24,341		7.45	2.5	125	102	123	10,279	10,115		
02/20/2018	11.90	13.82	7.93	0.00	0.085	0.896	8,382		43.0	9.4	7.37	203	290	20,147	28,781		7.53	0.9	98	89	108	9,726	10,719		
02/21/2018	11.82	13.80	8.32	0.00	0.083	1.011	4,148		57.0	9.3	7.59	185	264	18,237	26,025		7.72	0.5	94	78	116	9,266	11,435		
02/22/2018	10.89	13.37	8.00	0.07	0.086	1.089	13,449		35.0	9.3	7.54	216	306	19,618	27,792		7.70	1.3	94	69	105	8,537	9,536		
02/23/2018	10.81	15.83	7.99	0.00	0.086	1.881	1,029		25.0	9.3	6.68	228	604	20,555	54,454		7.25	2.0	84	63	117	7,573	10,548		
02/24/2018	10.95	13.42	7.59	0.02	0.083	0.730			41.0	8.8	7.37	225	252	20,548	23,013		7.60	1.0	91	61	87	8,310	7,945		
02/25/2018	13.03	22.45	9.11	0.49	0.074	5.095			33.0	9.3	7.46	135	220	14,670	23,907		7.59	0.4	91	67	93	9,889	10,106		
02/26/2018	12.68	15.44	8.75	0.00	0.094	2.582			38.0	9.2	7.73	194	226	20,516	23,900		7.77	0.9	98	67	137	10,364	14,488		
02/27/2018	11.50	13.66	7.88	0.00	0.076	1.610			31.0	9.1	7.50	206	202	19,757	19,374		7.78	1.4	84	63	158	8,056	15,154		
02/28/2018	11.06	13.66	7.59	0.00	0.087	0.259	20,510		37.0	9.0	7.48	165	314	15,220	28,963		7.70	2.0	108	77	96	9,962	8,855		
MMAVG	8.51																								
Min.	7.1	10.3	4.6	0.0		0.000	921		10.0	7.8	6.68	90	148	6,853	11,319		7.25	0.4	80	57	60	7323	4569		
Max.	20.6	36.5	9.8	0.8		6.651	31,483		57.0	10.8	7.73	339	604	21,685	54,454		7.79	5.0	151	107	158	19719	15154		
Total	291.0	425.5	193.3	2.5		25.854	207,713																		
Average	10.4	15.2	6.9	0.1		0.923	11,540		29.43	9.30	7.50	199	285	16827	24172		7.61	2.1	111	82	111	9464	9521		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
02/01/2018	6.93	<0.10	9.2	4.4	8.0	599	521	3	10.0	7.8	3.5	0.00	0.00	0.00	0.00						97.222	97.566	7.72	6.3	9.8	6.6	7.58	13.1	18.8	12.8					
02/02/2018	7.07	<0.10	13.8		6.3	902	412	10	10.1	7.6	3.7	0.00	0.00	0.00	0.00						96.802	95.430	7.48	3.4	11.4		6.98	9.6	23.8						
02/03/2018	6.91	<0.10	12.0		6.4	713	380	5	9.4	8.4	3.9	0.00	0.00	0.00	0.00						96.768	95.862	7.48	3.5	11.8		6.94	9.0	23.6						
02/04/2018	6.82	<0.10	42.8	27.4	23.7	2,984	1,652	1	9.7	8.1	3.5	0.00	0.00	0.00	0.00						86.685	85.139	7.68	4.1	8.4	4.6	7.14	6.0	19.4	13.6					
02/05/2018	6.78	0.10	12.0	7.8	8.4	1,058	740	16	9.5	8.1	5.8	0.00	0.00	0.00	0.00	0.32	28	0.14	12	0.14	96.500	96.226	7.66	3.9	10.4	7.0	7.19	7.2	19.4	14.0					
02/06/2018	6.92	0.10	13.2	9.4	7.4	844	473	16	9.3	8.6	4.8	0.00	0.00	0.00	0.00						97.817	97.528	7.76	4.9	13.2	8.2	7.29	7.7	19.8	14.2					
02/07/2018	6.99	<0.10	9.4	6.2	6.9	627	460	2	9.5	8.7	3.6	0.00	0.00	0.00	0.00						96.892	96.948	7.76	4.6	9.6	6.0	7.34	8.1	20.2	15.4					
02/08/2018	7.01	<0.10	10.0	6.0	7.9	678	536	12	9.2	8.7	3.8	0.00	0.00	0.00	0.00						96.624	97.059	7.61	4.0	10.2	6.4	7.30	9.0	16.8	12.0					
02/09/2018	6.75	<0.10	13.8		5.6	844	342	18	9.2	8.8	4.0	0.00	0.00	0.00	0.00								7.47	2.1	16.0		6.99	5.7	20.2						
02/10/2018	6.69	0.00	25.4		11.3	1,934	860	0	9.7	8.6	8.3	0.00	0.00	0.00	0.00						87.444	90.593	7.44	3.5	13.8		6.83	6.2	16.2						
02/11/2018	6.53	0.00	70.4	43.0	43.8	12,072	7,510	3	8.7	9.2	5.1	0.00	0.00	0.00	0.00						57.059	59.070	7.65	4.4	11.0	8.4	7.13	7.0	16.8	11.2					
02/12/2018	6.62	<0.10	24.8	19.2	30.6	2,838	3,501	6	7.3	8.4	3.8	0.00	0.00	0.00	0.00	0.63	72	2.95	338	0.25	77.826	86.667	7.64	3.7	9.0	5.6	7.27	4.8	15.8	11.8					
02/13/2018	6.79	<0.10	8.6	5.6	4.8	791	442	17	8.1	8.7	3.6	0.00	0.00	0.00	0.00						97.073	96.161	7.66	3.0	11.8	8.8	7.16	4.6	15.2	11.8					
02/14/2018	6.83	<0.10	9.2	5.6	6.1	806	534	8	9.0	9.1	3.4	520.00	0.00	0.00	173.33						97.426	96.434	7.70	3.6	10.0	7.0	7.20	4.0	13.2	8.4	40.00	<50.00	<0.50	18.00	<0.20
02/15/2018	6.85	<0.10	11.4	7.0	5.6	974	478	20	9.4	8.1	2.8	0.00	0.00	0.00	0.00						97.172	95.440	7.66	3.0	9.4	6.4	7.13	6.4	12.0	8.0					
02/16/2018	6.69	<0.10	7.4	5.4	5.3	623	446	11	9.8	8.3	3.7	0.00	0.00	0.00	0.00						97.196	97.087	7.44	3.7	9.8	6.2	7.78	3.2	8.0	4.2					
02/17/2018	6.80	<0.10	6.2	4.8	4.8	474	367	12	9.5	8.8	2.2	0.00	0.00	0.00	0.00						97.447	95.811	8.20	3.8	10.4	6.6	7.94	6.9	16.4	12.0					
02/18/2018	6.72	<0.10	6.2	4.6	4.3	478	332	7	9.4	8.8	3.2	0.00	0.00	0.00	0.00						97.571	97.019	8.12	3.6	7.0	6.4	7.91	5.5	13.4	9.4					
02/19/2018	6.77	<0.10	9.4	4.8	5.3	773	436	5	9.3	8.9	3.2	0.00	0.00	0.00	0.00	0.18	15	0.18	15	0.05	97.696	96.824	7.63	3.8	8.0	7.0	7.14	4.8	10.8	7.8					
02/20/2018	6.64	<0.10	17.0	13.2	22.2	1,687	2,203	11	9.8	8.7	2.8	0.00	0.00	0.00	0.00						89.064	94.138	7.67	3.8	7.2	3.2	7.20	4.0	7.8	4.0					
02/21/2018	6.74	<0.10	19.0	14.0	27.3	1,873	2,691		10.0	7.5	2.5	0.00	0.00	0.00	0.00						85.243	92.803	7.76	3.5	5.8	4.0	7.22	3.6	8.0	4.4					
02/22/2018	7.16	<0.10	25.2	18.8	28.8	2,289	2,616	140	10.1	7.8	12.6	0.00	0.00	0.00	0.00						86.667	91.765	7.58	3.6	9.8	5.8	7.16	6.5	12.6	8.2					
02/23/2018	6.71	<0.10	26.4	20.4	36.6	2,380	3,300	62	9.5	8.6	4.6	0.00	0.00	0.00	0.00						83.947	95.629	7.50	2.0	8.0	6.8	7.20	2.7	14.2	9.4					
02/24/2018	6.73	<0.10	15.6	11.4	3.2	1,425	292	0	9.6	8.6	4.0	0.00	0.00	0.00	0.00						98.578	93.810	7.43	2.9	10.8	6.0	7.31	19.7	13.6	8.6					
02/25/2018	6.83	0.01	51.6	35.8	55.2	5,607	5,999	11	9.6	8.6	2.2	0.00	0.00	0.00	0.00						59.111	76.545	7.65	3.7	10.0	6.4	7.28	6.3	11.6	6.8					
02/26/2018	6.91	<0.10	35.8	25.0	60.0	3,786	6,345	590	8.9	8.3	9.9	0.00	0.00	0.00	0.00	0.71	75	5.33	564	0.24	69.072	84.159	7.74	2.4	8.0	4.6	7.31	5.2	13.8	9.8					
02/27/2018	7.27	0.10	24.2	16.2	39.0	2,321	3,740	150	9.1	8.3	14.8	0.00	0.00	0.00	0.00						81.068	88.020	7.90	3.4	9.8	6.0	7.39	6.3	15.4	10.6					
02/28/2018	6.93	<0.10	13.4	9.6	11.4	1,236	1,052	32	9.2	8.5	3.6	0.00	0.00	0.00	0.00						93.091	95.732	7.62	4.8	11.2	6.6	7.41	6.2	14.4	8.8					
MMAVG														MMAVG		0.44																			
Min.	6.5	0.00	6	4	3	474	292	0	7.3	7.5	2			0.00	0.00	0.18	15	0.14	12	0.05	57.06	59.07	7.4	2.0	5.8	3.2	6.8	2.7	7.8	4.0	40.0	<50	<0.50	18.0	<0.20
Max.	7.3	0.10	70	43	60	12072	7510	590	10.1	9.2	15			520.00	173.33	0.71	75	5.33	564	0.25	98.58	97.57	8.2	6.3	16.0	8.8	7.9	19.7	23.8	15.4	40.0	<50	<0.50	18.0	<0.20
Total																																			
Average	6.8	<0.09	19	14	17	1915	1738	11	9.4	8.5	5			6.19	6.19	0.46	48	2.15	232	0.17	89.45	92.05	7.7	3.7	10.1	6.3	7.3	6.8	15.4	9.9	40.0	<50	<0.50	18.0	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
02/01/2018		9,590		7,510		14,440		6.99		534,240		66,984						52	6,110	9,770	4,860	7,380	11,700	16,240	8.82	7.86	2,501,280	2,237,760	63,060	100,834	18,843	36,091	4,902	35,928	57	61
02/02/2018		9,560		7,580		14,900		6.42		583,200		66,774						65	6,010	9,080	4,790	7,090	12,440	16,770	6.72	8.25	2,485,440	2,141,280	62,028	93,712	2,867	29,039	4,101	30,615	62	72
02/03/2018		9,390		7,360		13,870		9.70		542,880		65,587						60	6,100	10,010	4,740	7,720	11,460	14,460	9.65	10.00	2,638,080	2,208,960	86,694	103,311	3,384	36,040	4,507	35,994	64	70
02/04/2018		9,390		7,320		14,940		9.34		544,320		65,587						58	6,170	9,860	4,750	7,530	10,670	14,680	9.49	10.00	2,501,280	2,223,360	63,679	101,763					63	68
02/05/2018		9,350		7,240		14,540		10.00		620,640		65,307			5,426	45,213		64	6,130	8,590	4,860	6,670	12,120	15,020	10.00	9.62	2,574,720	2,170,080	63,266	88,655					62	72
02/06/2018		9,560		7,490		14,460		10.00		501,120		66,774						53	5,500	9,250	5,020	7,220	11,430	15,710	10.00	9.57	2,579,040	2,187,360	56,764	95,467			5,756	44,922	73	76
02/07/2018		9,250		7,260		15,090		9.89		504,000		64,609			5,427	44,985		58	6,190	9,690	4,910	7,590	12,510	16,170	10.00	9.63	2,607,840	2,164,320	63,885	100,008			6,212	44,981	65	67
02/08/2018		8,750		6,810		15,030		9.97		511,200		61,117						56	6,390	8,790	5,090	6,890	11,760	16,380	10.00	9.70	2,541,600	2,178,720	65,950	90,719	3,394	33,320	4,176	31,854	63	69
02/09/2018		9,300		7,360		14,810		10.00		563,040		64,958			5,425	44,903		62	6,480	9,370	5,230	7,680	11,600	15,110	10.00	9.79	2,534,400	2,193,120	66,878	96,705			5,719	44,876	62	75
02/10/2018		8,810		6,890		14,540		10.00		3,654,720		61,536						53	6,810	9,460	5,370	7,320	11,560	15,340	9.42	8.91	2,561,760	2,242,080	70,284	97,634			4,567	35,969	59	63
02/11/2018		8,180		6,440		14,320		10.00		3,657,600		57,135						55	5,730	7,040	4,550	5,470	12,990	16,250	10.00	10.00	2,554,560	2,116,800	59,138	72,658			4,743	36,005	63	60
02/12/2018		7,870		6,290		14,300		10.00		465,120		54,970			1,560	13,065		62	4,870	5,900	3,950	4,780	13,350	17,180	10.00	10.00	2,573,280	2,122,560	50,262	60,892			6,163	44,212	68	61
02/13/2018		7,840		6,190		15,070		10.00		491,040		54,760						64	5,610	7,270	4,430	5,600	12,810	16,150	10.00	10.00	2,563,200	2,160,000	57,899	75,032			5,877	45,029	75	83
02/14/2018		8,050		6,340		13,890		10.00		552,960		56,227			5,592	45,184		56	6,000	8,020	4,680	6,220	12,810	15,290	10.00	10.00	2,448,000	2,207,520	61,925	82,772					67	66
02/15/2018		8,860		7,570		14,340		10.00		504,000		61,885						56	6,110	7,880	4,780	5,610	13,350	16,250	9.31	8.73	2,535,840	2,328,480	63,060	81,328	4,959	44,574	5,890	44,787	67	70
02/16/2018		9,110		7,210		15,560		10.00		518,400		63,631						66	5,960	8,510	4,770	6,700	13,400	17,510	9.01	8.56	2,495,520	2,232,000	61,512	87,830	5,346	38,817	6,101	41,967	76	82
02/17/2018		9,150		7,300		14,570		9.90		498,240		63,910						63	5,840	8,180	4,830	6,680	12,410	15,880	10.00	9.60	2,532,960	2,129,760	60,273	84,424	4,522	44,992	5,957	44,979	77	89
02/18/2018		9,000		7,180		14,490		9.80		488,160		62,863						59	5,740	7,980	4,640	6,270	10,810	15,960	10.00	9.60	2,515,680	2,118,240	59,241	82,360	4,061	45,047	6,083	45,699	70	78
02/19/2018		8,760		6,950		14,960		10.00		476,640		61,186			5,572	46,105		57	5,340	8,290	4,360	6,490	10,840	15,290	9.72	10.00	2,609,280	2,183,040	55,113	85,559					69	72
02/20/2018		8,940		7,160		14,860		10.00		518,400		62,444						62	5,240	7,620	4,160	5,990	11,960	15,370	10.00	9.73	2,550,240	2,187,360	54,081	78,644	4,618	45,221	5,800	45,042	69	76
02/21/2018		9,340		7,430		14,910		10.00		581,760		65,238			4,942	39,826		64	5,470	7,330	4,410	5,820	11,290	16,140	9.76	9.79	2,558,880	2,149,920	56,455	75,651			6,330	44,990	70	76
02/22/2018		9,080		7,050		14,520		10.00		540,000		63,422						60	5,150	8,090	4,130	6,400	9,880	15,670	10.00	10.00	2,563,200	2,160,000	53,152	83,495			15,350	116,449	70	80
02/23/2018		9,070		7,030		13,930		10.00		720,000		63,352						66	5,490	7,200	4,340	5,600	10,650	15,000	10.00	10.00	2,486,880	2,129,760	56,661	74,309					73	83
02/24/2018		9,360		7,440		13,870		9.39		864,000		65,377						52	5,410	7,360	4,300	5,770	10,490	15,350	9.45	10.00	2,576,160	2,240,640	55,835	75,961	3,170	36,231	4,723	36,893	65	68
02/25/2018		9,290		7,430		14,260		9.82		864,000		64,888						58	5,150	6,920	4,180	5,560	9,720	15,740	9.86	10.00	2,520,000	1,998,720	53,152	71,420	3,031	35,963	4,690	36,179	72	77
02/26/2018		9,060		7,230		14,030		9.90		1,548,000		63,282			5,321	45,473		57	5,330	9,400	4,290	8,090	8,000	14,160	10.00	10.00	2,491,200	2,164,320	55,010	97,015					71	67
02/27/2018		8,380		6,450		13,510		10.00		720,000		58,532						54	5,200	7,780	4,230	6,280	9,630	14,250	10.00	10.00	2,499,840	2,145,600	53,668	80,295			6,587	49,149	69	71
02/28/2018		8,370		6,570		13,890		10.00		864,000		58,462						67	4,900	6,650	3,950	5,280	9,820	14,870	10.00	10.00	2,479,680	2,046,240	50,572	68,633			4,808	38,576	82	87
MMAVG																																				
Min.		7,840		6,190		13,510		6		465,120		54,760			1,560	13,065		52	4,870	5,900	3,950	4,780	8,000	14,160	7	8	2,448,000	1,998,720	50,262	60,892	2,867	29,039	4,101	30,615	57	60
Max.		9,590		7,580		15,560		10		3,657,600		66,984			5,592	46,105		67	6,810	10,010	5,370	8,090	13,400	17,510	10	10	2,638,080	2,328,480	70,284	103,311	18,843	45,221	15,350	116,449	82	89
Total										23,431,680		1,750,797			39,265	324,754											71,079,840	60,768,000	1,655,760	2,387,086	58,195	425,335	129,042	975,095		
Average		8,952		7,074		14,496		10		836,846		62,528			4,908	40,594		59	5,730	8,260	4,593	6,489	11,481	15,650	10	10	2,538,566	2,170,286	59,134	85,253	5,290	38,667	5,866	44,323	68	73

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
03/01/2018	10.68	15.02	6.98	0.51	0.088	0.446	33,743		40.0	9.3	7.51	228	376	20,308	33,491		7.67	3.0	134	103	170	11,936	15,142		
03/02/2018	18.54	33.05	11.51	1.55	0.098	8.380			36.0	9.8	7.50	90	132	13,916	20,410		7.61	2.0	58	47	39	8,968	6,030		
03/03/2018	16.82	19.80	11.68	0.00	0.073	2.952			34.0	8.7	7.55	102	172	14,308	24,128		7.60	1.5	76	45	69	10,661	9,679		
03/04/2018	14.46	18.72	10.71	0.30	0.088	3.365			37.0	9.2	7.69	117	178	14,110	21,466		7.80	0.5	72	50	75	8,683	9,045		
03/05/2018	13.32	16.39	9.02	0.00	0.086	3.172			30.0	9.8	7.68	141	176	15,664	19,552		7.70	0.7	94	76	102	10,442	11,331		
03/06/2018	11.94	14.62	9.08	0.00	0.085	0.048	30,658		27.0	8.5	7.60	161	206	16,032	20,513		7.68	2.0	108	86	117	10,755	11,651		
03/07/2018	11.35	14.57	8.80	0.73	0.174	0.000			29.0	8.3	7.77	221	200	20,920	18,932		7.84	3.0	124	88	144	11,738	13,631		
03/08/2018	11.26	14.36	8.43	0.04	0.179	0.000			31.0	8.8	7.36	174	208	16,340	19,533		7.55	3.0	100	82	105	9,391	9,860		
03/09/2018	10.54	14.04	8.22	0.00	0.541	0.000	15,542		28.0	8.2	7.26	191	286	16,790	25,140		7.40	2.5	112		117	9,845	10,285		
03/10/2018	9.99	13.85	7.76	0.00	0.602	0.000	1,053		36.0	9.3	7.23	165	202	13,747	16,830		7.42	3.5	102		105	8,498	8,748		
03/11/2018	10.30	14.23	7.84	0.00	0.600	0.000	14,190		33.0	9.1	7.40	165	210	14,174	18,039		7.60	3.0	101	88	99	8,676	8,504		
03/12/2018	9.87	13.36	0.00	0.21	0.259	0.000	25,084		22.0	10.0	7.59	192	290	15,805	23,872		7.76	3.0	118	93	126	9,713	10,372		
03/13/2018	10.11	13.77	7.47	1.00	0.149	0.000			30.0	9.6	7.57	144	190	12,142	16,020		7.69	4.0	101	83	108	8,516	9,106		
03/14/2018	10.30	13.59	7.79	0.05	0.147	0.000			23.0	9.8	7.36	174	200	14,947	17,180		7.64	3.0	96	86	143	8,247	12,284		
03/15/2018	10.31	13.69	7.90	0.00	0.165	0.000	15,259		27.0	9.2	7.50	258	356	22,184	30,611		7.72	3.5	123	92	120	10,576	10,318		
03/16/2018	11.25	15.75	9.11	0.00	0.149	1.340	9,312		25.0	9.5	7.32	84	438	7,881	41,095		7.39	30.0	802		78	75,248	7,318		
03/17/2018	10.11	14.90	7.74	0.00	0.164	0.591			26.0	9.9	7.26	111	236	9,359	19,899		7.53	80.0	770		69	64,924	5,818		
03/18/2018	8.70	12.28	7.73	0.00	0.147	0.000	4,540		12.0	9.5	7.45	198	212	14,366	15,382		7.58	5.5	161	128	176	11,682	12,770		
03/19/2018	10.87	15.54	8.45	0.00	0.169	0.408	10,765		21.0	9.6	7.46	272	374	24,658	33,905		7.48	70.0	1028	808	360	93,194	32,636		
03/20/2018	9.44	12.83	0.00	0.00	0.512	0.005	16,510		18.0	9.5	7.34	246	278	19,367	21,887		7.55	33.0	530	436	308	41,727	24,249		
03/21/2018	9.31	14.13	6.62	0.10	0.328	0.000	8,132		22.0	10.0	7.35	258	280	20,033	21,741		7.45	15.0	336	278	246	26,089	19,101		
03/22/2018	9.76	13.89	7.46	0.10	0.182	0.000	2,706		31.0	9.9	7.23	276	362	22,466	29,466		7.44	11.0	260	218	333	21,164	27,106		
03/23/2018	9.70	11.88	0.00	0.00	0.164	0.000	18,950		31.0	9.6	7.27	186	216	15,047	17,474		7.35	25.0	473	375	276	38,265	22,328		
03/24/2018	9.83	12.28	7.92	0.00	0.248	0.000	6,195		38.0	9.1	7.29	189	166	15,495	13,609		7.42	15.0	245	199	186	20,086	15,249		
03/25/2018	9.87	13.68	7.93	0.00	0.104	0.482	3,007		35.0	9.1	7.22	182	234	14,981	19,262		7.36	17.0	318	250	207	26,176	17,039		
03/26/2018	9.89	13.32	7.21	0.00	0.144	0.732	11,089		29.0	9.2	7.35	182	230	15,012	18,971		7.50	11.0	240	194	191	19,796	15,754		
03/27/2018	10.18	16.50	7.64	0.00	0.098	2.080	12,399		29.0	9.6	7.21	204	234	17,320	19,867		7.32	35.0	520	424	306	44,149	25,980		
03/28/2018	10.14	15.79	2.95	0.00	0.162	2.668	15,519		38.0	9.9	7.24	360	210	30,444	17,759		7.33	32.0	475	383	353	40,170	29,852		
03/29/2018	10.22	15.70	7.78	0.05	0.178	0.000	27,131		55.0	9.7	7.17	292	210	24,889	17,899		7.47	12.0	222	184	269	18,922	22,928		
03/30/2018	11.28	17.29	9.21	0.00	0.237	0.000	10,361		60.0	10.4	7.22	87	192	8,185	18,062		7.51	1.0	163	125	162	15,334	15,240		
03/31/2018	10.31	16.10	9.40	0.00	0.074	2.773	10,137		50.0	9.6	6.90	96	202	8,255	17,369		7.21	101.0	121	97	81	10,404	6,965		
MMAVG	8.70																								
Min.	8.7	11.9	0.0	0.0		0.000	1,053		12.0	8.2	6.90	84	132	7,881	13,609		7.21	0.5	58	45	39	8247	5818		
Max.	18.5	33.1	11.7	1.6		8.380	33,743		60.0	10.4	7.77	360	438	30,444	41,095		7.84	101.0	1028	808	360	93194	32636		
Total	340.7	474.9	230.3	4.6		29.442	302,282																		
Average	11.0	15.3	7.4	0.1		0.950	13,740		31.71	9.41	7.38	185	241	16424	21592		7.53	17.2	264	190	169	23031	14720		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
03/01/2018	6.83	0.00	12.4	7.8	7.5	1,104	668	0	9.8	8.4	2.7	0.00	0.00	0.00	0.00						96.711	96.702	7.55	2.4	6.0	6.0	7.04	7.6	16.2	7.6					
03/02/2018	6.93	<0.10	54.8	34.4	37.8	8,473	5,845	224	9.8	6.7	10.7	0.00	0.00	0.00	0.00						58.000	58.485	7.52	4.8	7.2	7.2	7.00	6.5	15.8	13.2					
03/03/2018	6.69	0.75	25.8	17.0	32.4	3,619	4,545	2100	8.4	9.1	15.2	0.00	0.00	0.00	0.00						68.235	85.000	7.53	2.0	11.0	7.4	7.14	4.2	14.2	8.8					
03/04/2018	7.08	<0.10	23.4	16.2	33.9	2,822	4,088	122	8.8	8.7	6.4	0.00	0.00	0.00	0.00						71.026	86.854	7.69	2.3	8.6	5.8	7.40	3.5	10.6	6.4					
03/05/2018	6.99	<0.10	37.4	27.2	50.4	4,155	5,599	580	8.9	8.5	18.5	0.00	0.00	0.00	0.00	0.75	83	4.47	497	0.28	64.255	78.750	7.81	3.2	9.2	7.4	7.52	5.9	13.8	9.8					
03/06/2018	7.18	0.10	10.0	5.6	5.8	996	578	600	9.1	8.5	12.9	0.00	0.00	0.00	0.00						96.398	95.146	7.75	2.6	6.8	5.4	7.20	5.3	16.8	11.6					
03/07/2018	6.84	<0.10	10.6	7.4	5.9	1,003	558	3	9.7	8.3	3.1	0.00	0.00	0.00	0.00						97.330	94.700	7.75	3.5	10.0	6.4	7.36	6.6	17.2	12.4					
03/08/2018	6.96	<0.10	6.8	3.8	6.6	639	620	25	9.2	8.8	6.0	0.00	0.00	0.00	0.00						96.207	96.731	7.70	5.3	10.6	7.2	7.23	7.4	12.8	8.6	33.00	52.00	<0.20	22.00	<0.20
03/09/2018	6.72	<0.10	12.0		5.5	1,055	483	12	9.6	8.1	3.5	0.00	0.00	0.00	0.00						97.120	95.804	7.46	3.0	12.8		6.87	4.7	14.0						
03/10/2018	6.84	<0.10	11.6		4.8	966	400	12	9.6	8.8	2.7	0.00	0.00	0.00	0.00						97.091	94.257	6.84	5.7	10.8		7.42	3.1	11.8						
03/11/2018	6.69	<0.10	8.8	5.2	4.7	756	404	9	9.5	8.7	3.6	0.00	0.00	0.00	0.00						97.152	95.810	7.51	3.4	10.0	6.6	6.97	5.5	11.2	9.2					
03/12/2018	6.73	<0.10	9.4	4.8	5.4	774	445	10	9.6	8.8	3.8	0.00	0.00	0.00	0.00	0.16	13	0.18	15	0.11	97.188	96.759	7.41	4.8	13.6	8.6	7.09	5.7	12.2	8.6					
03/13/2018	6.81	<0.10	8.4	6.2	5.9	708	497	7	9.5	8.3	3.7	0.00	0.00	0.00	0.00						95.903	95.579	7.71	2.9	10.4	7.4	7.19	8.1	17.0	13.0					
03/14/2018	6.89	<0.10	11.4	7.6	6.5	979	558	0	9.0	8.5	4.6	0.00	0.00	0.00	0.00						96.264	94.300	7.58	10.2	14.2	10.2	7.18	6.3	11.0	7.6					
03/15/2018	6.79	0.10	14.8	7.4	7.8	1,273	671	2	9.4	8.4	4.8	0.00	0.00	0.00	0.00						96.977	95.843	7.54	17.4	17.2	9.8	7.15	9.4	17.2	11.4					
03/16/2018	6.71	0.10	192.7		40.8	18,080	3,828	11	9.6	8.0	4.8	0.00	0.00	0.00	0.00						51.429	56.005	7.14	9.3	12.6		7.03	42.0	39.0						
03/17/2018	6.65	7.50	203.8		42.0	17,184	3,541	1	9.3	4.8	24.4	0.00	0.00	0.00	0.00						62.162	13.644	7.09	4.4	11.2		6.99	41.4	86.4						
03/18/2018	6.61	0.00	9.4	7.2	18.8	682	1,364	21	9.3	8.1	19.4	0.00	0.00	0.00	0.00						90.505	95.566	7.37	4.0	9.0	7.2	7.28	34.8	18.0	13.6					
03/19/2018	6.63	<0.10	63.4	47.8	50.4	5,748	4,569		9.3	6.7	4.9	0.00	0.00	0.00	0.00	1.09	99	8.03	728	0.12	81.471	83.048	7.54	6.7	9.4	6.4	7.55	78.0	76.8	60.4					
03/20/2018	6.87	0.10	10.0	8.0	20.4	787	1,606	75	9.6	7.8	5.1	0.00	0.00	0.00	0.00						91.707	96.403	7.43	4.2	7.2	5.8	7.44	39.0	22.0	17.4					
03/21/2018	6.80	<0.10	10.4	7.8	23.4	808	1,817	27	9.7	7.8	4.3	0.00	0.00	0.00	0.00						90.930	96.286	7.39	5.3	6.4	4.8	7.41	40.2	17.6	14.8					
03/22/2018	6.87	<0.10	18.8	13.6	24.5	1,530	1,994	160	9.9	8.4	4.7	0.00	0.00	0.00	0.00						91.123	94.807	7.42	5.7	8.4	6.8	7.36	45.6	30.4	23.8					
03/23/2018	6.72	<0.10	15.0	12.2	31.8	1,213	2,573	440	10.0	7.4	4.9	0.00	0.00	0.00	0.00						82.903	93.056	7.97	3.1	7.8	4.2	8.05	43.8	31.0	24.0					
03/24/2018	6.81	<0.10	35.6	29.4	37.8	2,919	3,099	100	10.1	7.3	5.9	0.00	0.00	0.00	0.00						80.000	78.554	8.09	2.4	6.0	4.4	8.01	43.2	66.8	52.8					
03/25/2018	6.80	<0.10	85.0	68.0	74.4	6,997	6,124	30	9.8	7.6	6.4	0.00	0.00	0.00	0.00						59.121	63.675	7.43	3.1	7.6	5.2	7.26	50.9	108.0	94.0					
03/26/2018	6.78	<0.10	54.6	42.8	50.1	4,504	4,132	250	9.6	7.5	7.5	0.00	0.00	0.00	0.00	0.77	64	7.63	629	0.15	72.473	76.261	7.44	2.4	8.6	6.8	7.40	67.2	72.6	58.2					
03/27/2018	6.90	<0.10	160.0	127.0	85.2	13,584	7,234	127	9.9	7.4	6.2	0.00	0.00	0.00	0.00						58.235	31.624	7.33	15.6	31.4	26.0	7.22	73.2	58.2	50.4					
03/28/2018	6.59	0.10	199.0	151.0	67.2	16,829	5,683	70	10.2	7.8	6.8	0.00	0.00	0.00	0.00						81.333	5.238	7.06	87.6	348.0	264.0	7.03	36.0	22.4	17.6					
03/29/2018	6.50	17.00	28.0	22.4	34.8	2,387	2,966		10.0	7.6	77.6	0.00	0.00	0.00	0.00						88.082	86.667	7.32	9.5	14.0	11.0	7.21	26.3	24.0	19.8					
03/30/2018	6.73	<0.10	45.0	36.4	36.6	4,233	3,443	2867	10.5	6.6	5.3	0.00	0.00	0.00	0.00						57.931	76.563	7.25	2.0	7.6	5.2	7.21	49.2	56.2	45.6					
03/31/2018	6.93	0.10	81.4	64.6	46.2	6,999	3,973	1783	10.1	6.8	6.8	0.00	0.00	0.00	0.00						51.875	59.703	7.25	2.0	8.4	5.0	7.29	45.6	117.8	95.8					
MMAVG																MMAVG		0.45																	
Min.	6.5	0.00	7	4	5	639	400	0	8.4	4.8	3			0.00	0.00	0.16	13	0.18	15	0.11	51.43	5.24	6.8	2.0	6.0	4.2	6.9	3.1	10.6	6.4	33.0	52	<0.20	22.0	<0.20
Max.	7.2	17.00	204	151	85	18080	7234	2867	10.5	9.1	78			0.00	0.00	1.09	99	8.03	728	0.28	97.33	96.76	8.1	87.6	348.0	264.0	8.1	78.0	117.8	95.8	33.0	52	<0.20	22.0	<0.20
Total																																			
Average	6.8	<0.90	47	29	29	4316	2707	43	9.6	7.9	10			0.00	0.00	0.69	65	5.08	467	0.17	81.20	79.61	7.5	7.8	21.4	17.0	7.3	27.3	34.2	26.5	33.0	52	<0.20	22.0	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
03/01/2018		8,680		6,980		13,740		10.00		864,000		60,628			5,062	40,139		52	5,090	6,330	4,180	5,020	10,130	7,880	9.55	10.00	2,558,880	2,132,640	52,533	65,330					71	70
03/02/2018		8,870		7,120		14,230		10.00		1,441,440		61,955						63	6,500	5,510	5,250	4,520	14,690	12,620	8.70	9.74	2,534,400	2,145,600	67,085	56,867	4,974	40,598	4,524	39,960	92	73
03/03/2018		11,640		9,780		13,730		10.00		1,440,000		81,302						47	6,490	6,790	5,110	5,690	13,270	9,500	10.00	10.00	2,476,800	2,534,400	86,694	70,078	4,283	36,137	3,883	35,964	85	60
03/04/2018		8,770		6,520		14,200		10.00		1,440,000		61,256						58	5,070	6,010	4,100	4,850	13,340	13,010	10.00	10.00	2,448,000	2,232,000	52,326	62,028	4,073	36,085	3,959	36,129	93	57
03/05/2018		9,180		7,300		14,300		10.00		2,867,040		64,120			4,795	40,488		60	7,370	6,090	5,780	4,760	12,610	10,970	10.00	10.00	2,589,120	2,257,920	76,064	62,853					86	77
03/06/2018		8,790		6,720		14,090		10.00		3,499,200		61,396						58	7,300	6,310	5,750	4,980	13,100	11,520	10.00	10.00	2,390,400	2,257,920	75,341	65,124	4,168	40,504	3,744	40,480	81	78
03/07/2018		8,730		7,490		14,220		10.00		3,499,200		60,977			4,475	40,587		57	5,890	5,320	4,710	4,220	13,550	12,730	9.98	10.00	2,481,120	2,113,920	60,789	54,906					76	75
03/08/2018		8,430		6,660		13,470		10.00		3,340,800		58,881						58	6,400	5,830	5,070	4,630	13,730	14,460	9.81	10.00	2,213,280	2,210,400	66,053	60,170	4,556	40,494	4,712	40,547	70	72
03/09/2018		8,410		7,920		14,490		10.00	0	3,319,200		58,742			4,855	40,750		56	6,040	5,460	4,810	4,340	13,230	13,540	9.69	10.00	2,566,080	2,136,960	62,337	56,351					71	75
03/10/2018		8,010		6,400		13,290		10.00		1,820,160		55,948						72	5,880	5,630	4,710	4,560	12,790	13,760	9.43	10.00	2,458,080	2,152,800	60,686	58,106	3,960	36,218	3,885	34,631	94	98
03/11/2018		8,400		6,630		13,300		10.00		1,936,800		58,672						64	6,170	6,120	4,860	4,920	12,380	13,470	9.47	10.00	2,498,400	2,088,000	63,679	63,163	3,771	35,929	4,089	36,014	91	93
03/12/2018		7,930		6,480		14,400		10.00		1,872,000		55,389			4,662	40,359		63	6,090	5,400	4,970	4,490	12,900	13,320	10.00	9.63	2,448,000	2,131,200	62,853	55,732					81	85
03/13/2018	5,750	4,330	4,510	3,490		4,800		10.00		2,381,760	40,162	30,244					52	51	6,230	5,910	4,670	5,320	12,840	13,530	9.36	10.00	2,426,400	2,083,680	64,298	60,996					80	91
03/14/2018	2,010	970	1,530	740		1,000		10.00		1,440,000	14,039	6,775					55	52	6,150	6,160	4,850	4,940	12,990	13,250	9.24	10.00	2,304,000	2,160,000	63,473	63,576	4,376	40,630	6,016	53,875	88	93
03/15/2018	5,510	5,230	4,430	4,260	9,300	11,110	3.11	10.00	2,232,000	2,016,000	38,486	36,530					60	59	6,510	6,550	5,330	5,400	11,790	12,300	10.00	9.24	2,522,880	2,111,040	67,188	67,601	4,095	39,514	4,395	40,504	83	95
03/16/2018	4,740	5,120	4,070	4,220	9,830	11,810	4.38	6.43	1,519,200	2,099,520	33,108	35,762					63	59	6,970	7,200	5,710	5,850	11,380	12,700	10.00	9.43	2,479,680	2,134,080	71,936	74,309			8,746	81,038	80	89
03/17/2018	5,550	5,580	4,470	4,510	10,020	11,500	4.17	7.02	2,999,520	705,600	38,765	38,975			3,931	40,652	70	72		5,900		4,690		10,540	10.00	10.00		2,099,520		60,892						110
03/18/2018	6,140	6,320	4,800	4,960	8,920	12,770	4.64	8.78	2,731,680	593,280	42,886	44,144					65	60		4,330		3,650		11,390		8.06		2,118,240		44,689						116
03/19/2018	6,210	6,250	4,970	4,940	9,710	12,290	4.12	8.38	1,608,480	800,640	43,375	43,655					74	74		3,070		2,450		5,800		10.00		2,128,320		31,685				5,808	81,029		72
03/20/2018	6,670	6,850	5,580	5,600	15,060	13,590	3.83	9.07	1,920,960	599,040	46,588	47,846			7,539	80,927	105	102		4,450		3,820		11,310		7.67		2,053,440		45,927						90
03/21/2018	6,880	6,890	5,580	5,600	15,130	14,230	3.50	8.39	1,987,200	1,800,000	48,055	48,125	5,814	50,041	5,909	53,393	73	80		4,500		3,700		12,010		7.74		2,157,120		46,443						78
03/22/2018	6,580	6,980	6,570	5,620	14,190	12,760	3.48	8.39	1,480,320	1,666,080	45,960	48,754	6,350	54,381	5,737	53,977	84	77		1,610		1,290		2,760		7.74		2,077,920		16,616						68
03/23/2018	7,580	7,570	6,160	6,130	10,580	12,500	3.70	9.35	1,008,000	587,520	52,944	52,875					63	70		3,920		3,360		11,200		6.98		2,135,520		40,457			4,918	53,220		69
03/24/2018	7,710	7,860	6,350	6,530	11,130	11,970	6.60	8.90	1,008,000	570,240	53,852	54,900					78	80		3,980		3,400		11,390		6.40		2,149,920		41,077						75
03/25/2018	8,070	8,130	6,530	6,680	11,380	12,360	7.10	9.20	1,088,640	571,680	56,367	56,786			5,578	54,114	94	95		3,890		3,330		11,390		7.70		2,197,440		40,148						98
03/26/2018	7,380	7,800	5,950	6,300	10,170	11,210	7.66	9.39	1,317,600	604,800	51,547	54,481	4,881	54,315	5,308	54,008	87	83		3,790		3,230		12,400		7.70		2,144,160		39,116						87
03/27/2018	7,350	7,640	5,990	6,030	10,490	11,940	7.86	10.00	1,368,000	648,000	51,338	53,363	4,850	54,147	5,389	54,053	87	85		3,910		3,270		11,150		7.70		2,232,000		40,354						92
03/28/2018	5,750	6,170	4,830	4,980	12,280	11,570	3.59	6.32	2,206,080	2,469,600	40,162	43,096			6,833	67,658	94	91		3,580		2,960		6,990		9.14		2,138,400		36,948						92
03/29/2018	6,890	7,170	5,620	5,740	9,820	12,340	2.81	6.98	3,735,360	2,502,720	48,125	50,081	5,011	54,374	5,477	54,935	102	102		2,120		1,750		6,260		10.00		2,448,000		21,880						94
03/30/2018	8,480	8,400	6,710	6,630	11,030	10,530	5.71	7.88	2,414,880	2,645,280	59,231	58,672	5,040	53,736	1,241	14,131	94	100		2,630		2,150		9,590		8.10		2,592,000		27,144						80
03/31/2018	8,090	8,290			10,750	9,880	6.68	8.33	2,471,040	2,740,320	56,507	57,904					87	88		2,140				9,200		9.75		2,606,400		22,086						79
MMAVG																																				
Min.	2,010	970	1,530	740	8,920	1,000	3	6	0	570,240	14,039	6,775	4,850	50,041	1,241	14,131	52	47	5,070	1,610	4,100	1,290	10,130	2,760	9	6	2,213,280	2,053,440	52,326	16,616	3,771	35,929	3,744	34,631	70	57
Max.	8,480	11,640	6,710	9,780	15,130	14,490	8	10	3,735,360	3,499,200	59,231	81,302	6,350	54,381	7,539	80,927	105	102	7,370	7,200	5,780	5,850	14,690	14,460	10	10	2,589,120	2,606,400	76,064	74,309	4,974	40,630	8,746	81,038	94	116
Total									33,096,960	54,781,920	861,497	1,602,234	31,946	320,994	76,791	730,171											39,395,520	68,160,960	1,033,623	1,552,652	38,256	346,109	58,679	573,391		
Average	6,492	7,400	5,258	5,965	11,164	12,181	5	9	1,838,720	1,767,159	45,342	51,685	5,324	53,499	5,119	48,678	78	71	6,259	4,853	4,991	4,051	12,795	11,030	10	9	2,462,220	2,198,741	64,601	50,086	4,251	38,457	4,890	47,783	83	83

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
04/01/2018	10.86	17.08	7.27	0.00	0.068	2.245			53.0	9.5	7.22	228	220	20,651	19,926		7.44	1.1	96	72	159	8,695	14,401		
04/02/2018	9.91	14.79	7.17	0.10	0.059	1.713	23,813		30.0	9.8	7.46	314	262	25,952	21,654		7.72	1.9	123	109	210	10,166	17,356		
04/03/2018	10.95	18.07	7.62	0.51	0.128	2.795	41,677		33.0	10.3	7.41	240	300	21,918	27,397		7.69	3.1	109	73	144	9,954	13,151		
04/04/2018	13.07	22.62	9.84	0.33	0.039	2.142			34.0	9.4	7.20	446	220	48,616	23,981		7.33	2.0	109	77	182	11,881	19,839		
04/05/2018	11.46	16.35	0.00	0.00	0.052	0.000	82,637		40.0	9.4	7.21	186	228	17,777	21,791		7.45	1.6	96	75	134	9,175	12,807		
04/06/2018	11.57	17.19	8.96	0.25	0.066	3.553	25,472		31.0	9.4	7.05	153	274	14,764	26,439		7.23	2.0	119	88	108	11,483	10,421		
04/07/2018	12.42	15.69	8.60	0.10	0.207	3.192			34.0	8.9	7.09	90	188	9,322	19,474		7.34	15.0	280	231	84	29,003	8,701		
04/08/2018	11.55	16.10	7.75	0.00	0.311	2.697	3,521		35.0	9.8	7.38	185	216	17,820	20,807		7.48	11.0	230	199	186	22,155	17,917		
04/09/2018	10.72	15.43	7.27	0.00	0.139	1.874	4,113		30.0	9.9	7.44	209	216	18,686	19,311		7.76	2.2	87	72	132	7,778	11,801		
04/10/2018	10.22	16.26	6.75	0.02	0.038	1.202	29,019		32.0	10.1	7.48	236	272	20,115	23,184		7.61	20.0	175	147	276	14,916	23,525		
04/11/2018	10.38	15.67	7.26	0.00	0.136	0.000	43,053		31.0	10.3	7.21	374	524	32,377	45,362		7.36	8.0	221	179	209	19,132	18,093		
04/12/2018	10.40	16.91	6.50	0.12	0.156	0.000	84,503		59.0	10.4	7.66	303	498	26,281	43,195		7.72	9.0	253	212	216	21,944	18,735		
04/13/2018	10.07	7.20	6.90	0.00	0.239	0.000	53,155		54.0	10.1	7.35	276	342	23,180	28,722		7.30	7.0	216		192	18,141	16,125		
04/14/2018	9.61	13.26	5.68	0.00	0.223	0.000	20,213		55.0	10.5	7.56	212	268	16,991	21,480		7.54	6.0	189		153	15,148	12,263		
04/15/2018	8.81	13.88	5.95	0.00	0.218	0.000	3,313		34.0	10.9	7.54	197	262	14,475	19,251		7.60	3.0	133	106	131	9,772	9,625		
04/16/2018	19.04	37.52	7.11	2.55	0.243	12.869			36.0	10.8	7.54	191	238	30,330	37,793		7.49	1.7	108	77	9	17,150	1,429		
04/17/2018	22.32	26.15	15.98	0.01	0.664	13.200			39.0	8.8	7.74	117	116	21,779	21,593		7.76	8.0	175	135	143	32,576	26,619		
04/18/2018	17.86	19.28	12.81	0.01	0.102	6.211			34.0	9.5	7.49	78	140	11,618	20,853		7.51	0.5	55	47	75	8,192	11,171		
04/19/2018	15.75	20.17	10.55	0.06	0.054	3.227			43.0	9.7	7.79	141	192	18,521	25,220		7.88	0.5	75	50	90	9,852	11,822		
04/20/2018	13.97	17.60	9.26	0.00	0.055	3.230	12,475		35.0	9.6	7.59	72	222	8,389	25,865		7.66	0.5	90		75	10,486	8,738		
04/21/2018	12.92	16.26	8.56	0.00	0.053	1.618	20,202		38.0	9.7	7.49	66	212	7,112	22,844		7.65	0.5	79		72	8,512	7,758		
04/22/2018	12.12	15.84	7.80	0.00	0.066	0.097	5,483		39.0	9.7	7.59	152	172	15,364	17,386		7.73	0.8	65	47	114	6,570	11,523		
04/23/2018	12.39	32.55	7.80	0.00	0.018	0.646	27,232		34.0	10.8	7.64	201	202	20,770	20,873		7.80	9.0	208	160	186	21,493	19,220		
04/24/2018	10.28	14.65	6.87	0.11	0.055	0.000	38,912		39.0	10.2	7.62	216	282	18,519	24,177		7.78	17.0	302	240	216	25,892	18,519		
04/25/2018	14.44	20.19	9.44	0.75	0.149	2.048			48.0	10.2	7.52	189	268	22,761	32,275		7.68	0.5	75	51	111	9,032	13,368		
04/26/2018	13.84	16.21	8.74	0.00	0.213	0.085	38,641		64.0	11.7	7.57	191	200	22,046	23,085		7.71	0.4	72	51	102	8,311	11,773		
04/27/2018	13.49	20.29	8.76	0.03	0.223	0.124	37,293		56.0	10.5	7.44	224	264	25,201	29,702		7.63	1.5	90	70	144	10,126	16,201		
04/28/2018	12.53	14.83	7.85	0.00	0.284	0.000	21,985		52.0	10.4	7.46	126	178	13,167	18,601		7.59	0.8	41	50	81	4,285	8,465		
04/29/2018	12.32	16.94	7.52	0.17	0.127	0.000			55.0	10.8	7.61	135	154	13,871	15,823		7.76	0.5	58	44	87	5,959	8,939		
04/30/2018	12.00	18.92	7.68	0.14	0.197	0.013	52,471		39.0	11.3	7.68	192	262	19,215	26,221		7.82	0.4	84	65	126	8,407	12,610		
MMAVG	8.54																								
Min.	8.8	7.2	0.0	0.0		0.000	3,313		30.0	8.8	7.05	66	116	7,112	15,823		7.23	0.4	41	44	9	4285	1429		
Max.	22.3	37.5	16.0	2.6		13.200	84,503		64.0	11.7	7.79	446	524	48,616	45,362		7.88	20.0	302	240	276	32576	26619		
Total	377.3	543.9	240.3	5.3		64.781	669,183																		
Average	12.6	18.1	8.0	0.2		2.159	31,866		41.20	10.08	7.47	198	246	19920	24810		7.60	4.5	134	105	138	13540	13764		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
04/01/2018	6.94	6.00	25.0	19.8	39.6	2,264	3,587	1045	9.9	7.5	32.0	0.00	0.00	0.00	0.00	0.69	62	8.85	802		82.632	88.636	7.52	2.8	8.0	5.6	7.31	43.8	17.0	11.0					
04/02/2018	6.80	<0.10	42.8	34.2	70.8	3,537	5,852	13	10.2	5.9	6.2	0.00	0.00	0.00	0.00	0.90	74				77.452	83.664					7.58	45.6	15.6	11.8					
04/03/2018	6.82	<0.10	34.8	22.8	45.0	3,178	4,110	7	10.4	7.4	4.1	0.00	0.00	0.00	0.00	0.75	68				81.250	88.400	7.67	4.7	8.8	4.6	7.54	15.3	8.4	3.8					
04/04/2018	7.07	0.30	46.0	33.2	48.0	5,014	5,232	60	9.9	6.8	28.2	0.00	0.00	0.00	0.00						89.238	79.091					7.06	47.4	47.4	37.8					
04/05/2018	6.74	<0.10	47.4	37.4	28.2	4,530	2,695	24	9.9	7.2	3.9	0.00	0.00	0.00	0.00						84.839	79.211	7.29	7.5	13.2	10.4	7.41	86.4	152.0	116.0					
04/06/2018	6.72	<0.10	65.6	52.4	42.6	6,330	4,111		10.0	6.5	4.1	0.00	0.00	0.00	0.00						72.157	76.058	7.11	3.3	10.0	6.4	7.06	45.0	81.4	65.0					
04/07/2018	6.84	0.10	53.6	45.2	45.0	5,552	4,661	1500	9.5	7.4	19.6	0.00	0.00	0.00	0.00						50.000	71.489	7.22	4.3	9.0	6.0	7.12	13.2	9.0	7.4					
04/08/2018	6.90	1.00	64.2	53.8	64.8	6,184	6,242	700	9.5	8.1	23.2	0.00	0.00	0.00	0.00	1.08	104				64.973	70.278	7.32	3.3	8.0	12.0	7.21	39.6	45.6	36.4					
04/09/2018	6.61	<0.10	33.6	25.4	55.2	3,004	4,935	21	9.9	7.2	5.8	0.00	0.00	0.00	0.00	0.70	63	0.12	11		73.589	84.444	7.58	8.4	8.8	5.6	7.47	15.5	10.0	6.2	52.00	110.00	0.93	21.00	<0.20
04/10/2018	6.86	<0.10	50.0	40.0	45.6	4,262	3,887	3	10.2	6.8	8.6	0.00	0.00	0.00	0.00	1.04	89				80.678	81.618	7.69	32.4	27.2	20.2	7.49	34.2	33.0	22.8					
04/11/2018	6.99	0.20	10.0	6.4	13.2	866	1,143	6	10.4	5.7	7.7	0.00	0.00	0.00	0.00						96.471	98.092	7.34	18.8	12.0	9.4	7.11	18.8	14.4	9.6					
04/12/2018	6.68	<0.10	12.2	9.6	16.1	1,058	1,396	20	10.2	6.8	3.0	0.00	0.00	0.00	0.00						94.686	97.550	7.80	16.1	11.2	8.0	7.57	18.3	10.4	8.2					
04/13/2018	7.10	0.10	18.8		16.2	1,579	1,361	10	11.1	7.3	7.9	0.00	0.00	0.00	0.00						94.130	94.503	7.49	13.1	12.8		7.22	14.7	14.8						
04/14/2018	7.03	0.10	10.4		10.2	834	818	5	11.3	7.5	3.2	0.00	0.00	0.00	0.00						95.189	96.119	7.55	13.5	12.0		7.33	17.1	16.0						
04/15/2018	7.01	0.10	9.0	5.8	5.7	661	419	6	10.9	7.8	3.2	0.00	0.00	0.00	0.00						97.107	96.565	7.52	14.0	10.8	9.2	7.36	17.1	15.2	12.6					
04/16/2018	7.10	0.10	137.0	84.0	88.8	21,755	14,101	78	10.5	7.5	3.6	0.00	0.00	0.00	0.00	1.53	243	5.56	883		53.508	42.437	7.55	34.2	48.0	38.0	7.41	37.8	37.6	27.6					
04/17/2018	6.81	2.00	121.0	88.0	37.2	22,524	6,925	14200	8.2	9.0	44.8	0.00	0.00	0.00	0.00	1.53	285				68.205	-4.310	7.69	4.1	8.6	5.6	7.52	23.4	40.4	30.6					
04/18/2018	7.18	2.80	35.2	26.6	40.8	5,243	6,077	600	8.7	9.1	40.2	0.00	0.00	0.00	0.00						47.692	74.857	7.29	6.3	5.4	3.8	7.02	8.4	12.8	10.6					
04/19/2018	6.68	0.00	28.4	20.0	40.5	3,730	5,320	6	9.4	7.3	15.8	0.00	0.00	0.00	0.00	0.58	76				71.277	85.208	7.65	7.8	7.6	5.4	7.33	6.6	14.8	9.4					
04/20/2018	6.91	<0.10	24.4		31.2	2,843	3,635	7	10.0	6.3	3.9	0.00	0.00	0.00	0.00						56.667	89.009	7.38	8.6	12.8		7.12	12.9	23.6						
04/21/2018	6.78	0.00	16.4		17.6	1,767	1,896	5	9.9	6.6	14.9	0.00	0.00	0.00	0.00						73.333	92.264	7.49	10.2	11.2		7.11	10.5	15.2						
04/22/2018	6.59	0.00	5.8	4.6	7.9	586	799	1	10.5	5.7	3.1	0.00	0.00	0.00	0.00	0.19	19				94.803	96.628	7.62	14.7	7.4	5.4	7.36	13.7	14.2	9.8					
04/23/2018	6.74	<0.10	91.0	60.0	51.6	9,403	5,332	9	10.7	5.6	3.3	0.00	0.00	0.00	0.00	1.73	179	7.95	821		74.328	54.950	7.77	60.0	71.0	66.0	7.58	14.9	11.0	7.4					
04/24/2018	7.45	10.00	42.2	31.8	42.6	3,618	3,652	1120	10.6	6.5	68.2	0.00	0.00	0.00	0.00	0.92	79				80.278	85.035	7.75	10.8	7.6	5.4	7.58	67.2	91.0	65.0					
04/25/2018	7.17	<0.10	20.4	14.8	28.8	2,457	3,468	6	11.9	7.1	6.3	0.00	0.00	0.00	0.00						84.762	92.388	7.29	7.7	8.0	5.4	7.22	24.8	14.6	8.8					
04/26/2018	6.60	<0.10	6.0	4.8	9.4	693	1,085	3	11.7	5.7	2.2	0.00	0.00	0.00	0.00						95.079	97.000	7.55	8.4	7.8	5.8	7.44	15.0	11.0	8.0					
04/27/2018	6.78	<0.10	9.4	5.4	8.0	1,058	900	1	12.1	7.9	3.2	0.00	0.00	0.00	0.00						96.429	96.439	8.16	7.9	8.0	5.4	8.05	13.7	13.0	9.2					
04/28/2018	6.69	<0.10	5.4	5.8	6.3	564	658	2	11.7	6.0	2.0	0.00	0.00	0.00	0.00						95.000	96.966	7.99	8.8	8.0	5.2	8.05	12.5	9.4	8.0					
04/29/2018	6.76	<0.10	8.2	2.6	4.6	843	473	1	11.9	7.3	2.1	0.00	0.00	0.00	0.00	0.14	14	1.84	189		96.593	94.675	7.44	4.6	4.8	3.0	7.29	8.7	9.6	6.4					
04/30/2018	6.61	<0.10	9.6	4.4	5.8	961	580	0	11.7	6.2	2.1	0.00	0.00	0.00	0.00	0.16	16	1.80	180		96.979	96.336	7.59	6.5	9.8	6.6	7.43	9.9	14.8	10.2					
MMAVG													MMAVG		0.49																				
Min.	6.6	0.00	5	3	5	564	419	0	8.2	5.6	2			0.00	0.00	0.14	14	0.12	11		47.69	-4.31	7.1	2.8	4.8	3.0	7.0	6.6	8.4	3.8	52.0	110	0.93	21.0	<0.20
Max.	7.5	10.00	137	88	89	22524	14101	14200	12.1	9.1	68			0.00	0.00	1.73	285	8.85	883		97.11	98.09	8.2	60.0	71.0	66.0	8.1	86.4	152.0	116.0	52.0	110	0.93	21.0	<0.20
Total																																			
Average	6.9	<0.81	36	28	32	4230	3512	19	10.4	7.0	13			0.00	0.00	0.85	98	4.35	481		80.64	82.52	7.5	12.2	13.5	10.8	7.4	25.1	27.4	21.5	52.0	110	0.93	21.0	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
04/01/2018	8,250	7,960	6,650	6,410	10,910	9,540	6.40	8.10	2,462,400	2,772,000	57,624	55,599	2,303	25,309	2,031	25,523	85	92		3,060		2,520		8,990		6.50		2,592,000		31,581						98
04/02/2018	8,180	7,960	6,800	6,600	10,970	9,530	6.90	8.50	2,404,800	2,759,040	57,135	55,599	4,903	53,739	4,274	53,747	77	80		2,610		2,380		7,990		8.20		2,592,000		26,937						96
04/03/2018	6,700	10,400	5,350	7,630	7,030	11,780	5.27	7.33	2,839,680	2,388,960	46,798	72,641	6,373	67,681			97	61		3,880		3,180		7,820		10.00		2,448,000	86,694	40,045						111
04/04/2018	6,960	7,170	5,610	5,800	11,590	10,370	5.40	7.50	2,436,480	2,800,800	48,614	50,081	1,858	23,926	2,234	24,186	83	84		4,930		4,040		7,700		5.10		2,592,000		50,881						130
04/05/2018	5,750	6,370	5,180	5,280	12,050	10,240	5.40	8.10	2,364,480	2,780,640	40,162	44,493					78	71		2,430				11,400		10.00		2,592,000		25,079						
04/06/2018	6,670	6,710	5,310	5,320	11,660	10,210	3.33	7.27	2,364,480	2,736,000	46,588	46,868	8,113	67,934	6,422	67,968	93	94		3,280		2,660		7,960		7.58		2,592,000		33,852						116
04/07/2018	7,470	7,370	5,980	5,820	10,820	10,440	7.73	9.86	2,584,800	2,620,800	52,176	51,478	5,051	54,440	4,820	54,421	95	100		4,870		3,970		7,790		8.96		2,592,000		50,262						150
04/08/2018	7,060	7,010	5,700	5,620	10,390	10,020	6.72	9.01	2,580,480	2,581,920	49,312	48,963	2,094	24,106	2,043	23,950	99	101		5,570		4,750		7,480		8.29		2,592,000		57,487						144
04/09/2018	6,530	11,010	5,310	8,670	7,020	11,050	5.83	8.73	2,592,000	2,592,000	45,610	76,902	4,125	56,818	5,001	56,924	101	65		4,580		2,400		8,960		7.83		2,592,000		47,269						155
04/10/2018	6,460	6,630	5,230	5,360	11,590	9,360	6.03	9.06	3,368,160	2,537,280	45,121	46,309	4,472	45,101	3,818	45,166	99	100		5,100		4,150		8,380		8.47		2,592,000		52,636						157
04/11/2018	7,760	7,530	6,300	6,050	10,320	9,130	6.18	8.96	2,880,000	2,880,000	54,202	52,595	6,561	67,873	5,311	68,030	76	80		3,300		2,730		7,820		8.45		2,592,000		34,058						94
04/12/2018	5,880	6,050	5,540	4,960	11,940	10,700	1.25	3.45	2,908,800	2,880,000	41,070	42,258	4,759	47,792			87	91		4,430		3,620		8,300		7.99		2,592,000		45,721						108
04/13/2018	5,970	6,210	4,830	4,590	9,870	10,170	1.23	2.42	2,920,320	2,898,720	41,699	43,375	6,165	74,898		49,498	91	85		4,160		3,350		8,700		6.46		2,592,000		42,934						120
04/14/2018	5,940	6,120	4,910	5,000	9,310	10,150	1.10	1.81	3,055,680	2,865,600	41,489	42,747					108	114		4,070		3,450		8,290		4.94		2,851,200		42,005						160
04/15/2018	6,330	6,380	5,020	5,050	9,460	10,510	1.43	2.89	3,024,000	2,851,200	44,213	44,563					103	113		4,450		3,520		8,790		5.87		2,764,800		45,927						151
04/16/2018	6,300	6,130	5,170	5,090	9,060	10,740	1.39	0.72	2,980,800	2,743,200	44,004	42,817	5,823	75,403	3,364	37,961	81	90		4,540		3,780		8,550		3.33		2,592,000		46,856						110
04/17/2018	6,220	6,460	5,060	5,330	11,150	10,790	5.83	10.00	2,592,000	2,907,360	43,445	45,121	3,403	45,034	4,557	50,874	97	99		6,500		5,630		8,570		9.09		2,592,000		67,085						123
04/18/2018	6,170	6,930	5,280	5,590	9,720	10,100	5.70	9.76	2,665,440	2,806,560	43,096	48,404	6,213	75,248	6,078	72,298	118	111		6,490		5,220		7,100		8.63		2,592,000		66,982						136
04/19/2018	5,620	5,940	4,580	4,840	10,250	10,660	3.88	8.51	2,659,680	2,822,400	39,254	41,489	6,699	75,072	6,451	72,087	80	88		5,880		4,710		8,480		8.30		2,592,000		60,686						124
04/20/2018	5,050	5,170	4,140	4,240	10,410	9,640	1.86	7.25	2,685,600	2,822,400	35,273	36,111	4,010	44,974	6,179	75,295	119	112		4,210		3,380		9,160		8.33		2,592,000		43,450						169
04/21/2018	5,400	5,400	4,450	4,440	9,650	9,320	1.11	5.85	2,705,760	2,628,000	37,718	37,718					104	102		5,180		4,190		8,370		8.36		5,184,000		53,461						147
04/22/2018	4,690	4,960	3,930	4,110	9,480	9,230	1.69	4.50	2,659,680	2,609,280	32,758	34,644	6,020	75,463	3,495	45,178	85	85		4,420		3,610		9,720		6.81		5,256,000		45,618						120
04/23/2018	5,020	5,290	4,080	4,430	9,560	10,090	1.63	3.98	2,607,840	2,664,000	35,063	36,949	1,075	13,591	624	8,106	104	113		4,560		3,620		11,020		8.80		2,592,000		47,063						114
04/24/2018	4,350	4,540	3,580	3,720	10,980	9,690	0.87	2.81	2,764,800	2,592,000	30,384	31,711	6,370	75,298	6,110	75,382	99	97																		
04/25/2018	5,340	5,590	4,430	4,560	10,010	11,110	10.00	9.34	2,757,600	2,635,200	37,299	39,045	14,432	58,687	5,083	57,618	101	115		3,920		3,110		8,740		5.38		2,620,800		40,457						105
04/26/2018	4,650	5,110	3,880	4,160	9,630	10,780	4.20	7.70	2,764,800	2,635,200	32,479	35,692	1,845	22,525	6,141	67,955	86	80		3,920		3,110		9,840		8.73		2,606,400		40,457						102
04/27/2018	4,260	5,000			9,880	9,690	3.79	6.81	2,753,280	2,710,080	29,755	34,924	5,425	65,901	6,886	79,241	108	96		4,030				9,040		6.68		2,592,000		41,593						119
04/28/2018	4,680	4,830	3,930	4,010	10,040	9,800	1.01	2.05	2,761,920	2,904,480	32,689	33,736	6,230	67,667	5,019	61,414	86	97		5,880		4,960		9,890		5.40		2,592,000		60,686						77
04/29/2018	4,970	4,650	4,090	4,020	9,980	9,420	3.95	7.10	2,746,080	2,927,520	34,714	32,479	5,596	67,232	4,424	56,308	89	97		4,250		3,480		9,380		5.05		2,592,000		43,863						106
04/30/2018	5,000	4,840	4,140	4,000	9,940	8,560	4.87	7.71	2,718,720	2,897,280	34,924	33,806	854	10,283	787	10,497	74	85		4,360		3,560		9,000		5.90		2,592,000		44,998						108
MMAVG																																				
Min.	4,260	4,540	3,580	3,720	7,020	8,560	1	1	2,364,480	2,388,960	29,755	31,711	854	10,283	624	8,106	74	61		2,430		2,380		7,100		3		2,448,000		25,079						77
Max.	8,250	11,010	6,800	8,670	12,050	11,780	10	10	3,368,160	2,927,520	57,624	76,902	14,432	75,463	6,886	79,241	119	115		6,500		5,630		11,400		10		5,256,000		67,085						169
Total									81,610,560	82,249,920	1,254,668	1,339,117	130,772	1,381,995	101,152	1,239,627												80,755,200		1,329,929						
Average	5,988	6,391	4,981	5,197	10,156	10,094	4	7	2,720,352	2,741,664	41,822	44,637	5,030	53,154	4,398	51,651	93	93		4,443		3,670		8,732		7		2,784,662		45,860						123

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Merchant Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
05/01/2018	11.22	14.36	6.65	0.00	0.198	0.000	66,948		58.0	10.9	7.58	218	226	20,399	21,148		7.64	0.4	81	64	152	7,580	14,223		
05/02/2018	10.79	13.32	5.82	0.00	0.199	0.000	61,917		63.0	11.4	7.43	240	382	21,597	34,376		7.57	0.5	107	81	140	9,629	12,598		
05/03/2018	9.94	13.21	6.09	0.00	0.208	0.000	42,885		66.0	11.4	7.57	234	324	19,399	26,859		7.56	0.5	109	85	111	9,036	9,202		
05/04/2018	10.13	12.63	6.20	0.00	0.236	0.000	51,046		63.0	12.8	6.68	171	256	14,447	21,628		6.70	9.0	237	194	165	20,023	13,940		
05/05/2018	9.51	12.88	5.55	0.00	0.240	0.000	13,735		55.0	11.8	6.70	153	224	12,135	17,766		7.42	9.0	192	161	134	15,228	10,628		
05/06/2018	9.84	10.16	6.46	0.60	0.224	0.000	3,959		53.0	12.6	7.62	219	226	17,972	18,547		7.66	6.0	146	126	135	11,982	11,079		
05/07/2018	10.07	14.02	5.42	0.00	0.207	0.000	49,142		58.0	13.0	7.57	264	508	22,172	42,664		7.67	5.5	149	129	179	12,514	15,033		
05/08/2018	9.60	13.19	5.50	0.00	0.204	0.000	52,754		55.0	13.0	7.59	230	348	18,415	27,862		7.65	5.5	158	138	179	12,650	14,331		
05/09/2018	9.26	12.32	5.29	0.00	0.161	0.000	67,875		62.0	13.1	7.53	270	372	20,852	28,729		7.57	8.0	217	203	230	16,759	17,763		
05/10/2018	9.11	12.73	5.24	0.00	0.185	0.000	37,387		47.0	12.9	7.55	230	344	17,475	26,136		7.69	5.5	168	131	165	12,764	12,536		
05/11/2018	8.58	14.30	4.77	0.00	0.148	0.000	52,545		59.0	12.8	7.38	265	404	18,963	28,909		7.44	6.5	225	180	87	16,100	6,225		
05/12/2018	8.69	13.77	4.85	0.12	0.195	0.000	14,438		49.0	13.5	7.55	84	306	6,088	22,177		7.51	6.5	204	163	141	14,785	10,219		
05/13/2018	8.24	12.38	5.17	0.00	0.199	0.000	2,530				7.62	212	278	14,569	19,105		7.66	6.0	176	144	168	12,095	11,545		
05/14/2018	8.31	11.58	4.30	0.00	0.208	0.000	106,570		50.0	13.8	7.51	290	444	20,099	30,772		7.52	11.0	290	236	275	20,099	19,059		
05/15/2018	9.38	19.72	4.30	0.30	0.206	0.058	64,074		64.0	13.4	7.57	312	470	24,408	36,768		7.62	12.0	313	241	270	24,486	21,122		
05/16/2018	8.45	11.31	4.62	0.00	0.202	0.000	45,308		52.0	13.7	7.65	324	414	22,833	29,176		7.72	11.0	98	234	294	6,906	20,719		
05/17/2018	8.03	11.52	4.38	0.00	0.216	0.000	74,448		56.0	13.8	7.57	324	428	21,698	28,663		7.67	8.0	238	198	213	15,939	14,265		
05/18/2018	7.59	11.14	3.97	0.00	0.207	0.000	72,074		58.0	13.8	7.55	294	448	18,610	28,359		7.54	5.0	192		171	12,154	10,824		
05/19/2018	8.29	14.14	4.70	0.30	0.223	0.000	2,633		48.0	14.0	7.59	251	360	17,354	24,890		7.59	5.0	191		141	13,205	9,749		
05/20/2018	8.13	11.46	4.21	0.00	0.239	0.000	2,504		65.0	14.0	7.63	197	284	13,357	19,256		7.68	4.5	162	134	160	10,984	10,849		
05/21/2018	7.60	30.01	3.09	0.00	0.218	0.127	63,535		65.0	15.4	7.48	381	488	24,149	30,931		7.61	42.0	680	544	386	43,101	24,466		
05/22/2018	7.83	10.88	4.17	0.00	0.231	0.000	70,390		57.0	14.8	7.65	312	448	20,374	29,255		7.71	7.0	232	194	245	15,150	15,999		
05/23/2018	8.05	18.47	3.83	0.20	0.234	0.055	40,824		62.0	14.1	7.53	320	452	21,484	30,346		7.60	10.0	310	251	258	20,812	17,321		
05/24/2018	7.36	10.49	3.25	0.00	0.242	0.000	69,056		60.0	14.5	7.51	333	500	20,440	30,691		7.56	11.0	309	255	288	18,967	17,678		
05/25/2018	7.55	11.35	3.72	0.00	0.244	0.000	65,194		68.0	14.6	7.52	129	326	8,123	20,527		7.43	10.0	295		129	18,575	8,123		
05/26/2018	6.86	11.40	3.75		0.247	0.000	11,532		71.0	14.7	7.57	120	326	6,865	18,651		7.60	7.0	191		125	10,928	7,152		
05/27/2018	7.39	10.92	3.80	0.09	0.256	0.000			58.0	15.6	7.65	90	278	5,547	17,134		7.71	2.0	102		165	6,287	10,169		
05/28/2018	7.15	10.69	3.67	0.01	0.254	0.000	3,272		58.0	15.6	7.69	264	320	15,743	19,082		7.84	6.0	165	129	198	9,839	11,807		
05/29/2018	6.93	10.21	3.49	0.00	0.263	0.000	41,163		65.0	15.0	7.58	336	498	19,420	28,783		7.66	9.5	343	289	293	19,824	16,934		
05/30/2018	6.79	9.50	3.25	0.00	0.252	0.000	73,825		66.0	15.5	7.71	366	498	20,726	28,201		7.62	23.0	624	524	390	35,336	22,085		
05/31/2018	6.82	9.96	2.53	0.00	0.258	0.000	93,769		63.0	15.7	7.38	405	546	23,036	31,056		7.50	16.0	427	348	333	24,287	18,941		
MMAVG	8.30																								
Min.	6.8	9.5	2.5	0.0		0.000	2,504		47.0	10.9	6.68	84	224	5,547	17,134		6.70	0.4	81	64	87	6287	6225		
Max.	11.2	30.0	6.7	0.6		0.127	106,570		71.0	15.7	7.71	405	546	24,408	42,664		7.84	42.0	680	544	390	43101	24466		
Total	263.5	404.0	142.0	1.6		0.240	1,417,332																		
Average	8.5	13.0	4.6	0.1		0.008	47,244		59.13	13.71	7.51	253	378	17702	26402		7.58	8.7	236	207	204	16065	14083		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																			PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
05/01/2018	6.87	<0.10	7.4	2.8	6.6	692	618	2	11.9	6.8	2.5	0.00	0.00	0.00	0.00	0.15	14				96.972	96.726	7.41	5.4	8.6	6.0	7.24	8.0	14.2	8.8					
05/02/2018	6.64	<0.10	8.6	5.0	4.5	774	405	0	12.3	7.3	3.2	0.00	0.00	0.00	0.00						98.125	97.749	7.50	6.0	9.0	4.6	7.30	6.3	11.8	8.0					
05/03/2018	6.76	<0.10	7.0	4.0	5.8	580	481	0	12.8	6.2	2.6	0.00	0.00	0.00	0.00						97.521	97.840	7.48	6.8	8.6	6.8	7.32	9.5	6.8	4.6					
05/04/2018	6.77	<0.10	11.2	7.4	5.3	946	448	0	13.2	7.1	2.4	0.00	0.00	0.00	0.00						96.901	95.625	7.25	6.9	11.0	7.8	7.30	5.9	14.0	10.4					
05/05/2018	6.83	<0.10	1.2	6.6	3.2	95	254	0	13.2	7.3	3.4	0.00	0.00	0.00	0.00						97.908	99.464	7.49	9.0	4.6	7.4	7.28	5.5	11.6	9.2					
05/06/2018	6.72	0.00	6.2	4.0	5.8	509	476	1	13.3	7.3	2.3	0.00	0.00	0.00	0.00	0.13	11	0.78	64		97.352	97.257	7.52	6.3	6.6	5.8	7.34	9.9	15.8	13.0					
05/07/2018	7.03	<0.10	6.0	3.0	5.4	504	454	0	13.4	7.4	2.4	0.00	0.00	0.00	0.00	0.16	13	0.80	67		97.955	98.819	7.50	7.0	9.0	6.0	7.29	8.4	14.0	9.4	41.00	<50.00	<0.50	18.00	<0.20
05/08/2018	6.86	<0.10	9.4	4.0	5.6	753	448	2	13.5	7.0	3.9	0.00	0.00	0.00	0.00	0.18	14				97.565	97.299	7.56	7.6	9.4	7.2	7.45	8.1	14.6	11.4					
05/09/2018	6.80	<0.10	7.6	4.0	6.5	587	502	1	13.7	7.3	3.3	0.00	0.00	0.00	0.00						97.593	97.957	7.53	9.0	9.8	8.4	7.26	8.1	17.8	13.0					
05/10/2018	6.90	<0.10	11.2	8.2	8.6	851	653	1	14.1	7.2	4.0	0.00	0.00	0.00	0.00						96.261	96.744	7.62	19.4	12.6	9.0	7.43	16.4	22.0	16.6					
05/11/2018	6.87	0.60	11.6	7.8	7.1	830	508	900	14.2	6.4	8.8	0.00	0.00	0.00	0.00						97.321	97.129	7.44	10.8	14.4	9.4	7.16	17.0	22.0	14.6					
05/12/2018	7.01	<0.10	7.0	7.0	6.2	507	449	8	14.1	7.4	1.7	0.00	0.00	0.00	0.00						92.619	97.712	7.52	7.4	12.4	9.4	7.21	14.4	22.6	16.8					
05/13/2018	6.93	<0.10	8.8	5.0	4.3	605	296	0	13.8	7.6	1.3	0.00	0.00	0.00	0.00	0.17	12	0.16	11		97.972	96.835	7.68	3.6	8.0	5.8	7.32	8.6	17.4	12.2					
05/14/2018	7.02	<0.10	7.6	4.2	6.3	527	437	4	14.3	7.2	3.4	0.00	0.00	0.00	0.00	0.21	15	0.18	12		97.828	98.288	7.54	4.1	8.8	5.2	7.33	8.4	19.0	13.2					
05/15/2018	6.90	<0.10	10.4	4.2	6.8	814	532	7	14.9	6.9	5.7	0.00	0.00	0.00	0.00	0.28	22				97.821	97.787	7.67	6.0	10.0	5.6	7.29	10.1	20.4	13.6					
05/16/2018	6.98	<0.10	8.6	3.8	7.1	606	500	0	15.3	7.0	4.0	0.00	0.00	0.00	0.00						97.809	97.923	7.77	5.3	8.0	4.4	7.37	9.6	18.8	11.0					
05/17/2018	7.07	<0.10	7.8	2.4	6.1	522	409	3	15.1	7.0	4.6	0.00	0.00	0.00	0.00						98.117	98.178	7.64	6.6	7.0	5.6	7.41	15.0	16.4	10.8					
05/18/2018	6.87	0.20	10.4		5.8	658	367	12	15.1	6.2	5.9	0.00	0.00	0.00	0.00						98.027	97.679	7.60	4.6	12.0		7.25	9.3	22.6						
05/19/2018	7.07	0.10	15.4		4.3	1,065	297	1	14.7	7.4	2.8	0.00	0.00	0.00	0.00						98.287	95.722	7.58	4.4	20.6		7.24	7.8	22.6						
05/20/2018	6.97	0.10	7.8	3.6	3.3	529	224	2	14.9	7.1	2.9	0.00	0.00	0.00	0.00	0.21	14	0.21	14		98.325	97.254	7.63	3.2	8.8	6.6	7.35	8.1	20.6	16.2					
05/21/2018	6.97	<0.10	6.8	2.4	6.0	431	380	4	15.2	7.2	3.6	0.00	0.00	0.00	0.00	0.29	18	0.80	51		98.425	98.607	7.65	6.3	6.2	3.8	7.43	13.2	21.4	15.6					
05/22/2018	6.90	<0.10	9.0	6.0	5.5	588	359	3	15.5	7.2	3.1	0.00	0.00	0.00	0.00	0.24	16				98.237	97.991	7.77	3.8	8.0	5.8	7.49	7.0	17.6	12.8					
05/23/2018	7.07	<0.10	9.6	6.0	6.0	645	403	5	15.5	7.2	3.3	0.00	0.00	0.00	0.00						98.125	97.876	7.77	3.6	5.8	4.0	7.44	7.1	20.6	13.8					
05/24/2018	7.10	<0.10	7.6	4.2	4.8	467	295	0	15.9	7.1	3.6	0.00	0.00	0.00	0.00						98.559	98.480	7.72	3.5	7.0	4.8	7.37	11.4	17.0	11.8					
05/25/2018	6.97	0.20	10.2		4.2	642	264	20	16.1	6.2	5.0	0.00	0.00	0.00	0.00						96.744	96.871	7.51	3.7	11.0		7.24	6.8	15.4						
05/26/2018	6.89	0.00	10.0		4.1	572	235	0	16.3	6.9	2.3	0.00	0.00	0.00	0.00						96.583	96.933	7.58	3.8	10.2		7.32	6.5	14.8						
05/27/2018	6.93	0.00	8.2		3.1	505	191	0	16.4	7.1	2.9	0.00	0.00	0.00	0.00						96.556	97.050	7.58	3.1	7.6		7.27	5.0	13.6						
05/28/2018	6.96	0.00	10.0	4.6	3.5	596	209	1	15.9	7.2	2.5	0.00	0.00	0.00	0.00	0.26	16	0.12	7		98.674	96.875	7.79	2.5	7.4	4.4	7.38	5.0	13.4	9.6					
05/29/2018	6.97	<0.10	6.8	5.0	5.1	393	295	1	16.3	7.1	2.9	0.00	0.00	0.00	0.00	0.30	17	0.17	10		98.482	98.635	7.64	5.5	7.6	6.0	7.43	7.3	20.8	14.2					
05/30/2018	7.13	<0.10	6.0	3.6	5.4	340	306	4	16.7	7.1	2.8	0.00	0.00	0.00	0.00	0.26	15				98.525	98.795	7.84	3.5	6.8	4.6	7.54	8.4	27.8	21.2					
05/31/2018	7.21	<0.10	7.4	4.4	7.8	421	444	6	16.9	6.9	4.3	0.00	0.00	0.00	0.00						98.074	98.645	7.84	4.0	6.2	3.6	7.42	11.7	18.8	12.2					
MMAVG														MMAVG		0.48																		
Min.	6.6	0.00	1	2	3	95	191	0	11.9	6.2	1			0.00	0.00	0.13	11	0.12	7		92.62	95.63	7.3	2.5	4.6	3.6	7.2	5.0	6.8	4.6	41.0	<50	<0.50	18.0	<0.20
Max.	7.2	0.60	15	8	9	1065	653	900	16.9	7.6	9			0.00	0.00	0.30	22	0.80	67		98.67	99.46	7.8	19.4	20.6	9.4	7.5	17.0	27.8	21.2	41.0	<50	<0.50	18.0	<0.20
Total																																			
Average	6.9	<0.11	8	5	5	599	392	2	14.7	7.0	3			0.00	0.00	0.22	15	0.40	30		97.59	97.64	7.6	5.9	9.1	6.1	7.3	9.2	17.6	12.5	41.0	<50	<0.50	18.0	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
05/01/2018	4,790	5,010	3,950	4,100	9,530	8,500	5.48	7.80	2,741,760	3,028,320	33,457	34,994					100	102		4,160		3,340		9,290		6.07		2,592,000		42,934						139
05/02/2018	5,070	5,170	4,200	4,190	9,970	8,580	5.21	7.27	2,737,440	2,996,640	35,413	36,111					93	97		4,490		3,560		9,480		6.07		4,896,000		46,340						125
05/03/2018	5,180	5,270	4,290	4,280	9,530	9,220	4.07	5.93	2,764,800	3,016,800	36,181	36,810	437	5,359			89	97		4,440		3,520		9,380		4.85		2,448,000	86,694	45,824			4,263	54,060		122
05/04/2018	5,510	5,310	4,610	4,400	9,570	9,320	4.85	5.67	2,736,000	2,995,200	38,486	37,089	4,547	54,139	5,071	63,868	94	109		4,490		3,640		8,970		5.10		2,520,000		46,340			3,811	50,936		134
05/05/2018	5,790	6,010	4,480	4,620	10,130	10,130	1.50	4.35	2,769,120	2,975,040	40,442	41,978	4,584	54,258	4,270	33,996	95	98		5,060		3,750		10,510		5.20		2,592,000		52,223			2,975	35,778		113
05/06/2018	5,940	6,220	4,910	5,070	10,210	9,770	4.47	5.60	1,565,280	2,934,720	41,489	43,445	4,606	54,093	4,037	49,543	84	87		5,060		3,990		10,490		5.89		2,592,000		52,223			4,731	54,072		109
05/07/2018	5,720	5,880	4,700	4,980	10,020	10,030	4.88	5.74	2,705,760	2,949,120	39,953	41,070	4,542	53,344	3,671	44,466	70	75		5,000		4,050		10,580		6.38		2,592,000		51,604			4,562	52,147		86
05/08/2018	6,140	5,330	5,100	4,420	7,940	8,430	3.85	4.55	2,734,560	2,940,480	42,886	37,229			3,553	39,552	95	98		4,830		3,820		10,550		5.52		2,592,000		49,849			3,586	39,552		128
05/09/2018	5,210	6,150	4,310	5,310	10,430	9,610	4.60	4.60	2,769,120	2,937,600	36,391	42,956			1,369	14,765	115	88		4,950		4,110		10,450		5.50		2,736,000		51,088			1,213	13,375		117
05/10/2018	5,920	6,140	4,970	5,150	11,460	10,900	2.92	3.76	2,700,000	3,083,040	41,350	42,886					100	109		5,540		4,480		9,980		4.54		2,736,000		57,177						108
05/11/2018	6,490	6,880	5,760	5,620	10,290	9,600	1.10	1.39	2,995,200	2,736,000	45,331	48,055			6,541	74,335	113	113		5,720		4,040		10,470		2.36		2,721,600		59,035			6,261	67,694		115
05/12/2018	5,950	6,400	5,020	5,330	10,500	8,960	7.55	7.58	2,687,040	2,956,320	41,559	44,702	5,788	59,520	3,237	38,400	86	102		5,800		4,760		10,150		5.00		2,160,000		59,860						105
05/13/2018	4,910	5,280	4,120	4,390	8,220	9,330	8.21	8.62	2,645,280	2,599,200	34,295	36,879	2,975	30,589	1,613	19,138	92	97		5,330		4,300		10,210		5.57		2,592,000		55,010			3,194	37,620		114
05/14/2018	5,640	6,050	4,670	4,970	9,750	9,940	7.87	8.41	2,664,000	2,620,800	39,394	42,258	3,704	54,033	4,707	56,104	80	89		5,630		4,480		10,660		5.99		2,880,000		58,106			1,687	19,817		98
05/15/2018	6,400	6,840	5,260	5,580	10,170	10,920	6.85	7.36	2,736,000	2,592,000	44,702	47,776			963	10,036	78	79		6,150		4,960		10,970		4.85		2,592,000		63,473			2,640	28,792		98
05/16/2018	6,020	6,420	4,880	5,300	9,960	10,800	6.25	6.48	2,736,000	2,592,000	42,048	44,842	4,145	48,251	4,932	53,587	90	89		5,940		4,760		10,650		4.22		2,592,000		61,305						96
05/17/2018	6,420	7,060	5,270	5,920	9,760	11,330	7.09	7.30	2,697,120	2,697,120	44,842	49,312	7,718	89,367	6,160	68,066	94	99		6,440		5,150		12,390		4.58		2,520,000		66,466						107
05/18/2018	6,070	6,490	5,000	5,290	9,950	9,600	7.04	7.29	2,596,320	2,730,240	42,397	45,331	4,347	52,571	3,462	41,156	101	108		6,290		5,000		11,520		4.42		2,520,000		64,918			2,825	29,400		111
05/19/2018	6,090	6,340	4,910	5,170	11,110	9,570	7.01	7.33	2,736,000	2,705,760	42,537	44,283					99	103		6,280		4,880		11,870		5.07		2,520,000		64,814			1,226	12,764		113
05/20/2018	5,990	6,420	4,850	5,170	13,490	10,280	6.53	6.85	2,733,120	2,700,000	41,839	44,842	5,044	44,837	3,115	36,331	100	106		6,380		4,970		11,790		4.95		2,563,200		65,846						108
05/21/2018	5,860	4,590	4,660	3,380	9,060	9,200	6.98	7.49	2,626,560	2,640,960	40,931	32,060	8,325	73,997	5,012	58,461	85	120		6,670		5,220		11,210		5.62		2,592,000		68,839						100
05/22/2018	6,080	6,330	4,960	5,080	9,130	11,220	6.72	7.16	2,560,320	2,160,000	42,467	44,213	9,846	114,509	32,809	120,954	86	89		5,940		4,600		10,620		5.32		2,664,000		61,305						89
05/23/2018	5,460	6,020	4,380	4,880	8,940	10,790	7.03	7.42	2,538,720	2,638,080	38,137	42,048	2,731	32,810	2,316	23,068	90	90		6,190		4,810		11,730		6.16		2,592,000		63,885			4,309	47,800		91
05/24/2018	6,440	6,850	5,680	5,140	10,640	10,380	6.23	6.60	2,570,400	2,609,280	44,982	47,846					90	86		6,470		5,410		11,680		6.06		2,592,000		66,775			2,103	23,324		90
05/25/2018	6,700	6,930	5,460	5,610	10,700	10,370	6.06	6.53	2,484,000	2,558,880	46,798	48,404	6,055	67,920	5,864	64,654	85	90		6,520		5,180		10,890		5.20		2,592,000		67,291						89
05/26/2018	6,240	6,610	5,020	5,310	9,120	10,280	6.06	6.27	2,592,000	2,394,720	43,585	46,169	356	4,080	663	7,346	90	91		6,640		5,230		10,920		3.90		2,592,000		68,530						75
05/27/2018	6,200	6,640	4,930	5,310	9,730	11,020	7.08	7.57	2,550,240	2,370,240	43,305	46,379	5,657	71,962	6,418	72,257	84	87		6,770		5,230		11,900		5.30		2,448,000		69,871						83
05/28/2018	5,920	6,020	4,810	4,970	9,000	10,340	7.48	7.82	2,524,320	2,548,800	41,350	42,048					101	105		6,520		5,230		11,260		5.58		2,592,000		67,291						95
05/29/2018	6,250	6,340	4,960	4,950	9,070	9,480	7.18	7.49	2,426,400	2,547,360	43,655	44,283					94	101		6,560		5,110		11,210		4.82		2,664,000		67,704			6,731	72,000		102
05/30/2018	6,040	6,190	4,830	5,010	10,110	10,780	6.97	9.94	2,404,800	2,419,200	42,188	43,236	4,897	59,977	5,203	59,990	96	102		6,440		5,130		10,830		3.84		2,592,000		66,466						93
05/31/2018	6,900	7,250	5,430	5,690	10,020	10,520	6.68	7.03	2,496,960	2,403,360	48,195	50,639	5,385	59,540	5,405	62,400	94	97		7,170		5,380		12,480		3.29		2,592,000		74,000						91
MMAVG																																				
Min.	4,790	4,590	3,950	3,380	7,940	8,430	1	1	1,565,280	2,160,000	33,457	32,060	356	4,080	663	7,346	70	75		4,160		3,340		8,970		2		2,160,000		42,934			1,213	12,764		75
Max.	6,900	7,250	5,760	5,920	13,490	11,330	8	10	2,995,200	3,083,040	48,195	50,639	9,846	114,509	32,809	120,954	115	120		7,170		5,410		12,480		6		4,896,000		74,000			6,731	72,000		139
Total									81,224,640	84,077,280	1,280,585	1,330,173	95,689	1,085,156	120,391	1,112,473												82,468,800		1,856,392			56,117	639,131		
Average	5,914	6,143	4,851	4,987	9,920	9,974	6	7	2,620,150	2,712,170	41,309	42,909	4,784	54,258	5,234	48,368	92	97		5,802		4,584		10,809		5		2,660,284		59,884			3,507	39,946		105

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
06/01/2018	6.49	10.68	3.50	0.00	0.261	0.000	33,923		66.0	15.5	7.54	345	450	18,674	24,357		7.42	10.0	294	242	264	15,913	14,289		
06/02/2018	6.36	10.36	3.42	0.00	0.279	0.000	20,909		73.0	15.9	7.57	191	350	10,131	18,565		7.63	10.0	263	213	188	13,950	9,972		
06/03/2018	6.18	8.88	4.06	0.01	0.241	0.000	8,123		56.0	15.7	7.63	312	410	16,081	21,132		7.76	8.0	251	211	225	12,937	11,597		
06/04/2018	7.39	16.42	4.08	0.25	0.254	0.000	19,338		48.0	15.9	7.63	371	550	22,866	33,898		7.83	4.5	176	149	189	10,847	11,649		
06/05/2018	6.59	10.13	0.00	0.00	0.273	0.000	62,630		53.0	15.8	7.70	372	586	20,445	32,207		7.88	4.1	166	143	197	9,123	10,827		
06/06/2018	6.32	8.44	0.00	0.00	0.236	0.000			55.0	16.1	7.66	332	488	17,499	25,722		7.89	2.0	128	103	179	6,747	9,435		
06/07/2018	6.36	10.17	0.00	0.00	0.270	0.000	62,645		63.0	16.1	7.66	348	626	18,459	33,205		7.76	4.0	159	135	204	8,434	10,821		
06/08/2018	6.45	7.55	0.00	0.00	0.311	0.000	51,822		62.0	16.5	6.59	246	456	13,233	24,530		7.75	4.0	185	140	138	9,952	7,423		
06/09/2018	5.99	8.83	3.07	0.00	0.225	0.000	24,735		70.0	16.7	6.61	174	338	8,692	16,885		7.70	5.0	235	191	216	11,740	10,791		
06/10/2018	5.87	9.20	3.09	0.00	0.263	0.000	5,921		70.0	16.4	7.61	330	356	16,155	17,428		7.78	9.0	242	200	270	11,847	13,218		
06/11/2018	6.12	8.90	2.83	0.00	0.264	0.000	41,181		61.0	16.9	7.62	407	530	20,774	27,052		7.69	6.5	222	180	282	11,331	14,394		
06/12/2018	5.86	9.14	2.30	0.00	0.267	0.000	84,577		59.0	16.6	7.67	372	594	18,181	29,030		7.75	3.2	149	125	240	7,282	11,729		
06/13/2018	5.86	8.59	2.55	0.00	0.274	0.000	62,503		67.0	16.7	7.76	398	634	19,451	30,985		7.79	5.5	191	153	270	9,335	13,196		
06/14/2018	9.01	9.95	1.84	0.01	0.274	0.000	56,194		66.0	17.0	7.69	360	538	27,052	40,427		7.68	7.0	240	188	282	18,034	21,190		
06/15/2018	5.63	11.04	2.86	0.00	0.280	0.000	33,388		53.0	16.8	7.61	159	616	7,466	28,924		7.54	6.5	256	205	132	12,020	6,198		
06/16/2018	5.56	8.15	2.50	0.00	0.266	0.000	9,367		65.0	18.3	7.62	377	438	17,482	20,310		7.60	10.0	325	255	273	15,070	12,659		
06/17/2018	5.41	8.99	2.54	0.00	0.290	0.000			70.0	17.0	7.71	378	350	17,055	15,792		7.75	6.0	203	171	264	9,159	11,912		
06/18/2018	8.93	34.12	2.72	1.90	0.288	1.411	64,083		71.0	17.1	7.77	371	670	27,631	49,899		7.82	19.0	362	289	282	26,960	21,002		
06/19/2018	6.63	9.24	3.01	0.00	0.305	0.000	80,126		70.0	18.2	7.84	318	548	17,584	30,301		7.85	10.0	234	191	236	12,939	13,049		
06/20/2018	6.09	10.03	2.63	0.00	0.271	0.000	64,637		61.0	17.7	7.76	339	568	17,218	28,849		7.86	6.1	283	218	276	14,374	14,018		
06/21/2018	5.98	9.52	2.80	0.00	0.286	0.000	65,023		63.0	17.6	7.80	405	650	20,199	32,418		7.79	13.0	512	386	363	25,535	18,104		
06/22/2018	5.79	11.13		0.00	0.287	0.000	49,684		59.0	18.0	7.74	428	580	20,668	28,007		7.56	15.0	526		401	25,400	19,364		
06/23/2018	5.80	10.00	2.80	0.00	0.284	0.000	13,627		58.0	18.0	7.69	347	522	16,785	25,250		7.63	14.0	407		332	19,687	16,060		
06/24/2018	6.16	31.49	0.00	1.10	0.289	0.949	12,801		61.0	17.9	7.72	209	476	10,737	24,454		7.82	8.5	344	267	207	17,673	10,635		
06/25/2018	8.94	9.22	3.10	0.00	0.278	0.000	58,505		62.0	18.3	7.73	342	600	25,499	44,736		7.86	6.5	228	174	210	17,000	15,658		
06/26/2018	6.13	9.03	2.77	0.00	0.290	0.000	96,749		59.0	18.0	7.74	324	528	16,564	26,994		7.80	3.5	142	113	201	7,260	10,276		
06/27/2018	6.11	13.84	3.46	0.70	0.295	0.000	55,947		58.0	17.9	7.56	372	560	18,956	28,536		7.79	4.0	139	112	203	7,083	10,344		
06/28/2018	12.04	31.04	4.75	0.90	0.276	1.612			62.0	17.9	7.72	210	272	21,087	27,312		7.74	6.0	124	98	167	12,451	16,769		
06/29/2018	7.41	12.45	4.02	0.00	0.300	0.000	84,220		63.0	18.1	7.49	132	448	8,158	27,686		7.53	5.0	129		147	7,972	9,085		
06/30/2018	6.57	7.96	3.33	0.00	0.276	0.000	3,684		70.0	18.4	7.46	117	340	6,411	18,630		7.54	4.0	135		119	7,397	6,520		
MMAVG	8.10																								
Min.	5.4	7.6	0.0	0.0		0.000	3,684		48.0	15.5	6.59	117	272	6,411	15,792		7.42	2.0	124	98	119	6747	6198		
Max.	12.0	34.1	4.8	1.9		1.612	96,749		73.0	18.4	7.84	428	670	27,631	49,899		7.89	19.0	526	386	401	26960	21190		
Total	200.0	364.5	74.0	4.9		3.972	1,226,342																		
Average	6.7	12.1	2.6	0.2		0.132	45,420		62.47	17.10	7.60	313	502	17240	27784		7.73	7.3	242	187	232	13182	12739		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
06/01/2018	6.90	<0.10	6.6	4.8	3.9	357	211	4	15.5	5.8	3.4	0.00	0.00	0.00	0.00						98.870	98.533	8.25	3.9	6.4	4.0	8.16	7.6	15.2	10.6					
06/02/2018	6.87	<0.10	6.4	4.6	3.3	339	175	0	17.2	6.7	2.4	0.00	0.00	0.00	0.00						98.272	98.171	8.37	2.9	3.4	2.4	8.23	6.9	15.8	12.4					
06/03/2018	6.99	<0.10	6.0	3.0	6.0	309	309	0	17.3	6.8	2.8	0.00	0.00	0.00	0.00	0.26	13	0.22	11		98.077	98.537	7.74	2.5	6.2	3.4	7.38	9.3	20.0	14.8					
06/04/2018	7.09	<0.10	9.6	6.2	4.5	592	277	0	17.1	6.8	4.0	0.00	0.00	0.00	0.00	0.32	20	0.33	20		98.787	98.255	7.79	2.6	7.2	4.2	7.47	12.0	30.6	21.4					
06/05/2018	7.09	<0.10	8.0	4.0	4.0	440	220	1	16.7	6.7	4.2	0.00	0.00	0.00	0.00	0.28	15	0.24	13		98.925	98.635	7.83	2.8	5.6	3.6	7.34	10.2	25.8	19.2	50.00	56.00	<0.50	26.00	<0.20
06/06/2018	7.10	<0.10	10.4	7.2	9.3	548	490	0	17.0	6.5	3.9	0.00	0.00	0.00	0.00						97.199	97.869	7.80	13.8	9.2	6.6									
06/07/2018	7.15	<0.10	11.4	6.4	6.4	605	339	2	17.8	6.4	4.3	0.00	0.00	0.00	0.00						98.161	98.179	7.77	11.9	8.2	6.2									
06/08/2018	7.03	<0.10	9.8	6.2	2.1	527	113	1	17.2	6.1	4.1	0.00	0.00	0.00	0.00						99.146	97.851	7.79	3.8	11.4	6.2									
06/09/2018	6.97	<0.10	9.6	6.8	2.9	480	145	2	17.4	6.3	4.0	0.00	0.00	0.00	0.00						98.333	97.160	7.75	2.5	59.0	32.0									
06/10/2018	6.99	<0.10	10.8	6.2	4.7	529	230	0	18.1	6.2	3.8	0.00	0.00	0.00	0.00	0.49	24	0.31	15		98.576	96.966	7.77	2.9	8.2	4.8									
06/11/2018	7.11	<0.10	12.6	9.6	6.2	643	316	0	17.7	6.3	4.1	0.00	0.00	0.00	0.00	0.58	30	0.29	15		98.477	97.623	7.79	3.5	6.8	4.8	7.44	24.2	75.4	58.4					
06/12/2018	7.10	0.10	13.4	7.6	6.6	655	323	0	17.5	6.8	6.0	0.00	0.00	0.00	0.00	0.67	33	0.40	20		98.226	97.744	7.83	3.2	6.6	5.4	7.44	25.8	94.0	71.8					
06/13/2018	7.05	0.20	11.6	7.8	5.8	567	283	2	17.6	6.7	14.9	0.00	0.00	0.00	0.00						98.543	98.170	7.80	3.5	8.0	5.8	7.47	45.0	106.0	76.0					
06/14/2018	7.15	<0.10	9.8	4.0	6.5	736	488	13	17.8	6.7	5.1	0.00	0.00	0.00	0.00						98.194	98.178	7.74	5.8	11.6	6.8	7.39	45.3	93.0	61.0					
06/15/2018	6.95	0.10	14.4	8.0	6.7	676	315	13	18.0	5.7	6.7	0.00	0.00	0.00	0.00						95.786	97.662	7.59	5.8	12.2	6.4	7.18	14.4	52.6	35.8					
06/16/2018	7.16	<0.10	11.2	7.8	3.6	519	167	0	18.8	6.7	1.7	0.00	0.00	0.00	0.00						99.045	97.443	7.67	6.0	16.2	9.2	7.21	13.4	53.8	39.4					
06/17/2018	7.16	<0.10	7.4	6.0	5.3	334	239	1	18.8	6.4	1.8	0.00	0.00	0.00	0.00	0.55	25	0.34	15		98.598	97.886	7.84	5.7	6.2	4.8	7.22	6.3	22.0	41.0					
06/18/2018	7.10	<0.10	9.2	5.0	6.0	685	447	0	18.5	6.2	4.6	0.00	0.00	0.00	0.00	0.66	49	0.28	21		98.383	98.627	7.84	4.8	8.4	7.0	7.22	35.7	83.0	64.0					
06/19/2018	7.19	0.10	9.2	7.2	4.8	509	265	1	20.0	6.0	6.9	0.00	0.00	0.00	0.00	0.56	31	0.32	18		98.491	98.321	7.95	5.6	8.0	5.6	7.71	6.0	72.0	44.0					
06/20/2018	7.47	<0.10	9.6	5.8	7.0	488	356	0	19.0	6.5	5.1	0.00	0.00	0.00	0.00						97.935	98.310	7.91	5.6	9.4	6.8									
06/21/2018	7.28	0.10	9.6	5.6	6.1	479	304	8	19.0	6.2	6.2	0.00	0.00	0.00	0.00						98.494	98.523	7.88	5.5	8.6	6.6									
06/22/2018	7.15	<0.10	11.4		6.0	550	290	1	18.7	5.8	4.1	0.00	0.00	0.00	0.00						98.598	98.034	7.85	3.6	10.8										
06/23/2018	7.40	0.10	9.8		3.9	474	189	0	18.6	6.7	2.8	0.00	0.00	0.00	0.00						98.876	98.123	7.78	3.5	9.6										
06/24/2018	7.21	0.10	23.6	12.6	16.7	1,212	858	5	18.0	6.8	2.4	0.00	0.00	0.00	0.00	0.55	28	2.36	121		92.010	95.042	7.83	3.3	8.4	6.0									
06/25/2018	7.18	<0.10	8.0	5.6	3.5	596	261	6	19.1	6.5	3.3	0.00	0.00	0.00	0.00	0.31	23	0.29	22		98.977	98.667	7.84	2.3	7.4	4.0									
06/26/2018	7.32	<0.10	8.2	4.0	3.8	419	194	0	18.7	6.5	2.8	0.00	0.00	0.00	0.00	0.33	17	0.23	12		98.827	98.447	7.83	2.9	7.6	5.2									
06/27/2018	7.18	<0.10	8.0	4.2	3.8	408	194	2	18.8	6.3	2.6	0.00	0.00	0.00	0.00						98.978	98.571	7.83	2.6	6.0	4.6									
06/28/2018	7.10	<0.10	19.0	11.4	17.7	1,908	1,777	8	19.0	6.4	6.3	0.00	0.00	0.00	0.00						91.571	93.015	7.68	2.4	7.2	5.2									
06/29/2018	7.09	<0.10	9.6		3.5	593	216	5	19.0	6.7	2.5	0.00	0.00	0.00	0.00						97.348	97.857	7.53	3.7	7.6										
06/30/2018	6.96	0.00	6.8		3.4	373	186	2	19.4	6.7	2.2	0.00	0.00	0.00	0.00						97.094	98.000	7.52	3.7	9.2										
MMAVG														MMAVG		0.50																			
Min.	6.9	0.00	6	3	2	309	113	0	15.5	5.7	2			0.00	0.00	0.26	13	0.22	11		91.57	93.01	7.5	2.3	3.4	2.4	7.2	6.0	15.2	10.6	50.0	56	<0.50	26.0	<0.20
Max.	7.5	0.20	24	13	18	1908	1777	13	20.0	6.8	15			0.00	0.00	0.67	49	2.36	121		99.15	98.67	8.4	13.8	59.0	32.0	8.2	45.3	106.0	76.0	50.0	56	<0.50	26.0	<0.20
Total																																			
Average	7.1	<0.10	10	6	6	585	339	2	18.1	6.4	4			0.00	0.00	0.46	26	0.47	25		97.89	97.81	7.8	4.4	10.0	6.4	7.5	18.7	54.2	40.7	50.0	56	<0.50	26.0	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
06/01/2018	6,680	6,580	5,470	5,410	9,010	9,920	6.13	6.09	2,880,000	2,419,200	46,658	45,960			3,250	37,043	81	93		7,380		5,910		11,790		0.98		2,592,000		76,167						96
06/02/2018	6,960	7,450	5,660	6,150	10,180	11,200	5.80	5.60	2,903,040	2,376,000	48,614	52,036	4,239	49,930	4,681	50,115	69	77		8,020		6,440		13,260		0.74		2,592,000		82,772						85
06/03/2018	6,320	6,810	5,180	5,580	7,660	10,690	6.50	6.40	2,904,480	2,340,000	44,144	47,566	3,190	49,930	4,469	50,126	87	100		7,720		6,180		12,690		2.70		2,592,000	86,694	79,676						97
06/04/2018	6,440	6,420	5,240	5,150	7,470	10,920	6.69	6.54	2,999,520	2,329,920	44,982	44,842	3,291	49,951	4,596	50,140	82	90		8,070		6,350		13,860		1.22		2,304,000		83,288						79
06/05/2018	6,230	6,620	5,110	5,390	8,560	10,440	6.98	6.85	2,972,160	2,508,480	43,515	46,239					85	91		7,740		6,140		14,190		2.62		2,880,000		79,883			7,088	49,730		81
06/06/2018	6,620	6,690	5,290	5,300	14,080	11,310					46,239	46,728					77	82		7,950		6,160		14,280				2,304,000		82,050			6,599	53,640		69
06/07/2018	7,950	8,100	6,070	7,000	10,620	10,880	0.68	0.26	2,894,400	2,574,720	55,529	56,576	11,166	123,425	5,558	65,165	82	83		7,990		6,310		12,800		2.85		2,880,000		82,463			7,903	70,000		61
06/08/2018	3,400	3,720	2,760	3,000	3,980	10,060	7.86	8.07	2,966,400	2,712,960	23,748	25,983	2,813	31,760	3,357	36,995	74	81		8,070		6,280		13,930		3.55		2,592,000		83,288						67
06/09/2018	7,400	7,400	4,950	6,000	9,660	10,470	4.70	4.56	2,911,680	2,592,000	51,687	51,687	3,547	55,158	4,768	50,906	81	88		7,610		7,150		13,940		6.23		2,448,000		78,541						60
06/10/2018	8,000	7,220	6,130	5,740	10,510	12,470	5.15	4.71	2,982,240	2,763,360	55,878	50,430	3,777	43,086	4,472	43,001	63	76		8,370		6,400		12,890		6.16		2,520,000		86,385			4,878	45,374		57
06/11/2018	7,170	7,500	5,810	6,090	10,360	10,580	4.78	4.01	3,009,600	2,952,000	50,081	52,386	5,259	60,000			93	95		7,660		5,970		12,620		5.01		2,548,800		79,057						80
06/12/2018	7,720	7,750	6,200	6,220	10,680	10,310	5.97	4.73	2,979,360	2,868,480	53,922	54,132	4,760	49,936			88	85		7,290		5,580		12,090		5.09		2,592,000		75,238						96
06/13/2018	7,130	7,050	5,670	5,630	10,240	10,020	6.13	5.53	2,833,920	2,571,840	49,801	49,242	6,437	71,400			86	94		7,250		5,510		11,350		4.98		2,592,000		74,825						76
06/14/2018	5,810	6,200	4,680	5,000	12,070	11,010	4.71	3.51	2,548,800	2,340,000	40,581	43,305	3,112	33,600	6,474	70,501	102	94															6,408	53,028		
06/15/2018	6,220	6,610	4,940	5,340	10,190	10,450	5.28	4.88	2,581,920	2,469,600	43,445	46,169					77	80		7,360		5,570		10,140		6.56		2,592,000		75,961			6,891	67,098		64
06/16/2018	6,760	7,050	5,420	5,590	12,240	8,420	4.17	3.15	2,501,280	2,577,600	47,217	49,242	4,581	49,976	4,768	50,191	78	81		7,200		5,500		10,010		6.42		2,448,000		74,309						61
06/17/2018	6,380	6,730	5,480	5,480	10,680	9,880	5.38	4.54	2,560,320	2,653,920	44,563	47,007	6,600	69,053	3,828	50,163	94	83		6,600		5,270		10,220		6.40		2,304,000		68,117						70
06/18/2018	7,100	7,140	5,650	5,760	10,260	10,340	4.46	3.75	2,851,200	2,865,600	49,592	49,871					78	77		7,040		5,520		9,770		7.63		2,160,000		72,658			5,964	69,970		57
06/19/2018	6,890	7,160	4,730	5,770	11,380	11,320	5.52	10.00	2,524,320	2,589,120	48,125	50,011	4,612	49,959			70	71		6,640		5,100		13,430		6.05		2,160,000		68,530						60
06/20/2018	7,450	7,890	5,140	6,300	11,260	10,460	6.30	9.93	2,534,400	2,560,320	52,036	55,110	6,606	70,000	6,682	70,218	69	65		7,280		5,530		12,010		4.79		2,160,000		75,135			11,087	99,724		56
06/21/2018	7,450	7,630	6,170	6,300	9,920	10,200	6.61	10.00	2,550,240	2,525,760	52,036	53,294	5,929	69,696			67	72		6,610		5,020		9,200		0.69		2,534,400		68,220						55
06/22/2018	5,740	6,320	4,750	5,230	10,350	10,520	6.35	4.02	1,440,000	1,440,000	40,092	44,144	357	4,200	6,720	70,000	77	76		6,810		5,410		10,820		1.19		2,592,000		70,284						66
06/23/2018	5,650	6,380	4,550	5,080	11,430	10,580	5.95	5.73	1,483,200	1,540,800	39,464	44,563			5,086	48,786	74	75		7,190		5,450		12,650		5.76		2,088,000		74,206			4,724	44,776		71
06/24/2018	5,590	6,320	4,510	5,100	10,450	11,980	6.08	5.76	1,477,440	1,522,080	39,045	44,144			4,512	45,157	77	74		6,970		5,390		12,340		6.11		2,066,400		71,936			4,612	44,810		67
06/25/2018	4,930	5,270	3,960	4,310	11,320	10,890	6.71	6.33	1,447,200	1,569,600	34,435	36,810	6,605	69,959			67	70		7,130		5,530		13,960		6.29		2,088,000		73,587						63
06/26/2018	2,950	2,830	2,510	2,630	7,560	2,180	7.73	7.41	1,254,240	1,084,320	20,605	19,767	899	7,993	4,565	53,612	68	78		7,060		5,460		11,850		6.10		2,016,000		72,864						78
06/27/2018	5,010	5,780	4,070	4,760	8,850	10,280	6.47	5.36	1,540,800	1,447,200	34,994	40,372					66	69		7,440		5,760		11,610		6.27		2,016,000		76,786			1,396	12,600		66
06/28/2018	5,770	5,960	4,700	4,890	13,590	12,630	6.92	5.73	1,461,600	1,539,360	40,302	41,629			9,531	90,482	61	65		6,950		5,360		14,090		7.09		2,016,000		71,729			8,251	70,214		60
06/29/2018	5,360	5,760	4,330	4,710	11,160	11,740	5.61	5.42	1,392,480	1,533,600	37,438	40,232					65	66		6,430		4,970		11,120		6.87		2,016,000		66,362						64
06/30/2018	4,670	5,220	3,780	4,260	7,600	12,900	6.28	5.99	1,569,600	1,454,400	32,619	36,460	3,589	56,629			64	63		6,840		5,270		11,450		6.76		1,872,000		70,594						61
MMAVG																																				
Min.	2,950	2,830	2,510	2,630	3,980	2,180	1	0	1,254,240	1,084,320	20,605	19,767	357	4,200	3,250	36,995	61	63		6,430		4,970		9,200		1		1,872,000		66,362			1,396	12,600		55
Max.	8,000	8,100	6,200	7,000	14,080	12,900	8	10	3,009,600	2,952,000	55,878	56,576	11,166	123,425	9,531	90,482	102	100		8,370		7,150		14,280		8		2,880,000		86,385			11,087	99,724		97
Total									68,955,840	64,722,240	1,311,387	1,365,937	91,369	1,065,641	87,317	932,601												68,565,600		2,194,911			75,801	680,964		
Average	6,258	6,519	4,964	5,306	10,111	10,502	6	6	2,377,788	2,231,801	43,713	45,531	4,568	53,282	5,136	54,859	77	80		7,333		5,741		12,219		5		2,364,331		75,687			6,317	56,747		70

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
07/01/2018	6.35	8.68	3.17	0.00	0.288	0.000	12,344		72.0	18.2	7.49	405	198	21,448	10,486		7.55	7.0	159	132	159	8,420	8,420		
07/02/2018	6.35	8.82	2.73	0.00	0.290	0.000	44,787		85.0	18.6	7.39	417	390	22,084	20,654		7.47	4.0	151	134	201	7,997	10,645		
07/03/2018	6.33	8.62	3.05	0.00	0.294	0.000	42,191		92.0	18.4	7.46	204	540	10,770	28,508		7.42	4.0	181	155	204	9,555	10,770		
07/04/2018	5.70	7.87	2.68	0.00	0.282	0.000	20,966		75.0	18.8	7.40	330	302	15,688	14,356		7.39	10.0	312	263	240	14,832	11,409		
07/05/2018	5.96	8.57	2.66	0.00	0.286	0.000	54,716		88.0	20.2	7.39	690	548	34,297	27,239		7.47	7.0	234	211	258	11,631	12,824		
07/06/2018	6.19	16.46	2.79	0.10	0.305	0.000	15,601		76.0	19.1	7.38	315	378	16,262	19,514		7.27	7.0	216	181	284	11,151	14,661		
07/07/2018	5.43	8.76	2.71	0.00	0.281	0.000	14,170		51.0	19.8	7.31	330	362	14,944	16,394		7.15	10.0	279	231	296	12,635	13,405		
07/08/2018	5.58	9.85	2.49	0.00	0.281	0.000	7,514		62.0	19.1	7.49	294	352	13,682	16,381		7.63	6.0	229	181	305	10,657	14,194		
07/09/2018	5.67	10.72	2.30	0.00	0.289	0.000	55,641		65.0	19.2	7.64	375	580	17,733	27,427		7.59	4.5	158	119	228	7,471	10,782		
07/10/2018	5.69	8.35	2.46	0.00	0.291	0.000	57,060		70.0	19.5	7.66	467	596	22,161	28,283		7.51	4.5	302	240	335	14,331	15,897		
07/11/2018	5.46	9.09	2.59	0.00	0.299	0.000	69,790		70.0	19.6	7.71	410	870	18,670	39,617		7.57	4.0	284	226	351	12,932	15,983		
07/12/2018	5.32	7.88	2.56	0.00	0.293	0.000	49,742		68.0	19.9	7.71	360	670	15,973	29,727		7.63	1.1	170	129	240	7,543	10,649		
07/13/2018	5.24	9.06	2.05	0.00	0.289	0.000	43,872		70.0	20.2	7.01	204	472	8,915	20,627		6.96	5.0	178	136	228	7,779	9,964		
07/14/2018	5.09	8.68	2.46	0.00	0.284	0.000	14,470		68.0	19.9	7.10	258	346	10,952	14,688		6.95	3.0	184	141	245	7,811	10,400		
07/15/2018	5.29	9.35	2.14	0.20	0.281	0.000			72.0	19.8	7.70	306	428	13,500	18,883		7.60	4.5	254	205	345	11,206	15,221		
07/16/2018	5.19	8.87	2.08	0.00	0.284	0.000	62,137		71.0	19.9	7.68	336	590	14,544	25,538		7.67	7.5	356	301	408	15,409	17,660		
07/17/2018	8.92	27.24	2.70	1.20	0.292	0.639	28,916		72.0	20.0	7.66	324	436	24,103	32,435		7.63	7.0	295	225	314	21,946	23,359		
07/18/2018	5.75	9.12		0.00	0.289	0.000	90,650		64.0	20.6	7.70	368	536	17,647	25,704		7.61	4.0	222	179	342	10,646	16,401		
07/19/2018	5.45	9.22	2.49	0.00	0.281	0.000	39,254		62.0	20.4	7.67	299	524	13,590	23,817		7.56	2.5	202	151	258	9,182	11,727		
07/20/2018	5.35	9.53	2.39	0.00	0.288	0.000	43,163		63.0	20.4	7.39	173	690	7,719	30,787		7.28	5.5	247	195	251	11,021	11,199		
07/21/2018	5.02	8.26	2.15	0.00	0.287	0.000	7,476		72.0	20.4	7.28	113	590	4,731	24,701		7.29	5.5	150	113	134	6,280	5,610		
07/22/2018	7.29	22.72	2.52	0.50	0.280	0.227	4,145		66.0	20.5	7.50	363	502	22,070	30,521		7.47	2.5	171	136	215	10,397	13,072		
07/23/2018	6.06	9.43	2.68	0.14	0.291	0.000	29,854		67.0	20.4	7.31	1065	776	53,826	39,219		7.26	2.0	187	143	348	9,451	17,588		
07/24/2018	5.74	9.83	2.68	0.00	0.305	0.000	59,242		82.0	21.4	7.53	353	574	16,899	27,478		7.45	2.5	200	168	324	9,574	15,510		
07/25/2018	6.41	19.89	3.32	0.40	0.263	0.773	48,892		70.0	21.1	7.64	422	782	22,560	41,805		7.48	5.0	292	226	380	15,610	20,315		
07/26/2018	8.03	22.36	2.68	0.20	0.283	0.154	45,991		71.0	21.2	7.39	306	451	20,493	30,204		7.46	4.5	234	198	342	15,671	22,904		
07/27/2018	7.45	24.28		0.20	0.274	0.436	57,748		66.0	20.7	7.58	417	542	25,909	33,676		7.32	5.0	230		311	14,291	19,323		
07/28/2018	7.02	11.65	3.44	0.20	0.280	0.000	3,889		68.0	20.9	7.57	267	316	15,632	18,501		7.30	5.0	227		287	13,290	16,803		
07/29/2018	6.25	9.64	2.96	0.00	0.279	0.000	8,455		71.0	20.3	7.47	305	312	15,898	16,263		7.38	3.0	148	120	195	7,715	10,164		
07/30/2018	6.11	10.02	2.86	0.00	0.278	0.000	80,006		65.0	20.3	7.44	446	494	22,727	25,173		7.35	2.8	173	137	375	8,816	19,109		
07/31/2018	5.95	9.44	2.53	0.00	0.281	0.000	80,775		70.0	20.6	7.46	441	588	21,884	29,178		7.22	4.0	206	163	329	10,222	16,326		
MMAVG	8.09																								
Min.	5.0	7.9	2.1	0.0		0.000	3,889		51.0	18.2	7.01	113	198	4,731	10,486		6.95	1.1	148	113	134	6280	5610		
Max.	8.9	27.2	3.4	1.2		0.773	90,650		92.0	21.4	7.71	1065	870	53,826	41,805		7.67	10.0	356	301	408	21946	23359		
Total	187.6	362.3	76.3	3.1		2.229	1,193,457																		
Average	6.1	11.7	2.6	0.1		0.072	39,782		70.45	19.98	7.49	367	508	18623	25412		7.42	4.8	220	177	282	11144	14268		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
07/01/2018	6.97	0.00	2.6	0.6	3.9	138	207	0	19.3	6.6	1.8	0.00	0.00	0.00	0.00	0.49	26	0.53	28		99.037	98.687	7.51	3.5	6.4	5.0									
07/02/2018	7.00	<0.10	4.8	4.2	3.4	254	180	6	19.6	6.5	1.9	0.00	0.00	0.00	0.00	0.42	22	0.13	7		99.185	98.769	7.53	4.2	4.8	4.8									
07/03/2018	6.88	<0.10	7.0	5.8	4.0	370	211	0	20.3	6.0	1.8	0.00	0.00	0.00	0.00						98.039	98.704													
07/04/2018	6.97	0.00	5.8	5.0	4.2	276	200	1	20.3	6.0	4.1	0.00	0.00	0.00	0.00	0.44	21	0.15	7		98.727	98.079													
07/05/2018	6.91	<0.10	2.4	5.0	4.1	119	204	1	20.5	6.1	2.5	0.00	0.00	0.00	0.00						99.406	99.562	7.54	5.3	4.6	4.4									
07/06/2018	9.96	<0.10	8.2	6.4	3.3	423	170	1	20.6	5.9	2.3	0.00	0.00	0.00	0.00						98.952	97.831	8.13	3.0	8.6	7.0									
07/07/2018	6.97	<0.10	5.4	4.2	3.3	245	149	0	20.0	6.6	2.4	0.00	0.00	0.00	0.00						99.000	98.508	8.33	3.8	7.0	6.8									
07/08/2018	6.89	<0.10	6.2	4.0	4.3	289	200	0	19.8	6.6	2.7	0.00	0.00	0.00	0.00	0.44	20	0.39	18		98.537	98.239	7.60	4.1	9.6	6.0									
07/09/2018	7.00	<0.10	7.4	3.4	5.9	350	279	1	20.2	6.5	4.3	0.00	0.00	0.00	0.00	0.48	23	0.38	18		98.427	98.724	7.65	5.1	8.6	5.8									
07/10/2018	6.99	<0.10	10.0	6.4	5.5	475	261	0	20.8	6.0	5.2	0.00	0.00	0.00	0.00	0.56	27	0.25	12		98.822	98.322	7.67	5.2	10.8	6.6									
07/11/2018	7.15	<0.10	8.4	6.0	5.7	383	260	4	21.0	5.9	3.9	0.00	0.00	0.00	0.00						98.610	99.034	7.79	5.6	11.4	8.0					60.00	<50.00	<0.50	23.00	<0.20
07/12/2018	7.20	<0.10	10.4	6.4	4.8	461	213	8	20.9	5.8	8.9	0.00	0.00	0.00	0.00						98.667	98.448	7.79	7.2	13.6	9.0									
07/13/2018	7.17	<0.10	16.8	12.6	8.8	734	385	4	20.8	5.4	5.9	0.00	0.00	0.00	0.00						95.686	96.441	6.98	8.0	14.2	10.0									
07/14/2018	6.90	<0.10	11.0	6.8	3.2	467	136	0	21.7	6.4	5.0	0.00	0.00	0.00	0.00						98.760	96.821	6.98	8.8	16.2	11.2									
07/15/2018	6.91	<0.10	12.0	8.4	6.4	529	282	200	21.8	6.5	4.6	0.00	0.00	0.00	0.00	0.70	31	0.26	11		97.908	97.196	7.75	8.4	14.2	12.4									
07/16/2018	7.15	<0.10	8.6	5.6	6.5	372	281	7	21.2	6.1	5.8	0.00	0.00	0.00	0.00	0.70	30	0.22	10		98.065	98.542	7.81	6.9	11.0	10.2									
07/17/2018	7.14	<0.10	27.6	17.8	27.0	2,053	2,009	5	21.6	5.9	5.4	0.00	0.00	0.00	0.00	1.00	74	2.25	167		91.667	93.670	7.82	8.7	16.0	13.0									
07/18/2018	7.25	<0.10	9.0	5.2	7.2	432	345	3	21.9	5.8	7.4	0.00	0.00	0.00	0.00						98.043	98.321	7.78	6.4	13.0	11.0									
07/19/2018	7.28	<0.10	9.6	6.6	5.2	436	236	21	21.6	6.1	6.1	0.00	0.00	0.00	0.00						98.261	98.168	7.81	4.5	12.8	9.6									
07/20/2018	7.13	0.10	9.6	7.2	4.9	428	219	18	21.6	5.0	5.3	0.00	0.00	0.00	0.00						97.168	98.609	7.62	6.7	12.6	9.2									
07/21/2018	7.20	0.10	12.4	9.2	3.6	519	151	13	20.6	6.7	2.7	0.00	0.00	0.00	0.00						96.814	97.898	7.63	6.2	16.0	11.0									
07/22/2018	7.16	0.10	17.6	10.6	3.0	1,070	182	3	20.8	6.6	2.3	0.00	0.00	0.00	0.00	0.73	44	0.91	55		99.174	96.494	7.67	6.7	10.0	8.8									
07/23/2018	6.96	<0.10	9.8	6.8	3.6	495	182	10	21.0	6.0	4.5	0.00	0.00	0.00	0.00	0.61	31	0.14	7		99.662	98.737	7.52	5.6	11.0	8.2									
07/24/2018	7.03	<0.10	9.2	7.6	5.0	440	239	1	21.3	6.1	2.4	0.00	0.00	0.00	0.00	0.50	24	0.32	15		98.584	98.397	7.76	4.6	12.0	9.8									
07/25/2018	7.20	0.10	8.6	5.8	7.6	460	406	10	22.4	6.1	6.3	0.00	0.00	0.00	0.00						98.199	98.900	7.79	6.0	8.4	6.6									
07/26/2018	7.11	0.10	12.2	8.4	10.5	817	703	12	22.6	5.2	4.4	0.00	0.00	0.00	0.00						96.569	97.295	7.80	5.6	7.6	5.6									
07/27/2018	7.14	<0.10	23.2		14.4	1,441	895	40	22.4	6.0	2.8	0.00	0.00	0.00	0.00						96.547	95.720	7.68	4.4	11.6									
07/28/2018	7.10	<0.10	10.0		3.1	585	181	1	21.8	6.6	2.4	0.00	0.00	0.00	0.00						98.839	96.835	7.60	3.1	10.2									
07/29/2018	7.04	<0.10	7.6	5.8	2.0	396	104	6	21.4	6.7	1.9	0.00	0.00	0.00	0.00	0.33	17	0.32	17		99.344	97.564	7.43	2.5	9.4	7.4									
07/30/2018	6.83	0.10	10.2	7.6	2.4	520	122	6	22.2	6.6	2.0	0.00	0.00	0.00	0.00	0.55	28	0.32	16		99.462	97.935	7.36	3.5	10.8	7.6									
07/31/2018	6.87	0.10	10.8		5.2	536	258	12	21.2	6.1	1.5	0.00	0.00	0.00	0.00	0.79	39				98.821	98.163	7.49	6.3	12.2	8.4									
MMAVG														MMAVG		0.50																			
Min.	6.8	0.00	2	1	2	119	104	0	19.3	5.0	2			0.00	0.00	0.33	17	0.13	7		91.67	93.67	7.0	2.5	4.6	4.4					60.0	<50	<0.50	23.0	<0.20
Max.	10.0	0.10	28	18	27	2053	2009	200	22.6	6.7	9			0.00	0.00	1.00	74	2.25	167		99.66	99.56	8.3	8.8	16.2	13.0					60.0	<50	<0.50	23.0	<0.20
Total																																			
Average	7.1	<0.09	10	7	6	533	318	4	21.1	6.1	4			0.00	0.00	0.58	31	0.47	28		98.16	97.89	7.6	5.5	10.8	8.3					60.0	<50	<0.50	23.0	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
07/01/2018	5,870	6,330	4,750	5,150	12,490	11,120	5.33	4.87	1,634,400	1,465,920	41,000	44,213			5,400	50,188	68	66		6,830		5,300		11,140		6.77		1,584,000		70,491						73
07/02/2018	5,610	6,140	4,880	4,670	11,250	11,740	5.27	4.58	1,677,600	1,418,400	39,184	42,886	4,528	48,261			71	70		6,900		5,620		12,000		6.62		2,880,000		71,213			4,645	50,000		70
07/03/2018	6,630	7,310	5,420	5,950	9,840	13,040	4.60	3.81	2,088,000	1,627,200	46,309	51,059	4,472	48,699			60	62		6,900		5,470		13,250		6.51		1,872,000	86,694	71,213						64
07/04/2018	6,320	6,440	5,050	5,030	10,610	11,870	4.14	3.46	2,044,800	1,908,000	44,144	44,982			5,658	50,122	62	68		6,860		5,180		11,310		6.27		1,886,400		70,800						67
07/05/2018	6,810	7,080	5,520	5,760	9,890	11,110			1,980,000	1,596,960	47,566	49,452					71	64		7,470		5,850		11,850				2,880,000		77,096			5,201	49,965		54
07/06/2018	6,660	7,000	5,350	5,610	9,270	11,500	3.46	2.72	1,582,560	1,578,240	46,518	48,893	5,558	50,010			60	67		7,220		5,580		11,550		5.82		2,044,800		74,516						69
07/07/2018	6,600	7,170	5,310	5,800	11,650	12,470	3.80	3.50	1,487,520	1,594,080	46,099	50,081			5,215	50,146	58	61		7,520		5,740		11,050		5.80		2,016,000		77,612						59
07/08/2018	6,740	7,160	5,350	5,740	11,140	11,450	4.00	3.80	1,458,720	1,632,960	47,077	50,011					59	50		7,430		5,640		11,850		5.60		2,160,000		76,683			4,402	44,537		58
07/09/2018	7,120	7,400	5,740	5,810	13,640	12,210	3.61	3.22	1,448,640	1,640,160	49,731	51,687	4,196	45,167			53	55		7,250		5,530		11,400		5.49		2,160,000		74,825			541	5,475		63
07/10/2018	7,670	7,470	6,050	5,820	12,350	11,800	2.98	2.67	1,428,480	1,641,600	53,573	52,176	5,100	46,593	4,713	45,118	50	56		7,120		5,440		11,230		5.19		2,160,000		73,484						63
07/11/2018	6,450	6,840	5,000	5,290	11,760	10,940	4.49	4.50	1,419,840	1,297,440	45,052	47,776			6,401	70,159	53	54		7,390		5,550		11,090		4.90		2,592,000		76,270			6,607	71,434		62
07/12/2018	7,060	6,920	5,540	5,300	11,430	14,340	4.37	4.66	1,444,320	1,281,600	49,312	48,334			8,262	70,706	50	55		7,920		5,950		11,420		5.10		2,592,000		81,740			7,100	69,897		61
07/13/2018	6,450	6,780	5,000	5,440	11,390	11,660	4.55	4.35	1,425,600	1,310,400	45,052	47,357	5,974	62,884	7,909	70,245	54	56		6,700		5,030		9,760		5.30		2,160,000		69,149						67
07/14/2018	6,740	7,030	5,230	5,360	10,710	13,500	5.54	5.40	1,464,480	1,425,600	47,077	49,103	368	3,600	7,881	70,000	50	48		6,930		5,150		10,110		5.64		2,160,000		71,523						49
07/15/2018	7,590	6,940	6,140	5,470	11,090	13,050	5.55	5.27	1,435,680	1,280,160	53,014	48,474					42	49		7,080		5,530		10,610		5.60		2,160,000		73,071			4,460	50,400		62
07/16/2018	6,940	7,050	5,280	5,540	8,610	12,150	8.80	5.29	2,064,960	1,300,320	48,474	49,242	4,732	57,600			48	50		9,670		7,370		10,230		6.60		2,160,000		99,802			3,135	28,800		46
07/17/2018	6,550	6,560	4,980	5,120	9,770	12,760	4.91	4.84	1,429,920	1,468,800	45,750	45,820	7,139	99,415			52	53		7,030		5,480		10,700		5.34		2,160,000		72,555			1,118	12,528		54
07/18/2018	5,280	5,980	4,850	4,680	11,110	11,930	5.10	4.90	1,235,520	1,391,040	36,879	41,769			4,992	50,219	57	50		6,880		5,180		12,500		4.80		2,160,000		71,007			2,082	23,328		52
07/19/2018	6,690	7,280	5,230	5,600	11,610	13,190	4.91	4.67	1,334,880	1,440,000	46,728	50,849	2,797	24,990	2,309	24,985	52	52		7,320		5,510		10,840		5.08		2,880,000		75,548			2,615	25,086		62
07/20/2018	7,020	7,210	5,390	5,500	13,130	13,460	5.48	5.04	1,427,040	1,283,040	49,033	50,360	2,828	24,986	2,816	25,087	46	51		7,350		5,630		12,760		5.86		2,160,000		75,858			3,768	25,440		64
07/21/2018	6,330	6,870	4,170	4,540	11,890	8,870	5.85	5.14	1,224,000	1,380,960	44,213	47,985	2,478	24,988	2,459	25,083	47	47		7,160		4,730		11,200				2,736,000		73,897			2,569	25,122		62
07/22/2018	6,190	6,620	4,710	5,060	11,410	13,210	5.61	4.71	1,298,880	1,382,400	43,236	46,239	2,427	24,984	2,764	25,084	49	50		6,950		5,170		10,460		5.78		2,160,000		71,729			2,177	24,955		62
07/23/2018	6,130	6,790	4,720	5,180	10,200	13,770	6.57	4.98	1,440,000	1,440,000	42,817	47,426	2,379	25,000	2,756	25,079	49	44		7,010		5,330		11,210		5.84		2,160,000		72,348			2,462	27,244		63
07/24/2018	6,980	7,150	5,500	5,420	12,220	10,490	5.74	4.71	1,411,200	1,425,600	48,754	49,941	2,707	24,978	2,277	23,666	43	46		7,590		5,840		11,220		5.57		2,880,000		78,334			2,557	25,081		51
07/25/2018	6,800	4,780	5,210	4,010	12,670	11,910	5.10	4.22	1,432,800	1,454,400	47,496	33,387			3,468	32,400	44	69		6,670		5,350		11,090		5.80		2,304,000		68,839						59
07/26/2018	6,800	6,790	5,340	5,220	13,180	13,520	4.85	5.76	1,454,400	1,468,800	47,496	47,426			9,850	86,978	40	44		7,110		5,410		16,400		5.29		2,592,000		73,381			7,169	59,198		55
07/27/2018	6,910	7,550	5,320	5,820	13,630	13,790	4.97	4.47	1,440,000	1,425,600	48,265	52,735	6,792	59,400	3,166	28,800	43	46		7,460		5,640		13,000		4.82				76,993			3,711	27,131		56
07/28/2018	5,760	5,970	4,370	4,530	12,960	11,010	6.57	5.58	1,468,800	1,445,760	40,232	41,699	4,199	48,077	3,303	35,971	49	50		7,030		5,310		12,150		4.99		2,448,000		72,555			3,655	36,071		54
07/29/2018	6,120	6,660	4,650	5,060	11,210	10,790	6.27	5.19	1,483,200	1,473,120	42,747	46,518	3,543	34,788	3,283	36,113	49	50		7,010		5,190		11,480		5.11		2,448,000		72,348			3,541	35,932		61
07/30/2018	5,830	6,520	4,350	4,860	11,790	12,840	6.76	5.17	1,540,800	1,447,200	40,721	45,541	3,498	36,474	3,834	35,803	50	51		7,150		5,240		12,190		5.66		2,520,000		73,793			3,666	36,064		60
07/31/2018	6,170	6,670	4,760	5,200	11,650	9,350	4.19	4.12	14,155,200	1,483,200	43,096	46,588					49	51		6,960		5,300		12,730		4.93		2,520,000		71,832			6,535	60,788		65
MMAVG																																				
Min.	5,280	4,780	4,170	4,010	8,610	8,870	3	3	1,224,000	1,280,160	36,879	33,387	368	3,600	2,277	23,666	40	44		6,670		4,730		9,760		5		1,584,000		68,839			541	5,475		46
Max.	7,670	7,550	6,140	5,950	13,640	14,340	9	6	14,155,200	1,908,000	53,573	52,735	7,139	99,415	9,850	86,978	71	70		9,670		7,370		16,400		7		2,880,000		99,802			7,169	71,434		73
Total									59,862,240	45,408,960	1,416,645	1,470,009	75,715	790,894	98,716	931,952												69,595,200		2,310,505			83,716	814,476		
Average	6,543	6,789	5,134	5,275	11,469	12,092	5	5	1,931,040	1,464,805	45,698	47,420	3,985	41,626	4,701	44,379	52	54		7,222		5,492		11,606		6		2,319,840		74,532			3,805	37,022		60

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
08/01/2018	6.05	9.91	2.77	0.00	0.281	0.000	88,876		75.0		7.44	495	3048	24,976	153,793		7.16	5.5	234	204	393	11,807	19,830		
08/02/2018	5.97	9.41	2.75	0.20	0.289	0.000	54,496		77.0	21.6	7.44	213	592	10,605	29,476		7.12	5.0	221	180	329	11,004	16,381		
08/03/2018	6.31	19.14	2.86	0.32	0.262	0.000	70,244		75.0	21.2	7.37	168	492	8,841	25,892		7.14	4.0	237		255	12,472	13,419		
08/04/2018	8.32	28.81	2.71	1.33	0.275	0.001	8,326		73.0	21.0	7.54	164	286	11,380	19,845		7.38	2.0	160		224	11,102	15,543		
08/05/2018	6.13	8.38	3.44	0.00	0.278	0.000	3,894		68.0	20.9	7.61	296	302	15,133	15,440		7.64	1.5	135	103	276	6,902	14,110		
08/06/2018	6.18	9.77	0.00	0.00	0.280	0.000	62,465		70.0	21.3	7.66	399	604	20,565	31,131		7.64	1.5	136	107	225	7,010	11,597		
08/07/2018	7.29	25.09	0.00	0.50	0.276	0.070	70,699		71.0	21.3	7.60	372	624	22,617	37,938		7.43	4.0	234	188	318	14,227	19,334		
08/08/2018	6.56	13.83	3.25	0.50	0.277	0.000	41,598		73.0	21.6	7.63	387	568	21,173	31,076		7.41	4.0	251	193	365	13,732	19,969		
08/09/2018	6.29	9.71	3.17	0.00	0.278	0.000	40,318		74.0	22.1	7.64	404	530	21,193	27,803		7.48	4.5	220	177	306	11,541	16,052		
08/10/2018	5.91	10.58	2.79	0.00	0.279	0.000	46,727		70.0	21.8	7.57	377	528	18,582	26,025		7.37	15.0	337	251	334	16,611	16,463		
08/11/2018	10.39	33.62	3.48	2.33	0.285	1.803	6,272		67.0	22.0	7.68	306	318	26,516	27,556		7.48	13.5	339	259	252	29,375	21,836		
08/12/2018	12.54	13.01	5.94	0.01	0.279	0.000	1,985		66.0	21.8	7.71	161	254	16,838	26,564		7.77	1.1	116	92	116	12,132	12,132		
08/13/2018	9.99	29.87	6.36	0.80	0.248	0.392	36,753		67.0	21.2	7.63	218	392	18,163	32,660		7.66	2.5	154	111	161	12,831	13,414		
08/14/2018	15.13	33.31	7.83	2.20	0.258	0.701	33,772		64.0	20.8	7.65	173	252	21,830	31,798		7.70	3.5	181	138	141	22,839	17,792		
08/15/2018	11.58	14.68	6.83	0.00	0.256	0.000	61,432		62.0	20.9	7.58	227	376	21,923	36,313		7.64	2.0	122	95	132	11,782	12,748		
08/16/2018	9.87	12.81	5.87	0.00	0.270	0.000	95,047		68.0	20.7	7.59	222	420	18,274	34,573		7.56	2.6	156	122	162	12,841	13,335		
08/17/2018	9.61	18.49	5.07	0.80	0.243	0.000	83,288		67.0	20.8	7.52	207	430	16,591	34,463		7.55	2.2	202	158	129	16,190	10,339		
08/18/2018	10.70	18.99	6.26	0.30	0.262	0.000	10,552		68.0	20.8	6.58	144	362	12,850	32,304		7.42	3.0	176	137	153	15,706	13,653		
08/19/2018	9.34	12.68	5.42	0.00	0.319	0.000	3,569		70.0	20.9	7.53	183	244	14,255	19,007		7.60	1.7	126	100	137	9,815	10,672		
08/20/2018	8.76	12.68	4.98	0.00	0.208	0.000	53,239		63.0	21.8	7.61	306	436	22,356	31,853		7.56	3.2	147	128	189	10,740	13,808		
08/21/2018	8.30	11.15	0.00	0.10	0.287	0.000	47,209		62.0	20.8	7.56	360	496	24,920	34,334		7.61	10.0	348	278	323	24,089	22,359		
08/22/2018	11.20	30.35	7.04	0.70	0.259	0.759			59.0	21.0	7.60	227	342	21,204	31,946		7.52	4.5	210	174	224	19,616	20,923		
08/23/2018	8.92	11.65	4.99	0.00	0.276	0.000	55,810		56.0	20.6	7.60	264	406	19,640	30,203		7.56	3.0	135	112	174	10,043	12,944		
08/24/2018	8.40	11.87	4.56	0.00	0.273	0.000	29,816		67.0	20.8	7.57	206	402	14,432	28,163		7.20	6.0	216	171	128	15,132	8,967		
08/25/2018	7.85	10.74	4.46	0.00	0.268	0.000	2,659		78.0	20.7	7.44	69	163	4,517	10,671		7.18	9.0	143	111	129	9,362	8,446		
08/26/2018	7.80	11.00	4.26	0.00	0.271	0.000	4,112		75.0	20.4	7.60	224	336	14,572	21,857		7.65	4.0	187	143	189	12,165	12,295		
08/27/2018	7.60	10.66	3.84	0.00	0.281	0.000	54,555		68.0	21.2							7.56	5.5	231	188	273	14,642	17,304		
08/28/2018	7.33	9.97	3.35	0.00	0.251	0.000	61,103		69.0	20.8	7.56	300	498	18,340	30,444		7.43	9.5	303	251	294	18,523	17,973		
08/29/2018	6.89	10.42	3.64	0.00	0.274	0.000	23,333		72.0	21.2	7.44	389	434	22,353	24,939		7.03	12.0	301	257	353	17,296	20,284		
08/30/2018	6.74	11.23	3.31	0.00	0.281	0.000			81.0	22.1	7.67	365	482	20,517	27,094		7.17	2.0	151	127	309	8,488	17,369		
08/31/2018	6.56	10.93	3.22	0.00	0.271	0.000	44,728		72.0	22.4	7.43	465	606	25,440	33,155		7.02	9.0	303		387	16,577	21,173		
MMAVG	8.30																								
Min.	5.9	8.4	0.0	0.0		0.000	1,985		56.0	20.4	6.58	69	163	4,517	10,671		7.02	1.1	116	92	116	6902	8446		
Max.	15.1	33.6	7.8	2.3		1.803	95,047		81.0	22.4	7.71	495	3048	26,516	153,793		7.77	15.0	348	278	393	29375	22359		
Total	260.5	484.7	124.5	10.1		3.726	1,196,877																		
Average	8.4	15.6	4.0	0.3		0.120	41,272		69.26	21.22	7.54	276	507	18353	32610		7.44	5.1	207	163	238	14084	15563		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
08/01/2018	7.04	0.10	8.2	7.4	2.9	414	146	1	21.1	6.3	1.5	0.00	0.00	0.00	0.00						99.414	99.731	7.50	5.0	10.2	8.6									
08/02/2018	6.96	0.10	7.2	5.6	4.2	358	209	6	22.2	6.4	2.8	0.00	0.00	0.00	0.00						98.028	98.784	7.48	4.5	9.0	6.6									
08/03/2018	6.85	0.00	10.8		3.5	568	184	0	21.6	5.9	2.5	0.00	0.00	0.00	0.00						97.917	97.805	7.53	3.2	9.2										
08/04/2018	6.95	0.00	16.2		10.5	1,124	729	0	21.4	6.0	2.4	0.00	0.00	0.00	0.00						93.598	94.336	7.49	3.9	9.4										
08/05/2018	6.86	0.00	6.4	3.4	4.3	327	220	0	21.4	6.3	3.4	0.00	0.00	0.00	0.00	0.36	18	0.43	22		98.547	97.881	7.62	3.4	7.0	5.8									
08/06/2018	6.89	<0.10	6.6	1.8	3.3	340	170	7	22.2	6.3	3.3	0.00	0.00	0.00	0.00	0.46	24	0.42	22		99.173	98.907	7.77	3.8	9.8	6.6									
08/07/2018	7.02	0.10	10.6	6.0	3.9	644	237	1	22.5	6.0	4.4	0.00	0.00	0.00	0.00	0.50	30	0.32	19		98.952	98.301													
08/08/2018	7.17	0.10	8.8	4.8	6.8	481	372	9	22.8	5.9	5.3	0.00	0.00	0.00	0.00						98.243	98.451	7.81	4.3	12.2	7.0					36.00	<50.00	<0.50	16.00	<0.20
08/09/2018	7.26	<0.10	9.4	5.2	4.9	493	257	9	23.0	5.7	3.7	0.00	0.00	0.00	0.00						98.787	98.226	7.84	3.7	10.4	7.0									
08/10/2018	7.13	0.10	8.4	5.0	4.1	414	202	80	22.9	5.2	3.8	0.00	0.00	0.00	0.00						98.912	98.409	8.25	3.4	9.4	6.2									
08/11/2018	7.03	<0.10	51.2	36.8	36.0	4,437	3,119	0	22.2	6.1	2.2	0.00	0.00	0.00	0.00						88.235	83.899	8.32	3.9	12.8	9.2									
08/12/2018	6.87	0.20	12.2	8.2	4.7	1,276	492	9200	21.5	6.8	8.0	0.00	0.00	0.00	0.00	0.31	32	0.21	22		97.081	95.197	7.68	2.6	11.0	7.0									
08/13/2018	7.07	0.10	15.8	9.0	9.0	1,316	750	107	21.4	6.2	3.7	0.00	0.00	0.00	0.00	0.32	27	0.77	64		95.872	95.969	7.68	2.8	11.4	5.6									
08/14/2018	7.01	0.10	55.0	35.4	21.3	6,940	2,688	34	21.6	5.0	4.2	0.00	0.00	0.00	0.00	1.00	126	1.24	156		87.688	78.175	7.81	2.6	10.0	6.6									
08/15/2018	7.11	0.20	9.0	5.6	3.6	869	348	13	21.4	5.5	3.8	0.00	0.00	0.00	0.00						98.414	97.606	7.57	2.3	8.2	5.2									
08/16/2018	7.18	0.10	8.6	4.4	3.8	708	313	42	21.6	5.9	3.8	0.00	0.00	0.00	0.00						98.288	97.952	7.70	2.7	9.0	5.2									
08/17/2018	7.18	0.20	15.4	9.0	2.0	1,234	160	20	21.9	5.0	4.2	0.00	0.00	0.00	0.00						99.034	96.419	7.64	2.0	14.8	8.2									
08/18/2018	6.76	0.10	61.0	48.0	2.8	5,444	250	8	22.5	6.4	4.3	0.00	0.00	0.00	0.00						98.056	83.149	7.40	2.3	57.0	36.0									
08/19/2018	6.78	0.00	8.0	2.6	3.1	623	241	25	22.1	6.5	4.0	0.00	0.00	0.00	0.00	0.16	12	0.27	21		98.306	96.721	7.70	3.9	7.6	2.6									
08/20/2018	7.12	<0.10	9.0	5.6	3.3	658	241	7	21.5	6.5	4.5	0.00	0.00	0.00	0.00	0.13	9	0.35	26		98.922	97.936	7.71	4.1	11.0	8.2									
08/21/2018	7.19	<0.10	9.2	4.6	4.1	637	284	13	21.5	6.2	3.8	0.00	0.00	0.00	0.00	0.18	12	0.19	13		98.861	98.145	7.77	3.8	10.6	6.4									
08/22/2018	7.16	0.20	25.4	18.4	17.4	2,373	1,625	25	21.4	6.0	8.1	0.00	0.00	0.00	0.00						92.335	92.573	7.75	3.9	12.4	8.0									
08/23/2018	7.17	0.10	9.4	5.2	5.1	699	379	23	21.3	5.8	3.8	0.00	0.00	0.00	0.00						98.068	97.685	7.72	4.0	9.8	7.2									
08/24/2018	6.97	0.20	11.0	76.4	3.2	771	224	10	20.9	6.0	3.2	0.00	0.00	0.00	0.00						98.447	97.264	7.00	3.2	13.0	8.6									
08/25/2018	6.98	<0.10	10.6	6.2	2.8	694	183	1	21.4	6.7	1.7	0.00	0.00	0.00	0.00						95.942	93.497	7.56	4.3	11.4	7.0									
08/26/2018	6.89	0.01	9.6	5.8	3.0	624	195	0	22.4	6.6	1.1	0.00	0.00	0.00	0.00	0.09	6	0.58	38		98.661	97.143	7.69	3.3	10.4	6.2									
08/27/2018	7.08	0.10	7.8	4.0	5.5	494	349	0	21.8	6.5	3.0	0.00	0.00	0.00	0.00	0.19	12	0.55	35				7.78	4.2	10.4	6.4									
08/28/2018	7.07	<0.10	9.0	5.0	4.3	550	263	1	22.2	6.2	3.1	0.00	0.00	0.00	0.00	0.18	11	0.42	26		98.567	98.193	7.78	4.9	14.2	10.8									
08/29/2018	6.91	<0.10	10.6	9.6	5.1	609	293	1	22.4	5.5	3.4	0.00	0.00	0.00	0.00						98.689	97.558	7.55	4.7	10.2	8.8									
08/30/2018	6.91	<0.10	7.6	6.8	3.9	427	219	5	22.3	5.7	3.5	0.00	0.00	0.00	0.00						98.932	98.423	7.51	5.9	14.8	10.0									
08/31/2018	6.96	<0.10	12.8		4.7	700	257	3	22.3	5.6	3.8	0.00	0.00	0.00	0.00						98.989	97.888	7.62	8.6	18.8										
MMAVG														MMAVG		0.49																			
Min.	6.8	0.00	6	2	2	327	146	0	20.9	5.0	1			0.00	0.00	0.09	6	0.19	13		87.69	78.17	7.0	2.0	7.0	2.6					36.0	<50	<0.50	16.0	<0.20
Max.	7.3	0.20	61	76	36	6940	3119	9200	23.0	6.8	8			0.00	0.00	1.00	126	1.24	156		99.41	99.73	8.3	8.6	57.0	36.0					36.0	<50	<0.50	16.0	<0.20
Total																																			
Average	7.0	<0.10	15	12	6	1202	503	7	21.9	6.0	4			0.00	0.00	0.32	27	0.48	39		97.30	95.74	7.7	3.8	12.5	8.2					36.0	<50	<0.50	16.0	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
08/01/2018	6,200	6,070	4,980	4,680	10,350	11,930	4.94	4.11	1,418,400	1,431,360	43,305	42,397	2,690	31,016	2,662	26,751	50	56		6,650		5,090		10,710		4.66		2,592,000		68,633			2,523	27,660		60
08/02/2018	6,150	5,770	4,730	4,380	10,830	11,310	4.76	3.50	1,458,720	1,454,400	42,956	40,302					49	59		6,210		4,710		10,750		4.01		2,664,000		64,092			6,181	69,333		56
08/03/2018	6,810	6,510	5,310	4,990	11,530	13,450	4.10	3.96	1,451,520	1,442,880	47,566	45,471	1,985	18,005	3,914	36,311	46	48		6,390		4,900		10,480		3.74		2,160,000	86,694	65,950						56
08/04/2018	6,390	6,040	4,910	4,640	10,700	11,450	4.12	4.45	1,455,840	1,441,440	44,633	42,188	3,246	34,984	3,804	36,253	49	50		6,700		5,030		10,320		4.44		1,584,000		69,149						55
08/05/2018	6,180	5,810	4,700	4,180	10,150	9,810	4.87	5.04	1,454,400	1,427,040	43,166	40,581	3,084	35,470	3,179	35,856	49	48		6,880		4,990		11,290		4.59		2,304,000		71,007						60
08/06/2018	6,140	5,760	4,650	4,390	10,110	12,290	5.03	5.25	1,455,840	1,408,320	42,886	40,232					49	52		6,990		5,190		12,390		4.92		2,520,000		72,142			3,588	35,078		60
08/07/2018	6,190	6,210	2,510	4,670	11,260	6,020	1.55	1.60	1,451,520	1,232,640	43,236	43,375	5,104	40,079	3,408	41,234	45	45		7,220		5,410		11,650		1.87		2,505,600		74,516						58
08/08/2018	5,930	6,240	4,540	4,720	12,620	12,290	4.70	4.90	1,497,600	1,339,200	41,420	43,585					42	40		7,180		5,360		13,290		3.96		2,476,800		74,103			6,125	57,240		56
08/09/2018	4,990	5,870	3,830	4,390	9,280	12,820	4.55	4.70	1,512,000	1,512,000	34,854	41,000	23,290	40,501	23,794	40,673	50	46		6,590		5,060		12,260		4.07		2,448,000		68,014						56
08/10/2018	5,720	5,980	4,250	4,470	11,090	7,490	4.39	4.60	1,359,360	1,519,200	39,953	41,769			3,830	41,829	44	44		7,120		5,170		11,090		3.85		2,304,000		73,484			6,537	57,465		52
08/11/2018	6,050	6,100	4,600	4,630	10,740	9,910	4.50	4.40	1,353,600	1,512,000	42,258	42,607	3,796	42,383	19,498	42,889	41	44		7,650		5,770		11,780		4.60		2,448,000		78,954						47
08/12/2018	4,950	5,200	3,820	3,910	12,830	13,680	6.20	4.70	1,290,240	1,500,480	34,575	36,321					44	42		4,850		3,610		15,050		5.40		2,448,000		50,056			5,435	55,319		45
08/13/2018	5,690	5,530	4,190	4,060	13,250	12,010	5.62	4.53	1,244,160	1,532,160	39,743	38,626	4,518	42,457	4,448	43,251	42	43		6,400		4,760		13,770		5.33		2,304,000		66,053						59
08/14/2018	5,040	5,470	4,080	4,060	13,400	12,740	6.42	4.61	1,537,920	1,451,520	35,203	38,207	4,251	43,067	2,514	43,249	46	46		5,200		3,920		14,490		5.64		2,304,000		53,668						52
08/15/2018	5,630	5,170	4,190	3,880	9,980	12,810	6.01	4.39	1,828,800	1,499,040	39,324	36,111					44	46		4,950		3,690		14,420		5.02		2,592,000		51,088			7,414	59,382		53
08/16/2018	5,190	5,100	3,820	3,690	10,170	14,000	5.94	4.34	1,640,160	1,474,560	36,251	35,622	3,937	43,260	4,826	43,123	46	47		5,830		4,210		15,130		4.79		2,304,000		60,170						55
08/17/2018	5,500	5,160	4,070	3,790	10,090	12,370	5.66	4.25	1,690,560	1,460,160	38,416	36,041	3,671	42,452	3,928	43,564	46	45		6,900		5,040		15,530		4.57		2,448,000		71,213						51
08/18/2018	5,220	4,900	3,980	3,700	17,110	13,570	6.28	5.81	1,195,200	1,483,200	36,460	34,225					42	45		5,650		4,190		14,420		4.81		2,448,000		58,312			7,422	60,030		57
08/19/2018	5,750	5,350	4,360	4,120	13,580	9,350	6.31	5.31	1,195,200	1,483,200	40,162	37,368	5,437	42,481	4,112	43,022	38	39		6,420		4,860		15,780		4.42		2,448,000		66,259						55
08/20/2018	4,930	3,990	3,670	3,020	12,180	11,160	6.60	5.40	1,131,840	1,584,000	34,435	27,869	4,514	42,020	3,791	44,330	45	45		6,910		5,170		14,840		4.40		2,448,000		71,316						55
08/21/2018	4,770	4,210	3,570	3,300	12,230	10,450	6.27	4.79	1,085,760	1,594,080	33,317	29,406					48	48		7,960		6,090		15,540		3.88		2,592,000		82,153			7,499	56,690		57
08/22/2018	3,590	2,720	2,740	2,100	7,990	5,930	6.80	4.60	901,440	1,540,800	25,075	18,999	2,353	41,459	3,532	42,847	47	48		7,450		5,640		14,860		4.00		2,304,000		76,890						58
08/23/2018	4,030	4,150	2,960	2,970	9,100	6,820	6.05	3.83	1,440,000	312,480	28,149	28,987	1,760	42,979	4,336	70,638	50	41		6,800		5,090		15,400		4.51		2,304,000		70,181						47
08/24/2018	6,360	5,270	4,900	4,060	10,230	12,160	5.68	4.17	1,512,000	1,555,200	44,423	36,810					41	40		7,790		5,900		15,110		4.49		2,592,000		80,399			7,730	56,776		51
08/25/2018	5,810	4,640	4,260	3,440	10,940	7,930	5.93	5.76	1,296,000	1,512,000	40,581	32,409	3,686	42,866	4,255	43,179	45	43		8,290		6,130		15,980		4.14		2,448,000		85,559						56
08/26/2018	5,770	4,290	4,290	3,170	11,080	11,270	6.15	5.76	1,360,800	1,339,200	40,302	29,965	3,975	43,287	3,441	42,977	45	47		8,110		6,050		15,680		4.06		2,448,000		83,701						62
08/27/2018	6,070	3,310	4,660	3,280	9,980	11,750	5.93	5.13	1,440,000	1,440,000	42,397	23,120					41	60		7,390		5,910		15,010		3.74		2,592,000		76,270			7,114	57,000		65
08/28/2018	6,400	5,040	4,860	3,830	9,840	11,900	5.12	3.13	1,440,000	1,440,000	44,702	35,203					41	42		8,440		6,400		15,330	0.00	3.34		2,592,000		87,107			6,765	54,205		55
08/29/2018	6,920	4,930	5,280	3,770	9,630	13,340	4.90	4.60	1,609,920	1,522,080	48,334	34,435	4,093	43,280	4,777	43,770	42	43		8,190		6,120		15,310		3.20		2,304,000		84,527						54
08/30/2018	7,040	5,060	5,690	3,940	9,130	10,670	4.55	4.15	1,677,600	1,692,000	49,173	35,343					40	44		8,410		6,350		15,320		2.46		2,448,000		86,798			7,136	57,333		54
08/31/2018	7,260	5,680	5,520	4,390	9,730	10,990	4.83	4.21	1,612,800	1,771,200	50,709	39,673					32	53		8,320		6,260		14,570		3.55		2,448,000		85,869			7,145	57,232		60
MMAVG																																				
Min.	3,590	2,720	2,510	2,100	7,990	5,930	2	2	901,440	312,480	25,075	18,999	1,760	18,005	2,514	26,751	32	39		4,850		3,610		10,320	0	2		1,584,000		50,056			2,523	27,660		45
Max.	7,260	6,510	5,690	4,990	17,110	14,000	7	6	1,828,800	1,771,200	50,709	45,471	23,290	43,287	23,794	70,638	50	60		8,440		6,400		15,980	0	6		2,664,000		87,107			7,730	69,333		65
Total									43,999,200	44,907,840	1,247,964	1,128,247	85,390	712,046	108,049	805,746												74,822,400		2,227,633			88,614	760,743		
Average	5,764	5,211	4,320	3,955	11,004	11,086	5	5	1,419,329	1,448,640	40,257	36,395	4,744	39,558	5,687	42,408	44	46		6,963		5,228		13,792	0	4		2,413,626		71,859			6,330	54,339		55

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
09/01/2018	6.31	9.73	3.45	0.00	0.275	0.000	3,365		62.0	21.3	7.56	399	388	20,998	20,419		7.14	9.0	441		429	23,208	22,576		
09/02/2018	6.27	9.64	3.45	0.00	0.267	0.000	5,619		62.0	21.3	7.55	306	400	16,001	20,917		7.45	8.0	248	203	276	12,968	14,433		
09/03/2018	6.41	10.50	3.11	0.00	0.279	0.000	4,284		72.0	21.6	7.56	264	380	14,113	20,315		7.68	4.0	175	134	194	9,355	10,371		
09/04/2018	6.30	9.81	2.96	0.00	0.274	0.000	54,101		73.0	21.6	7.62	288	454	15,132	23,854		7.55	3.5	156	135	236	8,197	12,400		
09/05/2018	6.25	9.63	2.96	0.00	0.256	0.000	58,057		69.0	21.7	7.53	336	538	17,514	28,043		7.37	3.5	184	151	285	9,591	14,856		
09/06/2018	6.45	11.03	2.96	0.20	0.296	0.000	36,781		70.0	21.8	7.56	372	592	20,011	31,845		7.30	4.0	248	209	318	13,341	17,106		
09/07/2018	6.10	12.24	2.96	0.00	0.274	0.000	74,876		63.0	22.1	7.36	128	726	6,512	36,935		6.84	8.0	358		303	18,213	15,415		
09/08/2018	5.90	9.77	2.80	0.00	0.258	0.000	18,345		59.0	22.8	7.49	113	408	5,560	20,076		7.13	10.0	360		270	17,714	13,286		
09/09/2018	6.13	10.33	2.84	0.00	0.285	0.000	5,713		49.0	21.6	7.60	270	430	13,804	21,983		7.66	7.0	307	246	300	15,695	15,337		
09/10/2018	8.00	29.78	4.70	1.50	0.281	1.485	48,256		58.0	21.5	7.58	324	570	21,617	38,030		7.59	4.5	216	181	201	14,412	13,411		
09/11/2018	10.40	10.96	3.99	0.01	0.284	0.000			58.0	19.7	7.55	330	376	28,623	32,613		7.58	12.0	342	272	294	29,664	25,500		
09/12/2018	7.09	13.99	4.25	0.25	0.276	0.000	50,849		63.0	21.2	7.63	258	386	15,256	22,824		7.70	7.5	255	215	270	15,078	15,965		
09/13/2018	6.81	13.99	4.25	0.00	0.278	0.000	67,665		62.0	21.2	7.57	264	500	14,994	28,398		7.54	13.5	323	270	206	18,345	11,700		
09/14/2018	6.12	10.64	3.72	0.00	0.277	0.000	46,358		61.0	21.1	7.46	357	590	18,222	30,114		7.23	17.0	384	316	338	19,600	17,252		
09/15/2018	5.98	9.35	3.50	0.00	0.282	0.000	21,107		63.0	21.6	7.35	395	484	19,700	24,139		7.31	22.0	474	379	371	23,640	18,503		
09/16/2018	6.12	9.93	3.49	0.00	0.283	0.000			60.0	21.3	7.39	264	472	13,475	24,091		7.51	9.0	262	153	234	13,373	11,944		
09/17/2018	6.08	27.51	3.87	1.20	0.271	0.629	49,669		62.0	21.3	7.13	354	616	17,950	31,236		7.39	6.5	237	204	252	12,018	12,778		
09/18/2018	27.71	38.09	10.78	2.80	0.290	4.987			61.0	22.2	7.53	105	224	24,266	51,767		7.48	1.9	101	77	84	23,341	19,413		
09/19/2018	13.73	18.90	0.74	0.00	0.268	0.082			61.0	20.9	7.31	159	202	18,207	23,131		7.37	3.0	123	90	120	14,085	13,741		
09/20/2018	11.24	16.36	0.02	0.00	0.299	0.000	41,061		53.0	20.8	7.37	228	366	21,373	34,309		7.29	9.0	179	140	174	16,780	16,311		
09/21/2018	10.46	15.16	6.68	0.00	0.271	0.000	61,210		57.0	20.7	7.30	146	336	12,737	29,311		7.31	5.0	158		150	13,783	13,085		
09/22/2018	9.39	12.74	5.68	0.00	0.260	0.000	13,217		61.0	20.5	6.65	144	310	11,277	24,277		7.20	4.0	230	176	158	18,012	12,373		
09/23/2018	9.10	13.55	5.64	0.00	0.296	0.000	3,863		62.0	20.3	6.85	218	340	16,545	25,804		6.91	7.5	230	187	225	17,456	17,076		
09/24/2018	8.75	12.94	5.04	0.00	0.273	0.000	90,705		53.0	20.3	6.89	288	432	21,017	31,525		6.97	5.5	215	175	241	15,690	17,587		
09/25/2018	14.01	30.79	6.16	1.45	0.303	0.000	22,953		50.0	20.1	7.07	216	310	25,238	36,221		7.14	5.0	180	136	161	21,032	18,812		
09/26/2018	13.72	37.29	8.66	0.90	0.308	1.957	68,055		63.0	19.8	7.19	231	314	26,432	35,929		7.21	4.5	204	157	179	23,343	20,482		
09/27/2018	17.03	31.62	10.37	0.10	0.303	0.000	96,432		54.0	19.3	6.92	210	298	29,826	42,325		6.91	6.0	196	156	143	27,838	20,310		
09/28/2018	13.54	21.58	8.93	0.00	0.312	0.000	2,390		56.0	19.7	7.31	54	228	6,098	25,747		6.77	5.5	172	138	60	19,423	6,775		
09/29/2018	11.84	21.60	7.70	0.00	0.313	0.000	29,402		50.0	19.8	6.84	150	251	14,812	24,785		6.77		214	183	120	21,132	11,849		
09/30/2018	10.87	14.31	7.25	0.00	0.311	0.000			50.0	19.3	7.05	185	246	16,771	22,301		7.06	5.5	176	141	150	15,955	13,598		
MMAVG	8.61																								
Min.	5.9	9.4	0.0	0.0		0.000	2,390		49.0	19.3	6.65	54	202	5,560	20,076		6.77	1.9	101	77	60	8197	6775		
Max.	27.7	38.1	10.8	2.8		4.987	96,432		73.0	22.8	7.63	399	726	29,826	51,767		7.70	22.0	474	379	429	29664	25500		
Total	284.1	503.8	142.9	8.4		9.140	974,333																		
Average	9.5	16.8	4.8	0.3		0.305	38,973		59.90	20.95	7.33	245	406	17469	28775		7.28	7.3	245	186	225	17409	15475		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
09/01/2018	7.03	0.10	14.8		6.2	779	326	18	22.0	5.6	5.4	0.00	0.00	0.00	0.00						98.446	96.186	7.67	12.6	19.6										
09/02/2018	7.09	0.01	16.4	11.6	10.5	858	549	10	21.8	5.9	6.2	0.00	0.00	0.00	0.00	0.38	20	1.01	53		96.569	95.900	7.61	12.3	21.6	15.8										
09/03/2018	7.05	0.01	10.8	9.0	6.7	577	358	24	22.2	5.9	5.3	0.00	0.00	0.00	0.00	0.57	30	1.41	75		97.462	97.158	7.64	11.1	17.2	11.8										
09/04/2018	6.81	0.10	15.2	11.2	6.4	799	336	200	23.1	5.7	6.6	0.00	0.00	0.00	0.00	0.90	47	0.72	38		97.778	96.652	7.63	7.7	20.8	16.6										
09/05/2018	7.15	0.20	18.8	13.0	6.8	980	354	220	23.0	6.4	8.5	0.00	0.00	0.00	0.00						97.976	96.506	7.69	7.3	23.6	15.4										
09/06/2018	6.98	0.20	18.2	13.8	7.8	979	420	52	23.4	6.2	9.7	0.00	0.00	0.00	0.00						97.903	96.926	7.63	9.0	26.0	18.8										
09/07/2018	6.94	0.20	25.4		13.1	1,292	666	180	23.5	5.1	8.6	0.00	0.00	0.00	0.00						89.766	96.501	7.37	9.6	28.8										
09/08/2018	6.79	0.00	23.0		12.6	1,132	620	32	22.3	6.5	7.9	0.00	0.00	0.00	0.00						88.850	94.363	7.49	9.9	29.0										
09/09/2018	6.94	0.01	24.2	16.6	15.5	1,237	792	30	21.8	6.4	8.6	0.00	0.00	0.00	0.00	0.76	39	0.93	48		94.259	94.372	7.65	14.3	28.6	21.6										
09/10/2018	7.06	0.20	35.4	27.0	9.2	2,362	614	60	22.0	6.1	12.7	0.00	0.00	0.00	0.00	1.15	77	2.28	152		97.160	93.789	7.67	5.2	28.8	21.4										
09/11/2018	7.11	0.10	13.8	8.4	8.4	1,197	729	18	20.9	6.4	12.4	0.00	0.00	0.00	0.00	0.50	43	0.55	48		97.455	96.330	7.61	9.3	19.0	14.4										
09/12/2018	7.15	0.10	17.2	11.6	8.3	1,017	491	27	21.6	5.9	13.0	0.00	0.00	0.00	0.00						96.783	95.544	7.77	9.9	23.6	18.6					39.00	110.00	0.75	26.00	<0.20
09/13/2018	6.86	0.10	11.4	7.4	5.6	647	318	65	22.0	5.5	6.9	0.00	0.00	0.00	0.00						97.879	97.720													
09/14/2018	6.99	0.10	17.0	12.0	9.8	868	500		22.4	5.8	7.1	0.00	0.00	0.00	0.00						97.255	97.119	8.34	8.4	18.4	14.6										
09/15/2018	6.97	<0.10	16.8	13.6	14.0	838	698	15	21.6	6.3	5.2	0.00	0.00	0.00	0.00						96.456	96.529	8.31	16.7	17.4	13.0										
09/16/2018	6.96	<0.10	14.2	7.8	6.8	725	347	13	21.9	6.3	5.9	0.00	0.00	0.00	0.00	0.45	23	0.32	16		97.424	96.992	7.61	6.7	13.6	11.4										
09/17/2018	6.89	<0.10	14.0	10.4	10.4	710	527	9	22.4	5.2	6.0	0.00	0.00	0.00	0.00	0.56	28	0.81	41		97.062	97.727	7.54	6.1	14.0	10.0										
09/18/2018	6.93	1.00	67.0	53.0	36.0	15,484	8,320	580	22.3	5.2	30.7	0.00	0.00	0.00	0.00	0.93	215	3.73	862		65.714	70.089	7.42	4.0	10.0	6.0										
09/19/2018	7.05	0.10	15.2	9.4	16.7	1,741	1,912	7	21.0	4.8	6.3	0.00	0.00	0.00	0.00						89.497	92.475	7.28	3.2	10.0	6.4										
09/20/2018	7.13	0.10	7.8	4.2	5.0	731	469	14	20.8	5.6	5.7	0.00	0.00	0.00	0.00						97.807	97.869	7.41	3.3	11.4	7.0										
09/21/2018	7.07	0.20	10.6	8.4	3.5	925	305	9	20.7	5.8	8.0	0.00	0.00	0.00	0.00						97.603	96.845	7.00	3.6	10.4	7.6										
09/22/2018	7.19	0.00	10.6	8.0	2.6	830	204	8	20.9	6.6	7.0	0.00	0.00	0.00	0.00						98.194	96.581	7.30	3.3	11.2	7.8										
09/23/2018	6.93	0.00	9.6	6.2	5.1	729	387	230	20.8	6.7	6.0	0.00	0.00	0.00	0.00	0.19	14	0.15	11		97.661	97.176	7.05	7.2	9.4	6.6										
09/24/2018	6.93	0.10	16.6	11.6	5.0	1,211	365	15	20.1	6.7	5.5	0.00	0.00	0.00	0.00	0.21	15	0.19	14		98.264	96.157	6.83	4.2	11.8	8.0										
09/25/2018	7.25	0.10	278.0	202.0	76.2	32,482	8,903	6	20.1	6.6	4.4	0.00	0.00	0.00	0.00	2.61	305	2.21	258		64.722	10.323	7.04	4.3	9.0	5.6										
09/26/2018	6.92	0.10	18.8	11.8	18.3	2,151	2,094	2	19.3	5.6	6.4	0.00	0.00	0.00	0.00						92.078	94.013	6.99	4.3	12.6	9.4										
09/27/2018	6.92	0.10	12.0	9.4	3.3	1,704	469	35	20.3	5.0	7.1	0.00	0.00	0.00	0.00						98.429	95.973	6.62	4.2	15.0	12.2										
09/28/2018	6.60	0.20	15.0	11.6	3.9	1,694	440	18	19.7	5.5	7.3	0.00	0.00	0.00	0.00						92.778	93.421	6.45	3.8	7.6	15.4										
09/29/2018	6.63	0.10	9.8	7.8	3.7	968	365	1	19.8	6.9	1.4	0.00	0.00	0.00	0.00						97.533	96.096	6.59	3.6	12.8	9.6										
09/30/2018	6.60	0.10	8.2	5.2	4.8	743	435	0	19.7	7.0	1.2	0.00	0.00	0.00	0.00	0.20	18	0.15	14		97.405	96.667	6.87	3.4	13.4	8.8										
MMAVG													MMAVG		0.52																				
Min.	6.6	0.00	8	4	3	577	204	0	19.3	4.8	1			0.00	0.00	0.19	14	0.15	11		64.72	10.32	6.5	3.2	7.6	5.6					39.0	110	0.75	26.0	<0.20
Max.	7.3	1.00	278	202	76	32482	8903	580	23.5	7.0	31			0.00	0.00	2.61	305	3.73	862		98.45	97.87	8.3	16.7	29.0	21.6					39.0	110	0.75	26.0	<0.20
Total																																				
Average	7.0	<0.13	26	19	11	2613	1111	22	21.4	6.0	8			0.00	0.00	0.72	67	1.11	125		94.14	92.33	7.4	7.2	17.1	12.1					39.0	110	0.75	26.0	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
09/01/2018	7,610	4,700	5,810	3,630	10,480	12,570	5.19	3.25	1,404,000	1,396,800	53,154	32,828	4,062	42,579	4,607	43,912	42	45		8,270		6,120		14,780		3.66		2,520,000		85,353						54
09/02/2018	7,550	4,640	5,800	3,700	10,320	12,220	5.29	2.94	1,411,200	1,396,800	52,735	32,409					42	43		8,220		6,250		13,990		3.43		2,448,000		84,837			6,724	57,626		57
09/03/2018	7,980	5,210	6,230	4,110	9,440	12,510	5.09	0.93	1,476,000	1,373,760	55,738	36,391					39	40		8,570		6,740		13,800		3.35		2,448,000	86,694	88,449			6,697	56,589		48
09/04/2018	8,420	5,530	6,500	4,320	10,620	13,000	4.44	0.01	1,463,040	1,533,600	58,812	38,626	388	4,937	536	4,937	36	36		8,210		6,320		13,150		3.73		2,448,000		84,733						44
09/05/2018	6,500	6,110	4,920	4,730	12,390	11,830	5.05	5.30	1,368,000	1,411,200	45,401	42,677	5,067	42,669	4,779	43,745	42	41		8,450		6,570		12,650		3.44		2,448,000		87,210						47
09/06/2018	6,870	6,890	4,930	5,110	10,710	10,880	4.97	5.18	1,592,640	1,582,560	47,985	48,125					38	39		8,760		6,790		14,680		2.86		2,592,000		90,410			7,125	56,300		43
09/07/2018	6,660	6,470	4,910	4,910	11,820	13,040			1,651,680	1,586,880	46,518	45,191					39	40		7,860		5,940		13,410				2,448,000		81,121			6,555	56,589		45
09/08/2018	6,450	6,400	4,950	4,860	11,380	12,050	5.07	4.08	1,523,520	1,592,640	45,052	44,702	4,112	43,330	4,373	43,512	43	48		7,420		5,680		12,580		3.37		2,448,000		76,580						49
09/09/2018	6,270	6,230	4,770	4,730	10,710	10,990	5.51	4.66	1,520,640	1,535,040	43,794	43,515	3,836	42,947	3,936	42,947	48	53		7,990		5,950		12,090		3.91		2,448,000		82,463						48
09/10/2018	5,660	6,140	4,330	4,700	13,650	8,650	5.92	5.56	1,487,520	1,579,680	39,534	42,886					48	49		8,580		6,340		13,900		4.47		2,592,000		88,552			6,434	57,744		43
09/11/2018	5,270	5,480	4,160	4,250	15,290	13,470	7.72	7.39	1,461,600	1,569,600	36,810	38,276					47	49		5,990		4,610		19,210		6.41		2,520,000		61,821			6,520	53,638		45
09/12/2018	6,820	7,280	5,140	5,540	11,470	12,970	4.73	4.83	2,232,000	2,181,600	47,636	50,849					47	45		7,350		5,600		14,890		3.54		2,592,000		75,858			7,467	57,358		45
09/13/2018	7,130	7,170	5,550	5,450	12,800	11,680	5.00	5.08	2,145,600	2,220,480	49,801	50,081	4,305	42,995	4,664	43,234	46	49		7,400		5,640		15,730		4.10		2,592,000		76,374						43
09/14/2018	7,090	7,370	5,370	5,650	13,060	12,110	5.09	5.10	2,217,600	2,188,800	49,522	51,478					49	49		7,470		5,700		14,020		3.97		2,592,000		77,096			6,706	57,414		44
09/15/2018	7,430	7,400	5,740	5,690	12,570	12,510	4.80	4.80	2,211,840	2,115,360	51,897	51,687	4,513	43,051	2,642	42,802	46	41		6,790		5,200		12,600		3.90		2,592,000		70,078						44
09/16/2018	6,840	6,860	5,260	5,310	11,560	12,930	4.70	4.70	2,201,760	1,990,080	47,776	47,915					48	48		7,060		5,410		12,450		3.90		2,592,000		72,864			6,002	57,120		45
09/17/2018	6,970	7,420	5,300	5,620	10,320	12,300	4.97	5.00	2,167,200	2,041,920	48,684	51,827	4,266	42,971	4,855	43,798	49	54		7,280		5,510		12,870		4.22		2,304,000		75,135						43
09/18/2018	6,080	6,190	4,610	4,680	12,700	12,830	5.62	5.69	2,119,680	1,975,680	42,467	43,236					48	49		4,470		3,370		16,530		4.26		2,304,000		46,134			8,247	57,982		36
09/19/2018	5,940	6,050	4,630	4,790	12,520	13,300	6.78	6.34	2,093,760	1,879,200	41,489	42,258	4,835	43,391	5,166	42,959	51	51		5,270		3,960		16,570		5.71		2,160,000		54,390						46
09/20/2018	5,620	5,540	4,300	4,290	10,910	13,710	7.45	6.89	2,105,280	1,910,880	39,254	38,696					50	54		6,640		4,990		15,680		5.76		2,304,000		68,530			3,291	57,047		47
09/21/2018	5,960	5,960	4,520	4,460	14,150	11,690	6.85	6.32	2,034,720	1,766,880	41,629	41,629	4,346	44,139	5,206	43,578	52	52		6,230		4,720		16,270		5.32		2,304,000		64,298						50
09/22/2018	6,000	5,960	4,580	4,570	11,070	11,230	6.67	7.12	1,703,520	2,062,080	41,909	41,629			0	0	50	52		6,660		5,090		16,230		4.66		2,304,000		68,736			8,099	57,583		50
09/23/2018	6,490	6,300	4,930	4,790	12,190	14,420	7.23	7.00	2,053,440	1,634,400	45,331	44,004	4,399	43,267	5,147	42,795	48	49		7,010		5,330		14,320		5.64		2,304,000		72,348						47
09/24/2018	5,770	5,570	3,080	2,930	9,670	11,370	7.50	7.10	2,102,400	1,542,240	40,302	38,905					49	54		6,710		3,890		13,450		4.90		2,304,000		69,252			6,889	57,687		49
09/25/2018	5,700	5,280	4,320	4,000	10,330	14,450	7.41	7.02	1,592,640	1,582,560	39,813	36,879	4,102	43,599	5,094	43,688	53	57		6,970		5,290		13,620		5.58		2,592,000		71,936						49
09/26/2018	4,510	4,450	3,580	3,520	9,530	14,780	7.86	7.54	1,497,600	1,540,800	31,501	31,082					51	52		4,890		3,820		14,340		5.48		2,304,000		50,468						49
09/27/2018	4,140	3,860	3,240	3,030	13,460	11,700	8.40	7.90	1,670,400	2,812,320	28,917	26,961					56	60		3,960		3,100		3,930		6.30		2,592,000		40,870						51
09/28/2018	4,660	4,750	3,600	3,740	12,080	14,350	8.12	7.71	1,540,800	1,391,040	32,549	33,178					52	48		4,570		3,620		15,750		6.07	0	2,160,000		47,166						53
09/29/2018	5,340	5,030	4,130	3,830	11,270	13,530	7.94	7.74	1,448,640	1,339,200	37,299	35,133			5,106	42,665	51	54		5,180		4,010		14,850		6.30		2,592,000		53,461						54
09/30/2018	5,970	5,850	4,510	4,510	10,770	12,060	8.01	7.54	1,529,280	1,488,960	41,699	40,861					57	55		5,380		4,240		15,200		6.47		2,592,000		55,526			3,537	28,223		52
MMAVG																																				
Min.	4,140	3,860	3,080	2,930	9,440	8,650	4	0	1,368,000	1,339,200	28,917	26,961	388	4,937	0	0	36	36		3,960		3,100		3,930		3	0	2,160,000		40,870			3,291	28,223		36
Max.	8,420	7,420	6,500	5,690	15,290	14,780	8	8	2,232,000	2,812,320	58,812	51,827	5,067	44,139	5,206	43,912	57	60		8,760		6,790		19,210		6	0	2,592,000		90,410			8,247	57,982		57
Total									53,028,000	52,223,040	1,325,008	1,243,914	48,231	479,875	56,111	524,572											0	73,440,000		2,122,049			90,293	768,900		
Average	6,323	5,936	4,790	4,515	11,641	12,504	6	6	1,767,600	1,740,768	44,167	41,464	4,019	39,990	4,008	37,469	47	49		6,854		5,193		14,118		5	0	2,448,000		70,735			6,450	54,921		47

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
10/01/2018	10.53	14.09	7.27	0.15	0.321	0.000	54,178		53.0	19.5	7.09	60	418	5,269	36,709		7.09	14.0	253	214	107	22,219	9,397		
10/02/2018	11.75	27.42	8.58	0.80	0.321	0.234	53,424		53.0	19.5	7.09	246	420	24,107	41,158		7.20	8.0	274	212	204	26,851	19,991		
10/03/2018	12.53	15.02	7.58	0.00	0.313	0.000	75,105		54.0	19.1	7.17	234	402	24,453	42,009		7.27	6.0	251	204	203	26,230	21,214		
10/04/2018	10.87	32.31	10.89	0.00	0.300	0.011	117,581		59.0	19.5	7.08	219	426	19,854	38,619		6.99	10.0	326	270	210	29,554	19,038		
10/05/2018	10.21	13.32	6.37	0.00	0.301	0.000			50.0	19.2	7.40	228	354	19,415	30,144		7.22	15.0	376		252	32,017	21,458		
10/06/2018	9.64	13.62	6.01	0.00	0.298	0.000	79,327		50.0	18.9	7.01	339	430	27,255	34,571		7.11	8.0	294		212	23,637	17,044		
10/07/2018	9.62	15.47	5.92	0.01	0.310	0.000	65,883		65.0	19.3	6.99	209	302	16,768	24,230		7.09	11.0	309	240	206	24,791	16,528		
10/08/2018	9.43	14.46	6.47	0.05	0.288	0.000	70,082		51.0	18.7	7.16	276	426	21,706	33,503		7.50	3.0	152	117	152	11,954	11,954		
10/09/2018	9.31	13.05	5.30	0.00	0.289	0.000	80,648		59.0	18.8	7.61	282	480	21,896	37,270		7.63	5.0	234	188	191	18,169	14,830		
10/10/2018	8.56	14.07	5.74	0.00	0.308	0.000	67,126		61.0	19.0	7.65	276	454	19,704	32,411		7.70	7.0	250	202	194	17,848	13,850		
10/11/2018	11.55	36.57	6.86	1.50	0.283	1.452	19,695		60.0	18.7	7.70	375	810	36,123	78,025		7.72	6.0	220	154	152	21,192	14,642		
10/12/2018	10.51	14.47	5.27	0.00	0.300	0.000	57,557		58.0	18.8	7.45	312	464	27,348	40,671		7.39	25.0	496	374	312	43,476	27,348		
10/13/2018	10.06	14.47	6.67		0.285	0.000	16,326		46.0	18.6	6.93	149	426	12,501	35,742		7.12	18.0	211	163	150	17,703	12,585		
10/14/2018	9.69	12.25	0.07	0.00	0.302	0.000	6,924		60.0	18.2	7.53	234	446	18,911	36,043		7.54	9.0	265	185	173	21,416	13,981		
10/15/2018	9.89			0.20	0.294	0.000	54,951		39.0	18.5	7.71	300	578	24,745	47,675		7.50	7.5	184	142	201	15,177	16,579		
10/16/2018	9.75			0.00	0.287	0.000	99,100		41.0	18.5	7.66	239	336	19,434	27,322										
10/17/2018	9.17			0.03	0.313	0.000	57,054		38.0	18.5	7.54	228	376	17,437	28,756										
10/18/2018	8.49	12.64		0.00	0.284	0.000	85,814		33.0	18.7	7.62	309	404	21,879	28,606										
10/19/2018	8.66	13.35	5.06	0.00	0.316	0.000	61,493		34.0	18.7	7.60	212	288	15,312	20,801		7.52	22.0	389	321	264	28,095	19,067		
10/20/2018	8.41	13.02	4.65	0.00	0.280	0.000	24,969		53.0	18.1	7.59	213	248	14,940	17,395		7.50	7.5	296	250	294	20,761	20,621		
10/21/2018	8.04	11.96	4.90	0.00	0.308	0.000	537		41.0	18.0	7.83	206	258	13,813	17,300		7.80	11.0	276	222	235	18,507	15,758		
10/22/2018	7.76	14.00	4.31	0.00	0.274	0.000	94,404		25.0	18.1	7.65	324	496	20,969	32,100		7.34	80.0	1580	1224	630	102,255	40,773		
10/23/2018	8.36	22.58	4.44	0.10	0.284	0.000	82,697		42.0	18.0	7.69	324	416	22,590	29,005										
10/24/2018	7.79	12.92	4.38	0.00	0.279	0.000	102,658		41.0	17.2	7.72	290	402	18,841	26,117		7.74	14.0	384	302	288	24,948	18,711		
10/25/2018	7.53	10.96	4.37	0.00	0.283	0.000	85,913		38.0	17.3	7.71	330	472	20,724	29,642		7.68	17.0	356	291	317	22,357	19,908		
10/26/2018	7.41	13.35	4.02	0.00	0.290	0.000	115,792		32.0	17.2	6.85	165	454	10,197	28,057		7.10	15.0	392	304	174	24,225	10,753		
10/27/2018	11.59	21.07	5.18	1.25	0.280	1.705	17,323		38.0	17.2	6.66	102	200	9,859	19,332		6.80	8.0	183	142	123	17,689	11,889		
10/28/2018	10.60	13.75	6.42	0.10	0.279	0.000	18,574		40.0	15.8	7.66	153	206	13,526	18,211		7.73	9.0	199	173	137	17,592	12,111		
10/29/2018	11.51	24.85	7.04	0.20	0.270	0.258	27,339		45.0	16.5	7.64	161	246	15,455	23,614		7.64	8.0	208	171	156	19,967	14,975		
10/30/2018	10.25	15.14	6.87	0.00	0.274	0.000	102,653		39.0	16.9	7.57	288	462	24,620	39,494		7.66	16.0	323	266	209	27,612	17,866		
10/31/2018	9.89	14.75	6.59	0.00	0.257	0.000	143,406		31.0	16.9	7.77	218	354	17,981	29,199		7.79	8.5	227	193	171	18,724	14,105		
MMAVG	8.80																								
Min.	7.4	11.0	0.1	0.0		0.000	537		25.0	15.8	6.66	60	200	5,269	17,300		6.80	3.0	152	117	107	11954	9397		
Max.	12.5	36.6	10.9	1.5		1.705	143,406		65.0	19.5	7.83	375	810	36,123	78,025		7.80	80.0	1580	1224	630	102255	40773		
Total	299.4	464.9	157.2	4.4		3.660	1,938,533																		
Average	9.7	16.6	5.8	0.1		0.118	64,618		46.10	18.25	7.43	242	402	19278	32378		7.42	13.6	330	261	219	25739	17295		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																			PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
10/01/2018	6.94	0.10	11.2	25.8	6.2	984	544	10	19.5	6.8	6.1	0.00	0.00	0.00	0.00	0.24	21	0.30	26		89.667	97.321	6.69	9.0	12.6	11.6									
10/02/2018	6.79	0.10	10.8	7.6	8.4	1,058	823	1	19.7	5.8	2.9	0.00	0.00	0.00	0.00	0.27	26	0.64	63		96.585	97.429	7.06	5.0	14.2	11.2									
10/03/2018	6.86	<0.10	12.0	7.2	6.2	1,254	648	24	18.9	5.8	4.4	0.00	0.00	0.00	0.00						97.350	97.015	7.13	4.4	13.0	7.4									
10/04/2018	6.98	0.10	12.8	8.6	12.0	1,160	1,088	20	19.4	6.6	6.3	0.00	0.00	0.00	0.00						94.521	96.995	6.87	6.6	15.2	12.0									
10/05/2018	6.92	0.10	16.0		13.5	1,362	1,150	330	19.4	6.7	6.6	0.00	0.00	0.00	0.00						94.079	95.480	7.21	3.3	11.6										
10/06/2018	6.92	0.10	17.8		4.7	1,431	378	44	19.4	7.0		0.00	0.00	0.00	0.00						98.614	95.860	7.32	3.1	12.0										
10/07/2018	6.91	0.10	14.8	10.0	8.0	1,187	642	13	19.6	6.8		0.00	0.00	0.00	0.00	0.19	15	4.95	397		96.172	95.099	7.18	5.5	10.0	6.2									
10/08/2018	6.84	0.10	11.8	7.2	14.1	928	1,109	11	19.7	6.9		0.00	0.00	0.00	0.00	0.21	17	5.20	409		94.891	97.230	7.30	3.2	10.4	6.8									
10/09/2018	7.04	0.10	19.0	15.6	13.2	1,475	1,025	21	19.5	6.4	7.1	0.00	0.00	0.00	0.00	0.21	16	8.80	683		95.319	96.042	7.58	3.2	9.0	6.2									
10/10/2018	7.26	0.10	9.2	6.2	18.3	657	1,306	80	20.0	6.2	5.4	0.00	0.00	0.00	0.00						93.370	97.974	7.66	3.9	9.6	5.8									
10/11/2018	7.05	<0.10	26.4	18.0	24.0	2,543	2,312	127	20.1	5.3	2.9	0.00	0.00	0.00	0.00						93.600	96.741	7.38	4.0	11.4	8.4	7.07	41.4	38.6	30.6	49.00	60.00	0.56	23.00	<0.20
10/12/2018	7.06	0.10	12.4	9.4	13.2	1,087	1,157	340	19.0	5.9	3.5	0.00	0.00	0.00	0.00						95.769	97.328	7.97	5.2	13.0	8.2	7.90	24.5	23.8	18.2					
10/13/2018	6.94	0.10	47.0	42.0	7.5	3,943	629	300	18.7	6.3	3.0	0.00	0.00	0.00	0.00						94.966	88.967	7.05	4.5	51.0	34.0	7.65								
10/14/2018	6.84	0.10	7.8	6.0	8.0	630	647	20	18.2	7.4	3.2	0.00	0.00	0.00	0.00	0.13	11	1.65	133		96.581	98.251	7.37	4.1	10.0	6.8	7.08	24.2	18.2	14.0					
10/15/2018	7.15	0.10	8.6	5.2	10.2	709	841	9	18.2	7.3	3.3	0.00	0.00	0.00	0.00	0.18	15	1.34	111		96.600	98.512	7.38	5.0	10.0	6.6	6.88	23.1	23.4	16.2					
10/16/2018	6.95	0.10	9.4	5.8	11.7	764	951	22	18.4	7.2	3.8	0.00	0.00	0.00	0.00	0.19	15	3.17	258		95.105	97.202	7.37	4.2	8.0	5.4	6.90	25.7	21.8	16.6					
10/17/2018	7.17	0.10	10.8	6.6	11.6	826	887	23	18.3	6.7	4.2	0.00	0.00	0.00	0.00						94.912	97.128	7.31	4.8	8.4	5.6	6.87	36.6	22.6	17.6					
10/18/2018	7.05	0.10	12.4	7.6	9.9	878	701	11	17.8	6.7	3.6	0.00	0.00	0.00	0.00						96.796	96.931	7.36	4.9	10.6	6.8	7.03	34.8	24.2	18.4					
10/19/2018	6.99	<0.10	3.0	7.4	9.2	217	664	29	17.6	7.0	3.7	0.00	0.00	0.00	0.00						95.660	98.958	8.27	4.9	4.8	7.4	8.28	28.2	19.8	20.4					
10/20/2018	7.04	<0.10	3.6	7.4	11.9	253	835	10	18.0	7.2	4.0	0.00	0.00	0.00	0.00						94.413	98.548	8.32	9.3	5.6	7.6	8.28	37.2	17.4	17.0					
10/21/2018	7.21	<0.10	11.8	8.6	22.4	791	1,502	20	18.0	7.2	3.9	0.00	0.00	0.00	0.00	0.31	21	8.52	571		89.126	95.426	7.64	25.5	13.8	12.4	7.35	42.0	21.2	17.8					
10/22/2018	7.37	0.10	14.8	10.4	25.4	958	1,644	330	17.1	7.0	8.5	0.00	0.00	0.00	0.00	0.42	27	13.80	893		92.160	97.016	7.66	31.8	22.2	16.4	7.19	48.6	56.4	49.2					
10/23/2018	7.27	0.10	13.0	11.0	19.8	906	1,381	23	17.4	7.0	7.4	0.00	0.00	0.00	0.00	0.34	24	7.05	492		93.889	96.875	7.54	12.0	12.4	10.6	7.29	46.2	57.8	50.8					
10/24/2018	7.25	0.20	12.2	8.2	13.5	793	877	10	17.2	7.2	9.8	0.00	0.00	0.00	0.00						95.345	96.965	7.14	5.8	10.2	8.0	7.19	31.8	37.0	29.4					
10/25/2018	7.11	<0.10	11.6	8.6	8.3	728	521	7	17.0	7.3	5.7	0.00	0.00	0.00	0.00						97.485	97.542	7.58	5.7	8.8	6.6	7.01	17.7	34.2	28.2					
10/26/2018	7.13	0.10	13.8	11.2	8.1	853	501	34	16.8	6.6	4.9	0.00	0.00	0.00	0.00						95.091	96.960	7.35	6.2	10.8	8.6	7.20	16.1	33.0	26.0					
10/27/2018	6.81	0.10	97.8	77.6	45.6	9,453	4,408	29	17.1	7.5	5.0	0.00	0.00	0.00	0.00						55.294	51.100	6.81	6.7	7.8	4.4	6.75	48.0	283.2	223.0					
10/28/2018	6.67	5.50	10.0	7.6	6.9	884	610	3	15.1	7.8	7.5	0.00	0.00	0.00	0.00	0.20	18	0.29	26		95.490	95.146	7.52	4.1	9.6	8.4	6.89	14.3	23.6	21.0					
10/29/2018	7.03	0.10	22.6	19.0	15.9	2,169	1,526	6	16.3	7.5	7.9	0.00	0.00	0.00	0.00	0.42	40	1.07	103		90.124	90.813	7.46	5.0	10.8	9.4	6.95	30.6	102.0	84.4					
10/30/2018	6.95	0.10	8.0	6.2	7.2	684	615	14	16.0	7.6	7.3	0.00	0.00	0.00	0.00	0.21	18	0.16	14		97.500	98.268	7.45	4.7	8.4	7.0	6.80	22.2	43.0	37.8					
10/31/2018	6.91	0.10	9.4	6.6	7.5	775	619	22	15.9	7.8	5.9	0.00	0.00	0.00	0.00						96.560	97.345	7.49	4.0	10.6	9.4	7.25	14.6	42.2	36.6					
MMAVG														MMAVG		0.47																			
Min.	6.7	<0.10	3	5	5	217	378	1	15.1	5.3	3			0.00	0.00	0.13	11	0.16	14		55.29	51.10	6.7	3.1	4.8	4.4	6.8	14.3	17.4	14.0	49.0	60	0.56	23.0	<0.20
Max.	7.4	5.50	98	78	46	9453	4408	340	20.1	7.8	10			0.00	0.00	0.42	40	13.80	893		98.61	98.96	8.3	31.8	51.0	34.0	8.3	48.6	283.2	223.0	49.0	60	0.56	23.0	<0.20
Total																																			
Average	7.0	<0.28	16	13	13	1366	1050	24	18.2	6.9	5			0.00	0.00	0.25	20	4.07	298		93.65	95.11	7.4	6.8	12.1	9.1	7.2	30.4	47.2	38.7	49.0	60	0.56	23.0	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
10/01/2018	6,960	7,100	5,390	5,410	11,930	15,240	7.83	7.42	1,533,600	1,440,000	48,614	49,592	4,380	43,888	4,556	42,104	52	49		5,490		4,210		15,630		7.21		2,592,000		56,661						55
10/02/2018	6,720	6,240	5,220	4,760	11,580	13,290	8.00	7.41	1,452,960	1,440,000	46,938	43,585	4,117	42,630	4,772	43,055	52	56		4,620		3,530		16,750		6.67		2,592,000		47,682						54
10/03/2018	5,580	5,860	4,280	4,400	13,050	12,930	8.29	7.72	1,473,120	1,483,200	38,975	40,931	4,378	42,630	4,708	43,055	54	51		6,220		4,770		15,420		5.98		2,160,000	86,694	64,195						51
10/04/2018	6,360	6,530	4,800	4,910	12,580	13,880	7.78	7.44	1,493,280	1,586,880	44,423	45,610	4,557	42,638	4,821	43,127	50	46		4,780		3,630		15,790		5.79		2,016,000		49,333						52
10/05/2018	7,120	6,710	5,540	5,210	11,820	13,090	7.20	7.46	1,549,440	1,474,560	49,731	46,868	4,714	43,002	1,186	10,243	48	51	5,780		4,580		15,330				2,592,000		59,654		4,248	34,107			57	
10/06/2018	7,060	6,400	5,370	4,870	12,080	12,610	7.88	7.48	1,494,720	1,584,000	49,312	44,702					52	53	5,950		4,610		15,680		5.76		2,592,000		61,408		6,341	50,315			57	
10/07/2018	7,220	6,860	5,540	5,240	13,790	11,820	7.82	7.36	1,512,000	1,612,800	50,430	47,915					55	54	5,560		4,340		15,410		5.84		2,592,000		57,383		6,572	50,695			67	
10/08/2018	7,330	6,660	5,470	5,030	11,860	12,900	8.23	7.56	1,418,400	1,506,240	51,198	46,518	4,557	42,891	4,516	43,620	55	54	5,890		4,540		13,490		5.92		2,592,000		60,789						65	
10/09/2018	7,350	6,830	5,630	5,240	9,820	11,870	8.20	7.58	1,447,200	1,497,600	51,338	47,706					52	53	5,450		4,550		14,560		5.78		2,592,000		56,248		5,838	50,291			64	
10/10/2018	6,890	6,250	5,340	4,790	12,430	8,590	8.01	7.32	1,552,320	1,480,320	48,125	43,655	4,635	42,928			51	54	5,660		4,320		10,630		5.77		2,592,000		58,415		6,477	50,417			62	
10/11/2018	6,930	6,240	5,410	4,860	6,990	11,540	8.30	7.42	1,565,280	1,368,000	48,404	43,585			4,151	42,867	48	50	5,440		4,330		14,850		5.72		2,592,000		56,145						63	
10/12/2018	4,920	5,120	3,780	3,890	15,430	12,620	6.89	6.90	1,317,600	1,425,600	34,365	35,762	5,292	49,980	5,798	50,036	47	49	6,360		4,940		14,790		5.66		2,592,000		65,640						63	
10/13/2018	5,110	5,510	3,940	4,180	12,650	14,460	5.45	6.48	1,450,080	1,441,440	35,692	38,486			5,168	42,850	57	56	7,300		5,550		14,270		5.68		2,592,000		75,341						62	
10/14/2018	5,270	5,400	4,050	4,130	12,530	13,500	7.57	7.76	1,438,560	1,437,120	36,810	37,718	4,479	42,455			53	56	7,040		5,480		14,300		5.75		2,592,000		72,658		5,890	49,490			78	
10/15/2018	5,370	5,580	4,160	4,310	14,850	14,590	7.61	7.33	1,422,720	1,746,720	37,508	38,975			5,023	43,850	52	50	7,340		5,780		15,370		5.62		2,592,000		75,754						82	
10/16/2018	5,370	5,330	4,210	4,160	12,730	14,950	5.98	6.36	1,584,000	1,512,000	37,508	37,229	4,042	43,464			56	56	5,280		4,170		16,240		8.48		2,592,000		54,494		7,409	50,632			72	
10/17/2018	6,120	14,090	4,660	13,020	10,390	12,110			1,512,000	1,501,920	42,747	98,415					52	21	5,220		2,290		17,930		7.80		2,592,000		53,874		8,239	56,952			67	
10/18/2018	6,250	5,830	5,240	4,500	14,240	13,880	5.70	5.94	1,512,000	1,520,640	43,655	40,721					54	57	4,650		3,330		15,940		6.00		2,592,000		47,991		7,849	56,951			73	
10/19/2018	6,250	6,470	4,960	5,050	13,420	12,590	6.13	6.07	1,627,200	1,584,000	43,655	45,191	4,508	43,400	5,071	43,247	51	51	5,500		4,390		16,140		5.70		2,592,000		63,576						71	
10/20/2018	5,910	5,820	4,730	4,580	11,030	9,120	4.60	6.50	1,709,280	1,350,720	41,280	40,651					47	52	5,950		4,770		17,120		5.70		1,584,000		68,777		8,056	57,774			72	
10/21/2018	2,230	2,040	1,920	1,810	3,240	1,910	7.30	8.10	1,825,920	1,206,720	15,576	14,249					54	59	6,040		4,860		16,320		5.50		1,584,000		69,818		7,864	57,774		0	66	
10/22/2018	1,000	910	960	890	2,990	1,040	8.35	9.15	1,584,000	1,288,800	6,985	6,356					70	55	5,480		4,690		16,870		5.55		1,483,200		63,345		7,958	57,427			82	
10/23/2018	6,300	6,510	5,010	5,190	13,920	13,920	3.25	4.29	1,640,160	1,651,680	44,004	45,471					52	54	6,060		4,870		16,630		5.52		1,306,080		70,049						71	
10/24/2018	6,610	6,900	5,220	5,410	9,030	15,110	6.15	7.22	1,568,160	1,490,400	46,169	48,195					50	49	6,400		5,040		18,440		5.49		1,360,800		73,979						67	
10/25/2018	6,440	6,440	5,150	5,080	12,270	13,760	6.67	7.31	1,477,440	1,490,400	44,982	44,982	4,669	43,000	27,357	43,883	51	54	6,650		5,310		17,890		9.72		1,697,760		76,869						62	
10/26/2018	6,110	6,110	5,020	4,980	11,070	11,460	7.36	7.47	1,468,800	1,464,480	42,677	42,677					56	57	6,850		5,330		16,640		10.00		1,738,080		79,181		7,559	51,612			67	
10/27/2018	11,450	7,060	9,000	5,540	12,970	8,000	8.43	7.65	1,437,120	1,476,000	79,975	49,312					30	48	7,080		5,650		17,930		8.91		1,745,280		81,839		8,609	57,573			57	
10/28/2018	5,810	6,300	4,590	4,920	12,620	13,710	9.05	8.18	1,618,560	1,288,800	40,581	44,004					52	48	4,950		4,250		17,380		10.00		1,720,800		57,218		8,461	57,466			71	
10/29/2018	5,560	6,320	4,440	4,930	13,990	15,180	7.70	7.00	1,684,800	1,643,040	38,835	44,144	4,439	40,474	4,986	43,433	54	52	6,260		5,000		15,180		8.80		2,538,720		72,361						70	
10/30/2018	5,850	6,040	4,660	4,680	13,570	13,570	8.52	7.47	1,725,120	1,661,760	40,861	42,188					56	58	5,690		4,610		15,210		10.00		2,200,320		65,772		7,885	57,985			79	
10/31/2018	6,130	6,590	4,660	5,840	13,390	14,210	8.50	7.60	1,601,280	1,559,520	42,817	46,030	4,825	43,305	5,250	43,550	57	61	4,660		4,580		16,110		10.00		2,128,320		53,866						99	
MMAVG																																				
Min.	1,000	910	960	890	2,990	1,040	3	4	1,317,600	1,206,720	6,985	6,356	4,042	40,474	1,186	10,243	30	21	4,650	4,620	2,290	3,530	10,630	15,420	5	6	1,306,080	2,016,000	47,991	47,682	4,248	34,107		0	57	51
Max.	11,450	14,090	9,000	13,020	15,430	15,240	9	9	1,825,920	1,746,720	79,975	98,415	5,292	49,980	27,357	50,036	70	61	7,340	6,220	5,780	4,770	18,440	16,750	10	7	2,592,000	2,592,000	81,839	64,195	8,609	57,985		0	99	55
Total									47,697,120	46,215,360	1,324,170	1,341,423	63,592	606,685	87,363	578,920											59,967,360	9,360,000	1,752,444	217,871	115,255	847,461		0		
Average	6,115	6,195	4,785	4,897	11,750	12,176	7	7	1,538,617	1,490,818	42,715	43,272	4,542	43,335	6,240	41,351	52	52	5,944	5,278	4,673	4,035	15,802	15,898	7	6	2,221,013	2,340,000	64,905	54,468	7,203	52,966		0	69	53

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
11/01/2018	10.32	17.36	6.31	0.30	0.266	0.125	22,098		52.0	16.1	7.75	222	282	19,107	24,271		7.72	6.0	202	158	177	17,386	15,234		
11/02/2018	13.23	36.22	9.53	1.87	0.259	6.258			55.0	15.5	7.59	116	232	12,799	25,598		7.73	4.0	166	127	99	18,316	10,923		
11/03/2018	29.47	36.87	15.60	2.00	0.293	14.273			55.0	14.6	7.84	69	84	16,959	20,646		7.73	2.0	89	69	51	21,874	12,535		
11/04/2018	18.72	21.33	12.38	0.00	0.251	6.100			47.0	15.5	7.75	78	102	12,178	15,925		7.83	1.5	80	65	69	12,490	10,773		
11/05/2018	16.32	23.64	13.41	0.45	0.274	1.308	19,360		38.0	15.4	7.72	120	154	16,333	20,961		7.75	3.0	101	84	105	13,747	14,291		
11/06/2018	20.02	26.84	14.64	0.50	0.301	7.095			43.0	14.8	7.69	81	88	13,524	14,693		7.74	1.5	66	55	63	11,020	10,519		
11/07/2018	18.19	20.02	11.67	0.00	0.268	3.413			48.0	14.9	7.72	126	158	19,115	23,969		7.73	1.5	77	69	78	11,681	11,833		
11/08/2018	14.99	16.71	10.46	0.00	0.288	1.543			38.0	15.4	7.64	177	110	22,128	13,752		7.53	4.0	106	93	99	13,252	12,377		
11/09/2018	14.62	31.64	7.02	1.00	0.274	5.067	42,771		44.0	15.7	7.77	245	244	29,873	29,751		7.65	5.0	143		122	17,436	14,876		
11/10/2018	20.34	22.25	12.72	0.00	0.288	5.339			44.0	14.1	7.86	99	136	16,794	23,070		7.79	5.0	100		87	16,964	14,758		
11/11/2018	15.54	19.13	11.02	0.00	0.273	2.974			33.0	15.0	7.82	129	144	16,719	18,663		7.76	5.0	125	103	96	16,200	12,442		
11/12/2018	14.07	24.64	11.21	0.70	0.266	0.655	103,102		29.0	15.0	7.44	189	270	22,178	31,683		7.59	4.5	185	151	131	21,709	15,372		
11/13/2018	23.43	35.21	15.75	0.70	0.249	6.543			38.0	12.2	7.70	129	146	25,207	28,529		7.67	1.5	108	93	87	21,104	17,000		
11/14/2018	18.30	21.00		0.00	0.261	0.378			28.0	14.3	7.68	120	124	18,315	18,925		7.62	3.5	111	91	102	16,941	15,567		
11/15/2018	15.46	19.22	12.26	0.84	0.247	0.000	63,850		22.0	14.6	7.56	105	188	13,538	24,240		7.57	4.0	131	119	105	16,891	13,538		
11/16/2018	15.56	19.91	11.48	0.00	0.269	0.000	7,741		14.1	34.0	7.50	137	156	17,779	20,244		7.40	6.0	105	92	117	13,626	15,183		
11/17/2018	14.73	17.66	11.05	0.00	0.233	0.000	41,028		38.0	13.9	7.23	189	254	23,218	31,203		7.28	5.0	152	130	123	18,673	15,110		
11/18/2018	14.52	17.67	11.20	0.02	0.250	0.000	1,451		32.0	13.4	7.48	117	122	14,168	14,774		7.50	5.5	128	110	105	15,500	12,715		
11/19/2018	15.14	18.67	12.74	0.33	0.250	0.000	42,880		38.0	13.3	7.45	138	224	17,425	28,284		7.46	4.5	173	143	129	21,844	16,289		
11/20/2018	16.05	18.59	11.86	0.24	0.254	0.000	14,856		31.0	12.9	7.51	114	158	15,260	21,149		7.49	5.5	155	133	125	20,748	16,732		
11/21/2018	14.66	18.77	10.22	0.00	0.246	0.000	109,006		28.0	13.1	7.38	63	262	7,703	32,033		7.23	3.0	109	86	78	13,327	9,537		
11/22/2018	12.99	18.40	9.80	0.00	0.257	0.000			7.0	13.4	7.35	99	222	10,725	24,051		7.15	5.0	125	101	90	13,542	9,750		
11/23/2018	12.03	16.25	9.06	0.00	0.246	0.000	24,279		9.0	13.4	7.43	177	254	17,758	25,484		7.26	4.0	112	95	99	11,237	9,933		
11/24/2018	11.88	16.63	9.21	0.10	0.258	0.000	31,804		26.0	12.7	7.01	183	158	18,131	15,655		7.03	7.0	171	142	150	16,943	14,862		
11/25/2018	12.91	16.83	9.85	0.00	0.245	0.000			38.0	12.5	7.56	174	186	18,734	20,027		7.58	9.5	254	200	194	27,348	20,888		
11/26/2018	16.25	34.31	10.79	1.31	0.289	9.130	13,317		39.0	13.0	7.58	171	256	23,175	34,694		7.55	6.0	185	154	135	25,072	18,296		
11/27/2018	25.66	30.03	16.94	0.04	0.263	11.018			34.0	11.3	7.64	105	126	22,470	26,965		7.55	2.5	83	70	78	17,762	16,692		
11/28/2018	19.55	23.17	13.81	0.00	0.278	4.206			33.0	12.0	7.66	105	124	17,120	20,218		7.61	1.0	66	48	69	10,761	11,250		
11/29/2018	16.79	20.01	12.65	0.00	0.265	0.024	54,615		36.0	12.7	7.42	204	138	28,566	19,324		7.40	0.6	88	64	81	12,323	11,342		
11/30/2018	14.94	18.94	11.08	0.00	0.277	0.000	78,629		36.0	12.7	6.54	96	130	11,962	16,198		7.42	0.1	70	64	60	8,722	7,476		
MMAVG	9.49																								
Min.	10.3	16.3	6.3	0.0		0.000	1,451		7.0	11.3	6.54	63	84	7,703	13,752		7.03	0.1	66	48	51	8722	7476		
Max.	29.5	36.9	16.9	2.0		14.273	109,006		55.0	34.0	7.86	245	282	29,873	34,694		7.83	9.5	254	200	194	27348	20888		
Total	496.7	677.9	335.7	10.4		85.449	670,787																		
Average	16.6	22.6	11.6	0.3		2.848	41,924		35.10	14.58	7.54	136	174	17965	22833		7.54	3.9	126	104	103	16481	13603		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
11/01/2018	7.08	<0.10	10.2	5.6	7.8	878	671	20	16.5	7.5	4.8	0.00	0.00	0.00	0.00						96.486	96.383	7.35	3.7	8.6	5.4	7.03	9.9	23.2	16.4					
11/02/2018	6.93	<0.10	44.4	31.6	25.8	4,899	2,847	13	16.6	6.6	3.6	0.00	0.00	0.00	0.00						77.759	80.862	7.44	4.1	11.0	8.4	7.03	14.7	52.6	44.6					
11/03/2018	7.17	1.30	43.6	31.0	45.0	10,716	11,060	24	14.9	7.2	15.5	0.00	0.00	0.00	0.00						34.783	48.095	7.63	2.9	4.6	1.4	7.23	14.7	51.8	41.4					
11/04/2018	7.37	0.01	32.8	24.2	34.5	5,121	5,386	25	14.9	7.9	8.8	0.00	0.00	0.00	0.00						55.769	67.843	7.45	3.9	6.4	5.4	7.27	6.4	22.6	19.4					
11/05/2018	7.08	0.20	62.4	46.2	29.7	8,493	4,042	50	15.1	7.7	14.5	0.00	0.00	0.00	0.00	0.68	93	0.97	132	0.06	75.250	59.481	7.47	4.4	7.4	5.0	7.01	43.2	205.0	163.0	58.00	430.00	2.40	33.00	<0.20
11/06/2018	6.88	0.30	31.6	24.8	31.8	5,276	5,310	54	14.9	7.1	11.6	0.00	0.00	0.00	0.00						60.741	64.091	7.61	3.1	6.6	3.2	7.37	7.4	26.2	22.4					
11/07/2018	7.19	0.10	22.4	17.0	26.4	3,398	4,005	800	14.7	7.8	10.6	0.00	0.00	0.00	0.00						79.048	85.823	7.53	3.5	8.0	6.8	7.19	4.6	12.0	10.2					
11/08/2018	6.97	<0.10	18.2	13.2	18.0	2,275	2,250	50	15.0	7.6	7.4	0.00	0.00	0.00	0.00						89.831	83.455	7.22	4.1	8.4	7.8	6.87	5.4	17.8	15.2					
11/09/2018	6.93	0.10	29.8		21.9	3,634	2,670	34	15.0	7.6	3.4	0.00	0.00	0.00	0.00						91.061	87.787	7.39	7.8	12.8		7.12	6.0	20.0						
11/10/2018	7.58	0.30	26.8		28.8	4,546	4,886	60	13.9	8.2	13.2	0.00	0.00	0.00	0.00						70.909	80.294	7.59	4.3	10.4		7.29	3.8	12.4						
11/11/2018	7.42	0.30	28.8	23.4	24.6	3,733	3,188	70	14.0	8.1	12.8	0.00	0.00	0.00	0.00						80.930	80.000	7.44	4.1	12.8	11.6	7.23	4.8	13.6	12.0					
11/12/2018	7.24	0.50	13.0	9.4	4.5	1,525	528	135	14.3	7.7	9.9	0.00	0.00	0.00	0.00	0.27	32	0.68	80	0.04	97.619	95.185	7.15	9.3	12.8	11.6	7.06	6.2	20.6	16.2					
11/13/2018	6.91	0.30	35.6	25.6	25.2	6,956	4,924	540	13.4	7.7	17.9	0.00	0.00	0.00	0.00						80.465	75.616	7.48	10.2	15.6	12.4	7.27	6.2	20.4	15.8					
11/14/2018	6.95	0.30	13.6	8.0	13.4	2,076	2,045	116	13.2	8.1	9.2	0.00	0.00	0.00	0.00						88.833	89.032	7.41	15.5	18.6	15.4	7.18	8.1	24.6	20.8					
11/15/2018	6.95	0.10	13.2	11.0	11.1	1,702	1,431	27	13.2	7.7	5.7	0.00	0.00	0.00	0.00						89.429	92.979	7.37	18.3	18.4	15.4	7.06	5.9	19.2	16.0					
11/16/2018	6.79	0.10	17.4	14.6	9.9	2,258	1,285	31	13.7	7.7	4.5	0.00	0.00	0.00	0.00						92.774	88.846	8.15	15.8	16.4	14.4	8.05	6.9	22.2	18.6					
11/17/2018	6.71	0.10	164.9	128.9	27.0	20,258	3,317	230	13.8	7.1	5.0	0.00	0.00	0.00	0.00						85.714	35.079	7.14	43.2	292.0	225.8	6.91	11.1	25.2	21.2					
11/18/2018	6.80	0.04	37.2	29.2	21.2	4,505	2,567	690	13.7	6.7	12.2	0.00	0.00	0.00	0.00						81.880	69.508	7.29	41.4	69.6	54.6	7.08	9.3	32.4	27.6					
11/19/2018	6.76	0.10	18.4	12.2	13.2	2,323	1,667	310	13.7	7.3	5.1	0.00	0.00	0.00	0.00	0.40	51	1.95	246	0.05	90.435	91.786	7.34	17.7	20.8	14.4	6.87	10.8	39.0	29.6		87.00		15.00	
11/20/2018	6.73	0.10	12.4	10.2	9.3	1,660	1,245	13	13.1	7.5	4.3	0.00	0.00	0.00	0.00						91.842	92.152	7.17	10.8	13.8	9.0	6.97	8.7	30.8	23.6					
11/21/2018	6.81	0.10	14.6	10.4	9.3	1,785	1,137	7	13.0	7.8	4.9	0.00	0.00	0.00	0.00						85.238	94.427	7.18	15.2	15.4	13.0	6.64	8.8	29.0	23.6					
11/22/2018	6.59	0.00	15.2	11.4	9.8	1,647	1,062	64	12.7	7.8	4.7	0.00	0.00	0.00	0.00						90.101	93.153	7.13	7.9	14.2	9.6	6.85	19.8	42.0	35.8					
11/23/2018	6.68	0.00	11.8	10.4	14.0	1,184	1,405	174	12.7	7.8	4.1	0.00	0.00	0.00	0.00						92.090	95.354					8.13	40.2	57.4	51.4					
11/24/2018	6.59	0.10	49.2	38.8	18.6	4,875	1,843	39	12.8	7.3	6.0	0.00	0.00	0.00	0.00						89.836	68.861					8.00	41.4	165.4	133.4					
11/25/2018	6.51	0.10	24.6	18.6	27.6	2,649	2,972	24	13.3	7.3	4.2	0.00	0.00	0.00	0.00						84.138	86.774					7.03	12.6	31.8	28.0					
11/26/2018	6.71	<0.10	59.2	42.8	38.4	8,023	5,204	13	13.1	7.2	3.0	0.00	0.00	0.00	0.00	0.56	76	4.31	584	0.11	77.544	76.875	7.36	9.0	16.6	14.4	7.15	15.5	49.2	39.2					
11/27/2018	6.92	0.40	46.4	36.0	38.4	9,930	8,218	11500	10.7	7.9	18.1	0.00	0.00	0.00	0.00						63.429	63.175	7.49	3.8	9.6	8.4	7.26	5.1	12.2	9.6					
11/28/2018	6.95	0.40	27.2	20.6	25.2	4,435	4,109	500	11.5	7.2	16.2	0.00	0.00	0.00	0.00						76.000	78.065	8.11	3.8	10.4	7.4	8.10	3.9	12.4	8.4					
11/29/2018	6.84	<0.10	22.0	11.8	15.3	3,081	2,142	10	11.8	6.2	5.6	0.00	0.00	0.00	0.00						92.500	84.058	7.15	14.3	19.6	15.2	6.70	4.3	16.0	6.4					
11/30/2018	6.61	0.10	15.4	14.2	14.1	1,919	1,757	31	12.1	6.8	4.1	0.00	0.00	0.00	0.00						85.313	88.154	7.26	18.6	17.2	14.2	6.73	4.4	10.4	10.0					
MMAVG													MMAVG			0.48																			
Min.	6.5	0.00	10	6	5	878	528	7	10.7	6.2	3			0.00	0.00	0.27	32	0.68	80	0.04	34.78	35.08	7.1	2.9	4.6	1.4	6.6	3.8	10.4	6.4	58.0	87	2.40	15.0	<0.20
Max.	7.6	1.30	165	129	45	20258	11060	11500	16.6	8.2	18			0.00	0.00	0.68	93	4.31	584	0.11	97.62	96.38	8.2	43.2	292.0	225.8	8.1	43.2	205.0	163.0	58.0	430	2.40	33.0	<0.20
Total																																			
Average	6.9	<0.20	32	24	21	4525	3172	70	13.7	7.5	8			0.00	0.00	0.48	63	1.98	261	0.07	81.59	79.77	7.4	11.1	25.1	20.4	7.2	11.7	37.2	31.4	58.0	259	2.40	24.0	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
11/01/2018	5,610	6,230	4,490	5,010	12,860	14,900	8.57	7.20	1,571,040	1,568,160	39,184	43,515					54	55	6,400		5,190		15,500		10.00		2,321,280		73,979		7,655	57,731			63	
11/02/2018	5,310	5,670	4,320	4,600	13,940	14,540	5.73	6.49	1,559,520	1,556,640	37,089	39,604	3,177	29,623	3,667	29,508	57	53	5,860		4,700		15,730		8.99		2,376,000		67,737						63	
11/03/2018	5,200	5,420	3,780	4,260	14,550	13,790	8.48	8.21	1,444,320	1,454,400	36,321	37,857					50	52	4,540		4,000		15,680		10.00		2,044,800		86,694		7,549	57,651			71	
11/04/2018	6,240	6,310	4,310	4,460	12,180	12,930	9.25	8.95	1,490,400	1,463,040	43,585	44,074	4,826	43,292	4,801	43,086	53	54	6,990		4,990		16,610		10.00		2,040,480		80,799						82	
11/05/2018	5,040	6,340	3,920	4,890	13,470	14,520	7.98	8.42	1,461,600	1,532,160	35,203	44,283					50	49	5,850		4,820		17,820		10.00		1,900,800		67,622		5,486	39,600			75	
11/06/2018	4,760	5,220	3,820	4,130	16,970	13,700	8.63	8.66	1,536,480	1,520,640	33,247	36,460					50	48	5,010		3,980		14,650		10.00		3,496,320		57,912		7,781	60,000			62	
11/07/2018	5,100	5,480	4,020	4,220	14,880	11,220	8.39	8.46	1,476,000	1,261,440	35,622	38,276	5,462	41,503	5,004	41,958	49	47	6,020		4,660		15,460		10.00		3,644,640		69,587		2,210	18,087			73	
11/08/2018	5,230	5,940	4,050	4,610	13,890	12,470	9.17	9.08	1,523,520	1,523,520	36,530	41,489					50	47	6,430		4,940		15,040		10.00		3,672,000		74,326		5,021	40,000			95	
11/09/2018	4,570	4,780	3,770	3,550	13,740	13,360	8.90	9.03	1,461,600	1,457,280	31,920	33,387					53	54	6,000		4,800		15,960		10.00		3,376,800		69,355		2,102	17,531			70	
11/10/2018	3,160	3,510	2,560	2,850	14,420	7,370	10.00	9.70	1,473,120	1,454,400	22,072	24,516	5,073	44,098	3,987	44,282	57	57	7,480		5,890		14,680		10.00		2,858,400		86,463		7,290	53,926			91	
11/11/2018	4,210	4,100	3,360	3,600	12,790	15,900	9.81	9.39	1,447,200	1,432,800	29,406	28,637					55	63	7,010		5,940		14,410		10.00		2,808,000		81,030		2,674	22,480			93	
11/12/2018	4,130	4,760	3,310	3,850	14,250	15,840	3.39	3.69	1,440,000	1,490,400	28,847	33,247					58	57	7,730		6,060		14,220		10.00		2,844,000		89,353		1,184	9,957			83	
11/13/2018	4,020	3,990	3,150	3,200	14,040	15,060	8.46	8.68	1,401,120	1,497,600	28,079	27,869	1,951	17,071	1,533	15,060	52	50	5,430		4,280		14,950		8.30		2,764,800		62,767		5,867	51,085			70	
11/14/2018	3,260	3,230	2,460	2,670	14,840	11,730	9.86	9.50	1,483,200	1,494,720	22,770	22,561					52	56	4,660		3,610		14,780		7.76		2,844,000		53,866						79	
11/15/2018	2,490	2,420	1,830	2,010	13,310	4,050	9.83	9.58	1,296,000	1,277,280	17,392	16,903			1,995	30,000	52	54	4,220		3,390		15,190		7.83		2,844,000		48,780						92	
11/16/2018	3,550	3,710	2,970	3,010	15,630	13,220	8.67	8.49	1,468,800	1,483,200	24,796	25,913			4,473	42,701	56	54	5,630		4,460		15,250		6.90		2,836,800		65,079		3,816	30,000			78	
11/17/2018	2,940	2,990	2,340	2,320	15,820	7,220	7.29	9.06	1,468,800	1,467,360	20,535	20,884			4,798	43,517	54	57	5,830		4,530		15,250		10.00		2,772,000		67,390		6,832	53,718			89	
11/18/2018	2,620	2,670	2,190	2,190	10,170	3,630	7.31	8.78	1,278,720	1,104,480	18,300	18,649			916	30,264	57	60	5,380		4,660		14,390		10.00		2,656,800		62,189		2,129	16,740			93	
11/19/2018	3,320	3,620	2,620	2,940	15,640	14,020	6.97	8.08	1,368,000	1,368,000	23,189	25,285	4,649	35,640	3,004	43,821	60	55	5,750		4,530		14,320		10.00		2,777,760		66,466		3,210	26,750			78	
11/20/2018	3,350	3,380	2,660	2,620	14,820	14,430	7.87	8.77	1,411,200	1,501,920	23,399	23,608	10,939	86,375	2,273	20,010	54	56	5,290		4,170		13,390		10.00		3,096,000		61,148		4,684	41,940			87	
11/21/2018	3,600	3,900	3,010	3,150	15,440	14,740	7.67	8.15	1,445,760	1,464,480	25,145	27,241	5,508	42,624	5,181	43,200	58	54	4,150		3,270		8,570		10.00		2,927,520		47,971		5,007	44,835			72	
11/22/2018	3,200	3,330	2,540	2,730	11,770	14,320	8.22	8.07	1,468,800	1,494,720	22,351	23,259					56	60	2,510		2,060		4,770				2,927,520		29,014						76	
11/23/2018	2,860	4,120	2,620	3,710	13,780	11,510	8.47	8.11	1,448,640	1,483,200	19,976	28,777					87	66	870		70		2,800		10.00		2,836,800		10,057						115	
11/24/2018	4,100	3,560	3,390	3,480	11,430	11,070	8.20	7.20	1,224,000	1,441,440	28,637	24,866					54	67	5,000		4,390		16,210		1.60		3,787,200		57,796						80	
11/25/2018	5,130	5,670	4,130	4,520	14,710	16,380	7.40	4.80	1,468,800	1,523,520	35,832	39,604	5,207	42,444	5,931	43,417	51	48	5,510		4,380		13,530		5.78		3,008,160		63,691						69	
11/26/2018	5,020	5,600	4,020	4,370	14,500	13,980	7.78	5.10	1,396,800	1,442,880	35,063	39,115					56	55	5,300		4,180		13,180				3,008,160		61,264		9,764	86,532			96	
11/27/2018	4,980	5,360	3,870	4,180	14,820	16,770	8.83	6.41	1,225,440	1,601,280	34,784	37,438	5,301	42,859	5,306	43,221	56	58	7,070		5,530		12,110		10.10		3,582,720		81,724						105	
11/28/2018	5,280	5,740	4,130	4,490	15,940	14,150	9.07	5.78	1,470,240	1,543,680	36,879	40,092					51	52	7,430		5,790		12,380				3,548,160		85,885		5,008	48,502			92	
11/29/2018	4,870	5,390	3,770	4,210	15,470	13,560	8.88	4.42	1,454,400	1,536,480	34,016	37,648					53	52	7,000		5,470		12,580		8.25		3,600,000		80,915		9,441	86,214			99	
11/30/2018	3,730	4,190	3,050	3,330	15,780	15,160	8.14	2.50	1,416,960	1,519,200	26,053	29,266			6,316	49,955	56	55	5,760		4,630		12,540		7.85		3,510,720		66,581		3,699	35,144			118	
MMAVG																																				
Min.	2,490	2,420	1,830	2,010	10,170	3,630	3	3	1,224,000	1,104,480	17,392	16,903	1,951	17,071	916	15,060	49	47	870		70		2,800		2		1,900,800		10,057		1,184	9,957			62	
Max.	6,240	6,340	4,490	5,010	16,970	16,770	10	10	1,571,040	1,601,280	43,585	44,283	10,939	86,375	6,316	49,955	87	67	7,730		6,060		17,820		10		3,787,200		89,353		9,764	86,532			118	
Total									43,080,480	43,960,320	886,222	954,323	52,093	425,529	59,185	564,000											88,712,640		1,943,225		108,409	898,423				
Average	4,229	4,554	3,349	3,639	14,195	12,851	8	8	1,436,016	1,465,344	29,541	31,811	5,209	42,553	3,946	37,600	55	55	5,604		4,446		13,732		9		2,957,088		64,774		5,162	42,782			84	

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
12/01/2018	13.90	22.25	10.86	0.50	0.292	0.115	38,430		38.0	12.6	6.54	114	130	13,216	15,070		7.42	0.1	6320	64	63	732,652	7,303		
12/02/2018	19.30	26.68	14.21	0.49	0.264	5.408			38.0	12.6	7.61	96	134	15,452	21,569										
12/03/2018	17.34	22.67	12.28	0.00	0.278	0.000	67,414		41.0	11.3	7.55		186		26,899		7.52	0.5	105	91	114	15,185	16,486		
12/04/2018	14.88	18.27	11.43	0.00	0.269	0.000	105,526		29.0	11.8	7.56	161	220	19,980	27,302		7.60	0.1	77	66	123	9,556	15,264		
12/05/2018	13.50	17.81	9.86	0.00	0.276	0.000	62,260		23.0	11.9	7.46	194	202	21,842	22,743		7.39	0.3	81	75	99	9,120	11,146		
12/06/2018	12.76	16.36	9.80	0.00	0.277	0.000	65,616		36.0	12.7	7.28	168	194	17,878	20,645		7.23	0.5	84	80	69	8,939	7,343		
12/07/2018	11.81	15.54	7.96	0.00	0.279	0.000	80,362		33.0	12.2	7.40	126	197	12,410	19,404		7.25	1.0	83	40	126	8,175	12,410		
12/08/2018	10.75	15.43	8.28	0.00	0.277	0.000	7,953		19.0	12.2	7.51	60	173	5,379	15,510		7.34	0.2	104	81	75	9,324	6,724		
12/09/2018	10.84	15.90	8.15	0.00	0.272	0.000			18.0	12.2	7.48	179	178	16,183	16,092		7.56	0.3	95	86	99	8,589	8,950		
12/10/2018	10.25	13.91	8.54	0.00	0.283	0.000	59,569		18.0	11.8	7.57	192	270	16,413	23,081		7.54	0.5	88	72	102	7,523	8,719		
12/11/2018	9.87	14.87	7.18	0.00	0.274	0.000	91,177		15.0	11.7	7.58	276	424	22,719	34,902		7.62	0.5	119	111	144	9,796	11,853		
12/12/2018	9.55	15.01	7.70	0.00	0.274	0.000	63,695		23.0	11.7	7.44	99	306	7,885	24,372		7.33	1.0	109	106	135	8,682	10,752		
12/13/2018	8.98	13.43	7.23	0.00	0.273	0.000	59,352		18.0	12.6	7.50	306	360	22,917	26,962		7.43	1.3	100	87	171	7,489	12,807		
12/14/2018	9.11	12.25	5.97	0.00	0.308	0.000	21,706		27.0	12.3	7.52	252	279	19,146	21,198		7.62	1.4	155		168	11,776	12,764		
12/15/2018	9.37	14.13	5.93	0.00	0.249	0.000	18,663		40.0	11.7	7.61	189	255	14,770	19,927		7.69	0.3	113		108	8,830	8,440		
12/16/2018	10.22	26.22	6.19	0.48	0.325	0.177	3,028		33.0	11.5	7.68	189	270	16,109	23,013		7.81	0.5	88	78	99	7,501	8,438		
12/17/2018	10.51	14.93	6.55	0.00	0.238	0.000	64,287		34.0	10.8	7.55	191	312	16,742	27,348		7.59	0.4	115	97	159	10,080	13,937		
12/18/2018	9.23	13.79	6.38	0.00	0.263	0.000	68,801		24.0	11.2	7.65	197	280	15,165	21,554		7.53	4.0	258	221	252	19,860	19,399		
12/19/2018	8.92	13.39	5.66	0.00	0.291	0.000	63,475		27.0	10.9	7.63	211	232	15,697	17,259		0.59	0.6	177	159	225	13,168	16,738		
12/20/2018	8.80	12.87	6.14	0.49	0.258	0.000	42,580		48.0	12.1	7.57	525	378	38,531	27,742		7.36	10.0	233	196	224	17,100	16,440		
12/21/2018	16.84	30.40	9.52	1.41	0.271	6.049			52.0	9.9	7.63	54	140	7,584	19,662		7.54	7.0	152		84	21,348	11,797		
12/22/2018	14.81	19.26	9.79	0.00	0.297	0.614	1,435		51.0	10.3	7.62	69	210	8,523	25,938		7.66	1.0	91		81	11,240	10,005		
12/23/2018	12.61	16.51	9.28	0.00	0.268	0.529	4,414		29.0	10.4	7.67	179	278	18,825	29,237		7.67	3.0	107	88	102	11,253	10,727		
12/24/2018	11.69	16.81	8.15	0.00	0.264	0.000	20,105		33.0	11.5	7.55	72	196	7,020	19,109		7.49	3.0	82	72	102	7,995	9,944		
12/25/2018	10.49	14.62	7.52	0.00	0.272	0.000			28.0	10.6	7.55	152	242	13,298	21,172		7.47	1.5	88	86	110	7,699	9,624		
12/26/2018	10.18	15.78	7.39	0.00	0.276	0.000	43,887		37.0	11.2	7.47	300	106	25,470	9,000		7.48	1.0	80	78	173	6,792	14,688		
12/27/2018	9.92	13.83	7.95	0.05	0.279	0.000	34,996		31.0	11.4	7.51	333	242	27,550	20,021		7.55	1.5	110	85	146	9,101	12,079		
12/28/2018	11.26	21.87	8.79	0.34	0.287	0.121			33.0	10.5	7.49	183	144	17,185	13,523		7.54	1.5	66	45	131	6,198	12,302		
12/29/2018	10.72	15.01	8.11	0.00	0.273	0.000	9,359		50.0	10.4	7.55	170	636	15,199	56,861		7.62	1.5	78	65	141	6,974	12,606		
12/30/2018	9.82	14.09	8.08	0.00	0.264	0.000	5,950		25.0	10.6	7.38	173	146	14,168	11,957		7.40	0.5	78	73	128	6,388	10,483		
12/31/2018	9.99	22.47	7.59	0.67	0.270	1.335	24,952		39.0	11.1	7.35	264	248	21,996	20,663		7.43	2.0	97	79	146	8,082	12,164		
MMAVG	9.91																								
Min.	8.8	12.3	5.7	0.0		0.000	1,435		15.0	9.9	6.54	54	106	5,379	9,000		0.59	0.1	66	40	63	6198	6724		
Max.	19.3	30.4	14.2	1.4		6.049	105,526		52.0	12.7	7.68	525	636	38,531	56,861		7.81	10.0	6320	221	252	732652	19399		
Total	358.2	536.4	258.5	4.4		14.348	1,128,992																		
Average	11.6	17.3	8.3	0.1		0.463	43,423		31.94	11.47	7.50	189	244	16842	22572		7.28	1.6	318	92	130	34214	11744		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
12/01/2018	6.70	0.10	16.2	14.2	8.7	1,878	1,009	29	12.2	6.3	4.1	0.00	0.00	0.00	0.00						92.368	87.538	7.26	18.5	17.2	14.2	6.73	3.8	10.4	10.0					
12/02/2018	6.70	0.10	25.2	19.4	4.7	4,056	757	1730	12.2	6.3	4.1	0.00	0.00	0.00	0.00						95.104	81.194	7.16	3.2	10.2	8.8	7.15	3.4	14.4	12.8					
12/03/2018	6.63	<0.10	25.2	19.8	360.0	3,644	52,062	8	11.6	6.5	3.5	0.00	0.00	0.00	0.00	0.37	54	2.19	317	0.03		86.452	7.36	7.8	55.8	44.6	6.93	6.2	16.4	13.6					
12/04/2018	6.73	4.00	12.8	10.0	23.7	1,588	2,941	440	12.0	5.8	27.3	0.00	0.00	0.00	0.00						85.280	94.182	7.30	36.6	12.4	10.6	7.13	6.6	15.4	14.2					
12/05/2018	6.71	<0.10	8.6	8.4	14.1	968	1,588	13	11.7	6.5	3.5	0.00	0.00	0.00	0.00						92.732	95.743	7.08	18.5	9.6	8.2	6.78	9.9	24.6	22.2					
12/06/2018	6.52	<0.10	4.0	3.8	6.8	426	724	23	12.1	5.8	2.0	0.00	0.00	0.00	0.00						95.952	97.938	7.13	6.8	9.4	9.2	6.87	10.0	22.2	20.4					
12/07/2018	6.72	0.10	8.2	7.0	5.8	808	571	1	12.2	6.5	2.1	0.00	0.00	0.00	0.00						95.397	95.838	7.12	8.2	8.6	6.4	7.00	6.2	27.6	18.4					
12/08/2018	6.74	0.01	5.9	3.9	5.3	529	475	0	11.9	6.7	1.6	0.00	0.00	0.00	0.00						91.167	96.590	7.10	2.0	10.6	2.4	6.86	11.3	24.4	19.8					
12/09/2018	6.81	0.01	6.4	5.4	5.8	579	524	3	11.9	7.7	1.4	0.00	0.00	0.00	0.00						96.760	96.404	7.21	5.9	8.6	7.2	6.97	10.1	19.0	17.8					
12/10/2018	6.72	0.10	9.2	2.6	5.9	786	504	24	12.1	7.3	3.9	0.00	0.00	0.00	0.00	0.19	16	0.13	11	0.02	96.927	96.593	7.22	4.1	9.0	7.0	7.00	7.8	29.6	25.8					
12/11/2018	6.74	0.10	10.6	8.2	6.3	873	519	20	12.0	7.1	3.0	0.00	0.00	0.00	0.00						97.717	97.500	7.31	5.7	9.8	9.0	7.09	28.8	393.4	370.4	37.00	130.00	0.57	19.00	<0.20
12/12/2018	6.86	0.10	4.2	3.4	5.2	335	414	16	12.0	6.5	5.8	0.00	0.00	0.00	0.00						94.747	98.627	7.24	11.7	9.4	8.6	7.07	21.2	96.8	90.8					
12/13/2018	6.89	0.10	7.8	-1.6	6.4	584	479	28	12.0	7.7	1.1	0.00	0.00	0.00	0.00						97.908	97.833	7.32	4.2	10.2	15.6	7.13	16.0	26.0	22.8					
12/14/2018	6.91	0.10	11.2		9.2	851	699	19	12.1	7.6	3.1	0.00	0.00	0.00	0.00						96.349	95.986	7.32	10.2	13.6		7.03	52.2	228.8						
12/15/2018	6.93	<0.10	9.2		5.2	719	406	1	12.6	7.4	3.3	0.00	0.00	0.00	0.00						97.249	96.392	7.34	4.0	10.2		7.21	32.0	110.0						
12/16/2018	6.99	<0.10	25.8	20.2	18.6	2,199	1,585	3	12.5	7.6	2.7	0.00	0.00	0.00	0.00						90.159	90.444	7.40	15.0	25.8	22.6	7.28	36.0	167.6	157.2					
12/17/2018	6.89	0.10	8.4	5.8	5.2	736	456	7	11.1	8.0	3.1	0.00	0.00	0.00	0.00	0.16	14	0.17	15	0.03	97.277	97.308	7.43	4.9	7.6	6.8	7.37	23.3	134.5	119.5					
12/18/2018	6.91	0.10	8.6	5.6	6.0	662	462	29	11.4	7.9	4.4	0.00	0.00	0.00	0.00						96.954	96.929	7.40	5.5	10.2	8.2	7.05	8.9	20.2	16.4					
12/19/2018	7.01	0.10	5.6	4.8	6.9	417	513	34	11.5	7.9	4.5	0.00	0.00	0.00	0.00						96.730	97.586	7.22	3.8	6.4	7.2	7.05	4.7	17.8	15.6					
12/20/2018	6.82	<0.10	6.4	6.2	6.1	470	448	30	11.7	7.8	2.6	0.00	0.00	0.00	0.00						98.838	98.307	7.19	3.5	6.8	6.4	6.89	6.1	17.0	14.6					
12/21/2018	6.71	<0.10	66.8		42.0	9,382	5,899	28	11.7	6.6	2.2	0.00	0.00	0.00	0.00						22.222	52.286	7.20	7.5	23.2		6.95	7.2	20.0						
12/22/2018	6.70	0.00	17.6		18.0	2,174	2,223	1	11.1	6.6	1.5	0.00	0.00	0.00	0.00						73.913	91.619	7.25	27.6	156.2		6.93	17.9	31.6						
12/23/2018	6.68	0.00	17.8	13.6	24.8	1,872	2,608	0	11.3	6.6	2.4	0.00	0.00	0.00	0.00						86.145	93.597	7.27	10.8	10.4	8.0	6.92	9.9	28.8	26.2					
12/24/2018	6.78	<0.10	8.4	7.6	5.3	819	517	0	11.1	6.7	4.3	0.00	0.00	0.00	0.00						92.639	95.714	7.20	5.7	10.0	6.6	6.90	6.3	22.2	18.8					
12/25/2018	6.69	0.00	7.6	5.2	7.3	665	639	0	11.1	8.0	2.7	0.00	0.00	0.00	0.00	0.15	13	0.75	66	0.09	95.197	96.860	7.11	5.6	6.6	6.4	6.88	8.9	14.8	10.8					
12/26/2018	6.64	<0.10	7.0	4.2	5.2	594	441	3	10.3	6.9	2.1	0.00	0.00	0.00	0.00						98.267	93.396	6.80	6.4	9.6	2.6	6.80	6.1	11.0	9.2					
12/27/2018	6.62	0.20	9.0	7.2	10.0	745	827	20	11.0	6.8	3.2	0.00	0.00	0.00	0.00						96.997	96.281	7.12	5.5	11.0	8.0	6.80	5.6	15.4	10.8					
12/28/2018	6.62	<0.10	2.4	8.4	7.8	225	732	11	11.2	8.1	2.1	0.00	0.00	0.00	0.00						95.738	98.333	8.03	4.1	-0.8	6.0	7.99	5.6	8.0	13.2					
12/29/2018	6.65	<0.10	8.0	6.8	6.4	715	572	3	10.8	7.9	2.7	0.00	0.00	0.00	0.00						96.235	98.742	8.03	4.6	8.8	8.8	7.87	6.7	21.0	21.6					
12/30/2018	6.71	<0.10	8.2	7.2	6.3	672	516	13	10.8	8.1	2.1	0.00	0.00	0.00	0.00						96.358	94.384	7.05	4.5	10.2	9.6	6.76	6.4	16.0	16.2					
12/31/2018	6.58	<0.10	51.4	41.8	34.2	4,282	2,849	14	11.1	8.0	2.5	0.00	0.00	0.00	0.00						87.045	79.274	8.10	17.9	58.8	41.2	8.10	5.0	19.2	16.6					
MMAVG														MMAVG		0.48																			
Min.	6.5	0.00	2	-2	5	225	406	0	10.3	5.8	1			0.00	0.00	0.15	13	0.13	11	0.02	22.22	52.29	6.8	2.0	-0.8	2.4	6.7	3.4	8.0	9.2	37.0	130	0.57	19.0	<0.20
Max.	7.0	4.00	67	42	360	9382	52062	1730	12.6	8.1	27			0.00	0.00	0.37	54	2.19	317	0.09	98.84	98.74	8.1	36.6	156.2	44.6	8.1	52.2	393.4	370.4	37.0	130	0.57	19.0	<0.20
Total																																			
Average	6.8	<0.21	14	9	22	1460	2741	10	11.6	7.1	4			0.00	0.00	0.22	24	0.81	102	0.04	91.55	93.09	7.3	9.0	18.2	11.1	7.1	12.6	52.4	41.7	37.0	130	0.57	19.0	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
12/01/2018	4,030	4,650	3,220	3,730	15,000	13,830	7.50	7.50	1,428,480	1,496,160	28,149	32,479			3,927	36,000	50	45	5,960		4,630		12,200		8.54		3,509,280		68,893						71	
12/02/2018	3,700	4,090	3,100	3,220	15,420	15,060	7.21	8.25	1,334,880	1,506,240	25,844	28,568			6,859	59,467	51	49	5,460		4,400		12,440		6.25		3,506,400		63,113						73	
12/03/2018	3,550	3,760	2,780	2,970	16,240	14,690	6.80	7.90	1,478,880	1,457,280	24,796	26,263			2,827	23,463	79	56	6,040		4,740		12,650		7.51		3,443,040		86,694		6,123	59,328			71	
12/04/2018	4,190	4,720	3,580	4,070	14,360	12,930	6.00	7.40	2,160,000	2,154,240	29,266	32,968					57	53	5,340		4,480		11,810		7.57		2,874,240		61,726		8,655	84,931			94	
12/05/2018	5,900	5,010	4,740	4,730	13,930	12,680	5.96	7.37	2,826,720	2,842,560	41,210	34,994	5,180	41,980	4,802	43,031	54	64	5,460		4,580		10,050		10.00		3,424,320		63,113		2,479	24,646			101	
12/06/2018	6,110	6,350	5,290	5,210	13,750	14,100	5.41	6.90	2,867,040	2,927,520	42,677	44,353	4,806	41,786	7,501	68,444	74	71	6,350		5,110		11,550		7.86		3,414,240		73,401						118	
12/07/2018	6,210	6,620	4,540	4,600	12,970	13,410	5.92	7.11	2,888,640	2,845,440	43,375	46,239					60	56	5,700		4,220		11,370		7.84		3,120,480		65,888		4,248	43,088			105	
12/08/2018	6,620	6,710	4,930	5,200	13,170	12,870	5.75	7.38	2,888,640	2,913,120	46,239	46,868					62	63	6,170		4,810		11,780		0.00		2,812,320		71,321						109	
12/09/2018	7,100	6,940	5,590	5,100	13,920	13,210	6.06	7.56	2,924,640	2,931,840	49,592	48,474			4,680	43,035	63	61	6,080		4,790		11,710		8.05		3,005,280		70,280						110	
12/10/2018	6,710	7,070	5,510	5,890	13,760	13,250	5.69	7.31	2,865,600	2,880,000	46,868	49,382					70	65	5,540		4,950		11,720		8.30		2,952,000		64,038		6,069	63,138			128	
12/11/2018	6,530	7,090	5,880	5,870	14,350	13,270	5.92	6.60	2,880,000	2,880,000	45,610	49,522	4,870	42,346	4,731	42,210	69	64	5,600		4,740		11,820		8.30		2,880,000		64,732		2,213	23,400			116	
12/12/2018	7,290	7,550	5,870	6,170	15,870	14,110	5.54	7.24	2,858,400	2,880,000	50,919	52,735					74	72	6,350		5,140		12,250		6.48		2,880,000		73,401		4,979	50,938			117	
12/13/2018	6,980	7,300	5,910	5,920	14,270	13,100	5.76	7.55	2,705,760	2,881,440	48,754	50,989	3,361	28,545	3,261	30,108	65	58	5,730		4,960		11,090		6.51		2,759,040		66,234		3,299	35,509			96	
12/14/2018	7,560	7,740	6,030	6,160	14,630	13,310	5.67	7.48	2,880,000	2,880,000	52,805	54,062	4,882	42,295	4,646	42,508	62	63	6,650		5,190		12,110		8.07		2,880,000		76,869						101	
12/15/2018	7,720	7,880	6,120	6,190	13,660	14,090	4.94	6.80	2,851,200	2,891,520	53,922	55,040					71	72	6,960		5,340		11,450		7.54		2,901,600		80,452						102	
12/16/2018	7,620	7,600	6,100	6,070	14,540	12,590	4.99	6.75	2,900,160	2,885,760	53,224	53,084	9,611	79,260			81	86	6,970		5,330		11,580		7.78		2,890,080		80,568						111	
12/17/2018	6,850	6,870	5,550	5,520	13,440	13,530	4.72	7.06	2,779,200	2,891,520	47,846	47,985	5,053	43,310	5,649	43,531	64	64	6,170		4,950		12,250		7.04		2,881,440		71,321						104	
12/18/2018	7,340	7,170	5,720	5,700	14,390	12,730	5.22	7.32	2,767,680	2,844,000	51,268	50,081					70	71	6,970		5,350		12,110		8.05		2,856,960		80,568		5,761	62,038			102	
12/19/2018	7,960	6,680	6,440	5,720	14,280	12,550	5.34	7.37	2,888,640	2,880,000	55,599	46,658					80	102	6,960		5,510		10,230		10.00		2,880,000		80,452		2,168	24,228			109	
12/20/2018	7,530	7,710	6,110	6,270	14,100	14,310	5.04	7.07	2,967,840	2,868,480	52,595	53,852	4,980	42,911	4,918	43,093	72	71	6,570		5,160		11,380		7.67		2,833,920		75,944		8,386	86,015			108	
12/21/2018	8,050	8,020	6,430	5,850	14,880	14,300	5.62	7.29	2,761,920	2,891,520	56,227	56,018	5,068	42,717	5,036	42,690	67	69	6,780		5,780		12,480		6.62		2,776,320		78,372						100	
12/22/2018	6,530	6,900	5,290	5,520	13,480	13,970	4.10	6.93	3,551,040	3,198,240	45,610	48,195					70	70	6,200		4,850		12,330		8.56		2,882,880		71,667						102	
12/23/2018	6,420	6,500	5,220	5,160	13,100	13,160	4.87	8.97	3,255,840	3,235,680	44,842	45,401					65	74	5,880		4,570		11,920		8.97		2,882,880	0	67,968		6,108	59,400			112	
12/24/2018	6,360	6,800	5,170	5,480	14,190	15,140	3.26	5.56	2,181,600	2,162,880	44,423	47,496	4,984	42,795	4,824	42,719	80	79	5,840		4,630		12,120				2,815,200		67,506		2,759	26,830			111	
12/25/2018	6,110	5,820	4,080	4,060	15,030	14,420	7.03	8.58	2,047,680	2,075,040	42,677	40,651					66	70	6,060		4,730		12,010		8.60		2,908,800		70,049						106	
12/26/2018	7,020	6,790	5,730	5,660	15,640	13,760	7.20	8.70	2,037,600	2,184,480	49,033	47,426	5,205	42,238	5,006	42,719	64	68	5,490		5,130		11,700		8.84		2,805,120		63,460						104	
12/27/2018	5,980	6,430	5,280	5,350	14,560	13,930	6.53	8.10	2,203,200	2,178,720	41,769	44,912					64	62	6,020		5,060		10,880		8.28		2,861,280		69,587		5,833	62,928			91	
12/28/2018	6,540	6,520	5,430	5,410	14,700	14,520	6.40	7.35	2,155,680	2,141,280	45,680	45,541	5,410	43,475	5,111	43,326	73	77	6,250		5,100		11,300		8.12		2,877,120		72,245		1,853	22,958			115	
12/29/2018	6,790	6,280	5,480	5,010	14,620	13,760			2,144,160	2,174,400	47,426	43,864					66	73	6,140		4,840		12,150		8.00		2,871,360		70,974						114	
12/30/2018	5,470	5,220	4,890	5,040	14,120	13,450	7.32	8.38	2,198,880	2,124,000	38,207	36,460					70	81	3,830		3,050		10,530		10.00		2,868,480		44,272		3,821	43,513			146	
12/31/2018	6,330	6,730	5,130	5,480	13,850	13,900	7.06	7.94	2,170,080	2,151,360	44,213	47,007	5,215	43,989	4,975	43,730	66	67	6,290		4,980		11,780		8.57		2,838,240		72,708						107	
MMAVG																																				
Min.	3,550	3,760	2,780	2,970	12,970	12,550	3	6	1,334,880	1,457,280	24,796	26,263	3,361	28,545	2,827	23,463	50	45	3,830		3,050		10,050		0		2,759,040	0	44,272		1,853	22,958			71	
Max.	8,050	8,020	6,440	6,270	16,240	15,140	8	9	3,551,040	3,235,680	56,227	56,018	9,611	79,260	7,501	68,444	81	102	6,970		5,780		12,650		10		3,509,280	0	80,568		8,655	86,015			146	
Total									78,850,080	79,254,720	1,390,665	1,407,567	68,625	577,647	78,753	690,074											92,092,320	0	2,170,940		74,754	772,888				
Average	6,423	6,501	5,198	5,236	14,330	13,675	6	7	2,543,551	2,556,604	44,860	45,405	5,279	44,434	4,922	43,130	67	68	6,058		4,874		11,702		8		2,970,720	0	70,030		4,672	48,306			105	

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
01/01/2019	13.77	15.37	0.00	0.21	0.282	0.000			47.0	8.9	7.33	104	134	11,944	15,389		7.50	0.3	70	60	87	8,039	9,991		
01/02/2019	11.22	15.59	8.30	0.00	0.266	0.000	43,665		29.0	10.6	7.47	222	264	20,774	24,704		7.60	0.3	100	94	179	9,357	16,750		
01/03/2019	10.99	14.85	7.68	0.00	0.279	0.000	27,869		31.0	10.7	7.64	194	206	17,781	18,881		7.73	0.5	90	73	126	8,249	11,549		
01/04/2019	10.53	14.58	7.49	0.00	0.266	0.000	42,550		30.0	10.4	6.77	96	198	8,431	17,388		7.70		95	81	93	8,343	8,167		
01/05/2019	10.22	15.62	7.06	0.08	0.281	0.000	3,565		35.0	10.8	6.74	115	192	9,802	16,365		7.61	3.1	71	59	78	6,052	6,648		
01/06/2019	10.10	13.83	9.87	0.02	0.278	0.000			34.0	10.6	7.34	131	180	11,035	15,162		7.44	0.3	91	75	123	7,665	10,361		
01/07/2019	9.15	13.02	8.52	0.01	0.274	0.000	31,896		17.0	10.4	7.58	216	314	16,483	23,962		7.64	0.5	104	92	138	7,936	10,531		
01/08/2019	9.33	16.46	6.92	0.27	0.274	0.000	62,817		29.0	10.7	7.47	288	372	22,410	28,946		7.59	0.4	112	101	213	8,715	16,574		
01/09/2019	10.42	14.79	7.01	0.00	0.288	0.000	82,179		32.0	9.2	7.60	258	420	22,421	36,499		7.61	1.0	141	118	234	12,253	20,335		
01/10/2019	9.36	14.79	7.27	0.00	0.239	0.000	52,771		27.0	10.2	7.63	192	304	14,988	23,731		7.64	1.1	173	155	189	13,505	14,754		
01/11/2019	8.76	12.65	6.06	0.00	0.294	0.000	43,526		19.0	10.2	6.89	183	252	13,370	18,411		7.51	12.0	606	524	228	44,273	16,657		
01/12/2019	8.47	12.12	5.96	0.00	0.273	0.000	4,708		30.0	9.8	7.49	54	189	3,815	13,351		7.47	15.0	250	202	117	17,660	8,265		
01/13/2019	8.15	12.34	5.73	0.00	0.271	0.000			15.0	9.5	7.60	186	204	12,643	13,866		7.75	0.5	120	101	143	8,157	9,720		
01/14/2019	8.16	11.34	5.96	0.00	0.269	0.000	25,921		20.0	8.9							7.75	1.3	120	108	176	8,167	11,978		
01/15/2019	8.11	12.64	5.39	0.00	0.278	0.000	38,716		19.0	8.5	7.61	282	346	19,074	23,403		7.82	1.0	129	101	171	8,725	11,566		
01/16/2019	7.98	12.06	5.18	0.00	0.271	0.000	57,919		20.0	8.5	7.63	270	378	17,969	25,157		7.75	1.5	128	107	206	8,519	13,710		
01/17/2019	7.46	10.71	5.23	0.00	0.283	0.000	57,820		12.0	8.9	7.59	264	344	16,425	21,402		7.69	1.2	130	101	186	8,088	11,572		
01/18/2019	7.31	11.35	5.02	0.00	0.273	0.000	30,969		20.0	8.4	7.47	252	320	15,363	19,509		7.53	2.0	134		201	8,169	12,254		
01/19/2019	7.02	11.06	4.87	0.00	0.270	0.000	3,078		24.0	9.2	7.55	243	228	14,227	13,349		7.49	2.0	122		146	7,143	8,548		
01/20/2019	7.05	11.38	4.48	0.00	0.272	0.000			15.0	8.8	7.52	182	230	10,701	13,523		7.48	2.0	121	102	130	7,114	7,644		
01/21/2019	6.80	11.80	4.43	0.00	0.286	0.000	13,930		-3.0	10.1	7.54	270	308	15,312	17,467		7.61	7.5	221	186	308	12,533	17,467		
01/22/2019	6.86	11.06	4.29	0.00	0.258	0.000	32,612		2.0	9.9	7.60	339	328	19,395	18,766		7.75	0.4	107	82	306	6,122	17,507		
01/23/2019	7.02	18.57	5.38	0.25	0.271	0.376	37,926		24.0	9.8	7.56	356	422	20,843	24,707		7.33	0.5	97	86	294	5,679	17,213		
01/24/2019	32.87	36.63	14.01	1.36	0.272	14.357			40.0	6.9	7.74	83	190	22,753	52,086		7.70	0.6	103	66	60	28,236	16,448		
01/25/2019	16.25	17.47	9.27	0.00	0.076	1.679			28.0	8.9	7.71	60	304	8,132	41,200		7.68	0.5	75		78	10,164	10,571		
01/26/2019	11.96	14.71	8.08	0.00	0.076	0.000	10,499		17.0	9.0	7.56	72	128	7,182	12,768		7.64	0.5	55		90	5,486	8,977		
01/27/2019	11.36	14.40	7.54	0.00	0.077	0.000	4,938		15.0	9.1	7.60	126	142	11,938	13,453		7.70	0.1	48	42	96	4,548	9,095		
01/28/2019	10.34	13.69	6.75	0.00	0.077	0.000	27,141		20.0	9.4	7.71	262	190	22,594	16,385		7.73	0.2	80	74	147	6,899	12,677		
01/29/2019	9.76	13.56	6.50	0.22	0.078	0.000	73,424		18.0	9.5	7.72	213	338	17,338	27,513		7.80	0.2	75	69	146	6,105	11,884		
01/30/2019	6.36	12.56	6.47	0.01	0.072	0.000	19,119		20.0	9.7	7.70	168	220	8,911	11,669		7.79	0.7	85	74	131	4,509	6,949		
01/31/2019	8.97	13.00	6.04	0.00	0.060	0.000			-2.0	8.9	7.49	233	330	17,431	24,687										
MMAVG	10.06																								
Min.	6.4	10.7	0.0	0.0		0.000	3,078		-3.0	6.9	6.74	54	128	3,815	11,669		7.33	0.1	48	42	60	4509	6648		
Max.	32.9	36.6	14.0	1.4		14.357	82,179		47.0	10.8	7.74	356	422	22,753	52,086		7.82	15.0	606	524	308	44273	20335		
Total	312.1	444.0	202.8	2.4		16.412	829,558																		
Average	10.1	14.3	6.5	0.1		0.529	34,565		22.06	9.50	7.50	197	266	15049	21457		7.63	2.0	128	113	161	10214	12212		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
01/01/2019	6.64	<0.10	47.0	40.6	16.2	5,398	1,860	11	10.4	7.0	3.6	0.00	0.00	0.00	0.00	0.83	95	0.14	16	0.04	84.423	64.925	7.24	19.8	71.4	60.2	6.91	8.1	42.6	40.8					
01/02/2019	6.56	<0.10	7.0	5.8	5.0	655	468	11	10.5	7.3	2.5	0.00	0.00	0.00	0.00						97.748	97.348	7.15	3.0	7.4	6.8	6.75	11.4	39.6	36.4					
01/03/2019	6.74	<0.10	46.2	35.8	19.2	4,235	1,760	25	10.8	8.0	2.3	0.00	0.00	0.00	0.00						90.103	77.573	7.26	26.0	78.0	62.2	7.01	17.3	51.6	44.6					
01/04/2019	6.71	<0.10	39.0	32.6	11.3	3,425	992	26	11.1	7.8	2.7	0.00	0.00	0.00	0.00						88.229	80.303	7.25	18.9	63.8	50.4	7.01	9.2	26.6	24.0					
01/05/2019	6.77	0.00	40.2	31.6	10.7	3,426	912	11	11.2	7.7	2.8	0.00	0.00	0.00	0.00						90.696	79.063	7.21	17.0	63.6	51.2	7.66	6.0	19.4	17.8					
01/06/2019	6.68	0.17	6.8	5.4	9.8	573	825	7	11.1	7.8	4.6	0.00	0.00	0.00	0.00						92.519	96.222	7.25	3.5	11.4	10.0	6.87	9.0	36.4	33.8					
01/07/2019	6.61	<0.10	24.4	19.0	12.6	1,862	962	11	10.7	8.0	3.4	0.00	0.00	0.00	0.00	0.32	24	0.16	12	0.02	94.167	92.229	7.29	11.7	36.6	30.6	6.84	10.8	22.6	18.4					
01/08/2019	6.84	0.20	10.0	6.8	6.6	778	514	12	10.8	8.0	3.5	0.00	0.00	0.00	0.00						97.708	97.312	7.28	7.8	15.2	11.2	7.28	16.5	76.8	70.4					
01/09/2019	6.75	0.20	73.8	57.6	27.6	6,413	2,399	31	10.8	7.5	9.2	0.00	0.00	0.00	0.00						89.302	82.429	7.30	36.6	125.2	99.4	6.85	25.2	98.0	91.8					
01/10/2019	6.70	0.20	15.0	8.8	10.4	1,171	812	55	10.4	7.7	3.9	0.00	0.00	0.00	0.00						94.583	95.066	7.35	12.0	28.6	22.6	7.04	32.4	101.2	92.6					
01/11/2019	6.77	0.10	24.2	20.4	4.9	1,768	358	27	10.1	8.0	3.5	0.00	0.00	0.00	0.00						97.322	90.397	7.40	9.0	7.2	5.8	7.05	40.2	224.6	210.0					
01/12/2019	6.73	0.10	35.0	26.8	14.7	2,472	1,038	14	9.9	8.0	4.2	0.00	0.00	0.00	0.00						72.778	81.481	7.42	22.5	69.8	53.2	6.89	33.6	173.6	161.4					
01/13/2019	6.79	0.10	7.8	5.6	11.3	530	768	0	10.1	8.1	2.2	0.00	0.00	0.00	0.00						93.925	96.176	7.50	5.8	6.6	4.4	6.88	40.2	107.0	99.2					
01/14/2019	6.67	0.10	7.2	5.4	5.4	490	367	7	10.4	7.9	4.9	0.00	0.00	0.00	0.00	0.17	12	0.15	10	0.02			7.30	7.3	7.8	6.6	6.91	21.6	127.8	116.2					
01/15/2019	6.92	<0.10	6.2	4.6	5.7	419	386	11	10.4	7.9	8.4	0.00	0.00	0.00	0.00						97.979	98.208	7.35	6.2	6.8	5.0	7.01	39.0	105.0	96.2					
01/16/2019	6.83	<0.10	7.6	3.2	6.2	506	413	35	10.6	7.7	5.0	0.00	0.00	0.00	0.00						97.704	97.989	7.39	6.3	12.4	8.8	7.16	31.2	63.2	55.8					
01/17/2019	6.95	<0.10	8.4	4.2	9.2	523	572	28	10.4	7.8	3.9	0.00	0.00	0.00	0.00						96.515	97.558	7.33	7.1	10.0	8.8	7.18	19.4	55.8	48.0	62.00	56.00	0.55	16.00	<0.20
01/18/2019	6.70	<0.10	33.4		12.0	2,036	732	35	10.6	7.7	2.9	0.00	0.00	0.00	0.00						95.238	89.563	7.33	22.5	70.2		7.06	20.7	42.2						
01/19/2019	6.83	0.20	52.6		19.1	3,080	1,118	50	10.5	7.6	3.9	0.00	0.00	0.00	0.00						92.140	76.930	7.21	40.8	145.0		6.97	39.0	104.2						
01/20/2019	6.88	0.10	12.8	7.6	4.1	753	241	3	9.6	7.7	3.6	0.00	0.00	0.00	0.00						97.747	94.435	7.27	6.1	10.6	9.8	6.96	32.4	133.6	121.8					
01/21/2019	6.74	0.10	7.4	3.2	5.9	420	335	4	9.1	7.7	1.8	0.00	0.00	0.00	0.00	0.14	8	0.20	11	0.03	97.815	97.597	7.52	6.9	9.8	6.2	7.03	24.6	173.8	161.4					
01/22/2019	6.76	<0.10	6.4	3.8	4.9	366	280	37	10.0	8.0	7.4	0.00	0.00	0.00	0.00						98.555	98.049	7.26	4.7	17.0	15.6	6.99	15.0	110.0	102.8					
01/23/2019	6.86	<0.10	49.4	39.6	22.2	2,892	1,300	17	9.9	7.9	2.8	0.00	0.00	0.00	0.00						93.764	88.294	7.29	206.0	65.8	54.0	6.98	12.0	65.4	60.4					
01/24/2019	6.84	12.00	157.6	103.0	75.6	43,204	20,725	2700	8.9	7.1	76.3	0.00	0.00	0.00	0.00						8.916	17.053	7.56	46.2	155.4	124.6	7.21	23.4	204.6	184.2					
01/25/2019	7.13	0.20	36.0		37.8	4,879	5,123	1190	7.4	9.9	20.6	0.00	0.00	0.00	0.00						37.000	88.158	7.31	3.7	8.4		7.01	13.8	105.0						
01/26/2019	6.58	0.00	37.6		12.0	3,750	1,197	4	8.2	8.2	2.9	0.00	0.00	0.00	0.00						83.333	70.625	7.05	16.4	58.8		6.73	19.2	119.2						
01/27/2019	6.54	0.00	23.0	17.0	9.9	2,179	938	1	9.0	8.2	2.0	0.00	0.00	0.00	0.00						92.143	83.803	7.19	13.2	43.0	34.2	6.84	15.6	53.0	47.6					
01/28/2019	6.56	<0.10	7.0	4.8	4.7	604	405	14	9.4	7.9	3.4	0.00	0.00	0.00	0.00	0.13	11	0.42	36	0.02	98.206	96.316	7.22	3.3	7.0	4.8	7.27	15.3	52.8	51.2					
01/29/2019	6.80	<0.10	22.2	17.2	9.8	1,807	798	31	9.4	8.6	2.9	0.00	0.00	0.00	0.00						95.399	93.432	7.42	3.9	6.6	5.4	7.06	17.9	63.2	57.6					
01/30/2019	6.78	0.10	5.4	2.4	6.3	286	334	27	9.5	8.5	4.6	0.00	0.00	0.00	0.00						96.250	97.545	7.53	3.3	4743.0	4741.0	7.18	20.0	48.2	43.2					
01/31/2019	6.99	0.10	7.4	4.8	6.3	554	471	18	9.0	8.8	3.9	0.00	0.00	0.00	0.00						97.296	97.758	7.26	5.6	6.6	2.4	6.87	37.2	118.2	77.6					
MMAVG															MMAVG	0.48																			
Min.	6.5	0.00	5	2	4	286	241	0	7.4	7.0	2			0.00	0.00	0.13	8	0.14	10	0.02	8.92	17.05	7.1	3.0	6.6	2.4	6.7	6.0	19.4	17.8	62.0	56	0.55	16.0	<0.20
Max.	7.1	12.00	158	103	76	43204	20725	2700	11.2	9.9	76			0.00	0.00	0.83	95	0.42	36	0.04	98.55	98.21	7.6	206.0	4743.0	4741.0	7.7	40.2	224.6	210.0	62.0	56	0.55	16.0	<0.20
Total																																			
Average	6.8	<0.49	28	19	13	3273	1594	18	10.0	7.9	7			0.00	0.00	0.32	30	0.21	17	0.03	88.65	87.13	7.3	19.5	192.5	203.5	7.0	21.8	89.2	80.2	62.0	56	0.55	16.0	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
01/01/2019	6,470	6,510	5,260	5,280	13,010	13,460	6.75	8.23	2,952,000	2,916,000	45,191	45,471					63	68	4,490		3,340		11,530		8.99		2,862,720		51,901						134	
01/02/2019	6,650	6,440	5,550	5,220	12,940	12,610	7.36	8.52	2,898,720	2,842,560	46,449	44,982					75	79	5,290		4,170		11,360		7.80		2,923,200		61,148		4,264	42,931			108	
01/03/2019	6,720	6,710	5,470	5,430	13,390	13,590	6.94	7.85	2,805,120	2,851,200	46,938	46,868			4,518	43,394	83	86	5,460		4,360		12,080		7.10		2,894,400		86,694						115	
01/04/2019	7,040	6,950	5,420	5,570	13,660	12,840	7.21	7.95	2,891,520	2,895,840	49,173	48,544	4,762	43,062	4,718	43,073	78	86	6,120		4,870		12,070		8.10		2,894,400		70,743						114	
01/05/2019	7,470	7,540	5,880	5,880	12,970	13,830	7.42	6.97	3,450,240	2,923,200	52,176	52,665					66	65	6,370		4,880		12,240		8.00		2,937,600		73,632						102	
01/06/2019	7,560	7,430	5,920	5,860	13,840	13,610	6.10	7.34	2,823,840	2,897,280	52,805	51,897	4,793	42,876	5,029	43,857	53	55	6,610		5,160		12,330		8.31		2,914,560		76,407						79	
01/07/2019	6,590	5,900	5,460	5,590	13,010	13,320	7.20	7.90	2,839,680	2,916,000	46,030	41,210					65	68	6,300		4,950		11,320		7.80		2,880,000		72,823		4,446	47,094			79	
01/08/2019	7,030	6,800	5,520	5,420	12,560	12,300	6.70	6.80	2,904,480	2,874,240	49,103	47,496	4,767	43,139	4,408	43,249	63	63	6,350		4,980		11,590		7.80		2,903,040		73,401						79	
01/09/2019	8,340	6,350	6,700	5,140	12,550	12,040	6.70	7.20	2,858,400	2,894,400	58,253	44,353					48	63	6,030		4,690		12,140		10.00		2,871,360		69,702		5,268	51,735			83	
01/10/2019	6,560	6,890	5,230	5,450	12,780	12,240	5.80	6.10	2,795,040	2,907,360	45,820	48,125	6,421	61,128	6,447	61,128	66	61	6,310		4,950		11,900		6.70		2,822,400		72,939		2,225	21,677			71	
01/11/2019	6,620	6,670	5,140	5,540	11,530	12,480	7.00	6.92	2,880,000	2,793,600	46,239	46,588	2,484	23,755	2,748	26,107	94	103	6,880		5,480		12,020		7.25		2,959,200		79,528		5,213	50,940			116	
01/12/2019	7,050	6,750	5,870	6,230	10,620	12,410	7.14	7.86	2,728,800	2,908,800	49,242	47,147					99	104	6,450		5,460		11,830		7.90		2,852,640		74,557		2,172	21,364			121	
01/13/2019	8,350	6,850	6,730	6,430	12,870	11,970	7.32	8.00	2,854,080	2,823,840	58,323	47,846	4,202	42,898	4,373	43,010	91	111	5,580		4,590		12,570		6.50		2,832,480		64,501						108	
01/14/2019	8,200	8,830	6,420	7,330	13,450	12,900	7.29	7.66	2,894,400	2,908,800	57,275	61,675					85	80	6,380		5,110		12,910		10.00		2,880,000		73,748		5,086	49,839			97	
01/15/2019	7,670	7,850	6,290	6,420	12,800	12,900	6.42	6.94	2,880,000	2,880,000	53,573	54,830	4,586	43,379	4,555	43,088	87	90	7,120		5,710		12,710		10.00		2,880,000		82,302		2,178	21,948			111	
01/16/2019	7,720	8,200	6,290	6,700	13,140	12,850	5.87	7.32	2,880,000	2,880,000	53,922	57,275					91	88	7,130		5,640		12,840		6.84		2,880,000		82,417		4,364	43,101			111	
01/17/2019	7,530	8,200	6,050	6,510	12,950	12,920	6.48	6.62	2,880,000	2,880,000	52,595	57,275	4,547	41,476	4,759	43,101	76	63	6,910		5,550		12,000		10.00		2,880,000		79,874						94	
01/18/2019	7,530	7,660	6,180	6,360	13,070	12,690	6.37	6.83	2,855,520	2,864,160	52,595	53,503					92	88	7,030		5,740		12,180		6.02		2,868,480		81,261		4,361	43,394			105	
01/19/2019	7,850	7,850	6,450	6,380	11,900	11,650	6.19	6.97	2,855,520	2,894,400	54,830	54,830					97	98	7,060		5,840		11,310		6.04		2,871,360		81,608						113	
01/20/2019	7,710	7,740	6,190	6,330	12,460	11,940	6.00	6.95	2,753,280	2,750,400	53,852	54,062	6,087	59,921	5,846	59,426	91	90	6,980		5,540		11,940		7.55		2,819,520		80,683						112	
01/21/2019	7,660	7,200	6,580	4,580	10,710	11,760	6.45	7.08	3,507,840	2,786,400	53,503	50,290	2,099	20,195	2,000	20,089	91	101	6,540		5,540		11,190		6.49		2,805,120		75,597		3,329	43,195			121	
01/22/2019	7,650	5,960	6,530	5,620	8,750	10,600	6.86	7.13	3,513,600	2,808,000	53,433	41,629	6,978	71,211	8,303	72,772	97	128	6,560		5,260		11,080		7.91		2,888,640		75,829						125	
01/23/2019	7,780	8,190	6,130	6,520	11,120	11,510	6.28	6.60	3,402,720	3,477,600	54,341	57,205					95	90	6,890		5,580		11,610		7.03		2,803,680		79,643		4,056	43,674			122	
01/24/2019	6,400	6,510	5,270	5,320	10,870	11,710	5.77	5.76	3,173,760	3,195,360	44,702	45,471	8,677	87,708	8,796	89,193	94	105	5,190		4,190		12,340		7.75		2,901,600		59,992						112	
01/25/2019	8,130	8,000	6,410	6,340	10,860	10,030	9.25	8.31	3,235,680	3,195,360	56,786	55,878					98	100	7,460		5,840		11,710		10.37		2,869,920		86,232		3,974	42,468			113	
01/26/2019	5,630	5,390	4,840	4,720	10,160	10,930	8.59	9.52	3,160,800	3,120,480	39,324	37,648	5,381	57,890	5,745	59,900	110	117	4,640		3,910		11,770		10.05		2,738,880		53,635						129	
01/27/2019	5,870	5,720	4,760	4,540	11,330	11,000	8.67	8.10	3,035,520	3,045,600	41,000	39,953	1,858	21,927	2,156	23,653	94	98	5,270		4,260		11,790		10.00		2,808,000		60,917		4,322	43,997			133	
01/28/2019	5,990	5,990	4,940	4,820	11,350	10,990	7.83	7.32	2,916,000	2,924,640	41,839	41,839	5,804	62,028	5,450	62,028	110	110	5,570		4,460		12,850		6.80		2,931,840		64,385						135	
01/29/2019	5,810	5,800	4,640	4,620	12,090	10,830	7.72	7.15	2,913,120	2,904,480	40,581	40,512	2,256	24,343	2,064	24,578	103	95	5,130		4,040		12,340		7.74		2,927,520		59,299		4,471	43,200			146	
01/30/2019	6,180	6,290	5,240	5,010	11,930	11,250	7.45	6.95	2,898,720	2,864,160	43,166	43,934	5,864	62,028	5,579	62,028	108	103	6,080		4,450		12,020		6.83		2,907,360		70,280						120	
01/31/2019	6,080	6,300	5,080	5,080	11,750	11,860	7.81	7.00	2,898,720	2,878,560	42,467	44,004	2,324	24,257	2,125	23,057	105	102	7,000		5,370		12,960		6.88		2,864,160		80,915		4,410	41,026			117	
MMAVG																																				
Min.	5,630	5,390	4,640	4,540	8,750	10,030	6	6	2,728,800	2,750,400	39,324	37,648	1,858	20,195	2,000	20,089	48	55	4,490		3,340		11,080		6		2,738,880		51,901		2,172	21,364			71	
Max.	8,350	8,830	6,730	7,330	13,840	13,830	9	10	3,513,600	3,477,600	58,323	61,675	8,677	87,708	8,796	89,193	110	128	7,460		5,840		12,960		10		2,959,200		86,232		5,268	51,735			146	
Total									92,337,120	90,702,720	1,535,526	1,505,005	83,890	833,221	89,619	886,731											89,074,080		2,233,012		64,139	651,583				
Average	7,092	6,951	5,756	5,685	12,143	12,162	7	7	2,978,617	2,925,894	49,533	48,549	4,661	46,290	4,717	46,670	86	89	6,232		4,965		12,017		8		2,873,357		72,033		4,009	40,724			110	

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
02/01/2019	8.31	12.32	5.64	0.00	0.070	0.000	18,337		2.0	9.5	7.61	128	188	8,871	13,029		7.57	1.3	123	103	129	8,525	8,940		
02/02/2019	8.11	12.18	5.08	0.00	0.069	0.000	10,453		1.0	9.3	7.57	167	160	11,295	10,822		7.60	0.4	96	80	123	6,493	8,319		
02/03/2019	8.33	12.45	5.19	0.00	0.064	0.000			27.0	9.4	7.53	168	222	11,671	15,423		7.62	1.5	100	78	140	6,947	9,726		
02/04/2019	9.07	12.49	5.43	0.00	0.068	0.000	19,652		25.0	9.3	7.62	203	318	15,356	24,055		7.64	0.2	126	85	189	9,531	14,297		
02/05/2019	9.21	12.22	5.72	0.00	0.068	0.000	36,020		42.0	10.2	7.68	200	338	15,362	25,962		7.65	0.1	115	98	158	8,833	12,136		
02/06/2019	9.36	19.83	6.56	0.54	0.073	0.367	31,122		27.0	10.2	7.70	263	314	20,530	24,512		7.81	0.3	119	92	233	9,289	18,189		
02/07/2019	11.01	14.12	7.39	0.05	0.006	0.000	3,793		32.0	9.0	7.68	140	214	12,855	19,650		7.70	0.3	99	70	126	9,091	11,570		
02/08/2019	11.29	19.05	7.38	0.00	0.000	0.296	4,762		34.0	9.0	6.84	69	136	6,497	12,806		7.30	2.5	119	85	96	11,205	9,039		
02/09/2019	9.75	14.53	6.65	0.00	0.000	0.000	3,129		20.0	9.3	6.83	78	212	6,343	17,239		7.30	2.2	124	90	99	10,083	8,050		
02/10/2019	9.51	13.24	6.22	0.00	0.000	0.000			19.0	9.2	7.78	129	202	10,231	16,021		7.80	0.1	79	69	156	6,266	12,373		
02/11/2019	9.01	13.49	6.11	0.00	0.000	0.000	26,354		22.0	9.3	7.67	215	266	16,156	19,988		7.81	0.2	103	87	167	7,740	12,549		
02/12/2019	8.80	14.11	5.75	1.06	0.000	0.000	24,385		16.0	9.3	7.66	185	252	13,578	18,495		7.78	0.2	48	35	146	3,523	10,715		
02/13/2019	9.86	15.55	5.55	0.01	0.000	0.000			28.0	9.3	7.59	191	684	15,706	56,247		7.67	0.4	127	95	156	10,444	12,828		
02/14/2019	8.89	13.63	5.53	0.00	0.000	0.000	22,344		25.0	9.1	7.63	216	310	16,015	22,984		7.64	0.5	100	91	185	7,414	13,716		
02/15/2019	8.60	12.74	5.43	0.00	0.000	0.000	3,897		29.0	9.7	7.50	241	281	17,285	20,154		7.41	1.0	143	121	132	10,257	9,468		
02/16/2019	8.97	14.51	5.65	0.00	0.000	0.000	5,823		36.0	9.7	7.44	60	247	4,489	18,478		7.53	2.5	150	121	102	11,221	7,631		
02/17/2019	8.55	12.51	5.26	0.25	0.000	0.000	1,886		23.0	9.6	7.46	203	244	14,475	17,399		7.30	30.0	440	395	371	31,375	26,455		
02/18/2019	8.29	14.85	5.07	0.04	0.000	0.000	9,515		29.0	9.3	7.58	207	350	14,312	24,199		7.66	1.5	117	103	155	8,089	10,716		
02/19/2019	7.95	12.35	5.18	0.00	0.000	0.000	26,618		16.0	9.7	7.63	246	362	16,311	24,002		7.69	1.0	139	116	186	9,216	12,332		
02/20/2019	7.73	12.28	5.24	0.42	0.000	0.000	24,193		12.0	9.2	7.58	224	360	14,441	23,209		7.59	6.5	282	245	273	18,180	17,600		
02/21/2019	8.65	13.34	5.22	0.00	0.000	0.582	4,728		30.0	9.5	7.64	204	324	14,717	23,374		7.65	24.0	355	313	276	25,610	19,911		
02/22/2019	8.64	12.49	5.08	0.00	0.000	0.000	12,214		31.0	9.4	7.44	222	346	15,997	24,932		7.40	2.5	138		147	9,944	10,592		
02/23/2019	7.92	11.45	4.88	0.80	0.000	0.000	3,915		21.0	9.6	7.55	72	224	4,756	14,796		7.58	1.5	132		123	8,719	8,124		
02/24/2019	11.84	21.96	5.82	0.49	0.000	1.971			27.0	9.8	7.63	180	234	17,774	23,106		7.72	1.7	137	97	146	13,528	14,417		
02/25/2019	9.74	13.70	6.06	0.00	0.000	0.798	7,371		26.0	9.2	7.66	210	254	17,059	20,633		7.82	0.6	88	78	201	7,148	16,328		
02/26/2019	8.92	13.34	5.84	0.00	0.000	0.028	41,238		19.0	8.9	7.63	288	386	21,425	28,716		7.81	1.4	119	100	213	8,853	15,846		
02/27/2019	8.47	12.71	5.72	0.07	0.000	0.000	4,225		10.0	9.0	7.62	510	274	36,026	19,355		7.73	0.5	100	81	288	7,064	20,344		
02/28/2019	8.29	12.86	5.24	0.00	0.000	0.000	823		18.0	9.1	7.60	212	254	14,657	17,561		7.69	0.5	113	94	170	7,813	11,754		
MMAVG	9.95																								
Min.	7.7	11.5	4.9	0.0		0.000	823		1.0	8.9	6.83	60	136	4,489	10,822		7.30	0.1	48	35	96	3523	7631		
Max.	11.8	22.0	7.4	1.1		1.971	41,238		42.0	10.2	7.78	510	684	36,026	56,247		7.82	30.0	440	395	371	31375	26455		
Total	253.1	390.3	159.9	3.7		4.042	346,797																		
Average	9.0	13.9	5.7	0.1		0.144	14,450		23.11	9.40	7.55	194	284	14435	21327		7.62	3.1	140	116	175	10443	12999		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
02/01/2019	6.80	<0.10	5.4	2.8	4.5	374	312	64	9.0	8.8	2.9	0.00	0.00	0.00	0.00						96.484	97.128	8.20	2.0	6.0	7.0	8.16	18.5	25.8	30.2					
02/02/2019	6.75	<0.10	6.2	5.2	3.9	419	264	24	9.1	8.6	2.0	0.00	0.00	0.00	0.00						97.665	96.125	8.27	2.4	7.0	5.4	8.00	13.7	23.8	22.4					
02/03/2019	6.71	<0.10	10.0	8.2	6.2	695	431	7	9.7	7.9	2.2	0.00	0.00	0.00	0.00						96.310	95.495	7.17	2.6	8.6	6.2	6.95	7.3	13.0	9.8					
02/04/2019	6.93	0.20	11.6	6.4	3.9	877	295	6	10.0	7.9	6.8	0.00	0.00	0.00	0.00	0.14	11	0.13	10	0.02	98.079	96.352	7.53	2.6	12.2	7.2	7.16	14.4	35.2	29.6					
02/05/2019	6.90	<0.10	23.8	18.4	9.3	1,828	714	45	10.2	7.8	2.6	0.00	0.00	0.00	0.00						95.350	92.959	7.30	2.0	6.2	4.2	7.06	12.6	33.6	28.6					
02/06/2019	6.75	0.20	92.0	67.0	43.2	7,182	3,372	200	10.1	7.7	16.0	0.00	0.00	0.00	0.00						83.574	70.701	7.30	2.7	7.4	4.6	6.98	75.6	53.2	43.0					
02/07/2019	6.84	<0.10	10.8	6.2	5.1	992	468	4	9.2	7.7	3.2	0.00	0.00	0.00	0.00						96.357	94.953	7.20	3.0	6.0	5.0	7.04	14.3	53.2	46.6					
02/08/2019	6.75	<0.10	47.6	36.4	14.3	4,482	1,346	28	9.8	7.4	3.9	0.00	0.00	0.00	0.00						79.275	65.000	7.36	2.6	5.6	3.4	7.05	44.4	249.0	207.0					
02/09/2019	6.78	0.10	9.2	6.4	4.4	748	358	85	9.0	7.7	8.7	0.00	0.00	0.00	0.00						94.359	95.660	7.20	2.4	10.2	5.0	7.11	12.0	19.8	15.4					
02/10/2019	6.72	<0.10	9.0	5.0	5.1	714	404	29	9.3	7.8	2.9	0.00	0.00	0.00	0.00						96.047	95.545	7.36	3.1	8.0	5.2	7.16	9.9	21.2	17.8					
02/11/2019	6.88	<0.10	4.6	3.2	6.3	346	473	0	9.7	7.7	2.0	0.00	0.00	0.00	0.00	0.16	12	1.08	81	0.03	97.070	98.271	7.32	6.3	4.2	3.2	6.97	7.5	12.4	11.6					
02/12/2019	6.85	<0.10	9.2	6.0	7.8	675	572	9	9.7	7.6	4.0	0.00	0.00	0.00	0.00						95.784	96.349	7.37	6.3	8.4	5.2	7.01	11.4	25.4	20.4	54.00	50.00	<0.50	19.00	<0.20
02/13/2019	6.69	<0.10	10.6	5.2	6.0	872	493	2	9.7	7.3	3.1	0.00	0.00	0.00	0.00						96.859	98.450	7.45	2.9	10.6	5.6	7.20	10.2	34.4	27.4					
02/14/2019	6.87	<0.10	7.2	5.6	12.3	534	912	10	9.7	7.4	3.6	0.00	0.00	0.00	0.00						94.306	97.677	7.33	2.9	4.0	2.2	7.12	12.5	12.6	9.2					
02/15/2019	6.78	<0.10	11.2	7.0	8.3	803	595		9.7	7.5	4.5	0.00	0.00	0.00	0.00						96.556	96.014	7.23	2.7	3.2	2.2	6.89	5.2	7.9	6.6					
02/16/2019	6.64	0.10	10.0	9.8	18.5	748	1,384	0	9.7	7.3	1.4	0.00	0.00	0.00	0.00						69.167	95.951	7.25	23.7	16.8	11.6	6.85	12.5	12.0	8.2					
02/17/2019	6.73	0.10	15.0	12.6	11.9	1,070	849	1	9.5	7.1	1.5	0.00	0.00	0.00	0.00						94.138	93.852	7.26	15.0	11.8	10.4	6.86	10.7	18.0	16.0					
02/18/2019	6.80	0.10	8.6	3.8	8.9	595	615	0	9.8	7.3	1.4	0.00	0.00	0.00	0.00	0.17	12	0.21	15	0.03	95.700	97.543	7.46	2.0	5.6	4.0	7.02	10.2	26.6	23.0					
02/19/2019	6.87	<0.10	8.6	4.0	6.4	570	424	6	9.4	7.5	5.2	0.00	0.00	0.00	0.00						97.398	97.624	7.48	2.8	9.2	5.0	7.08	14.0	18.0	14.0					
02/20/2019	6.97	<0.10	9.8	5.6	5.7	632	367	0	9.4	7.5	5.2	0.00	0.00	0.00	0.00						97.455	97.278	7.32	2.0	4.8	2.6	6.99	7.5	17.6	12.6					
02/21/2019	6.87	0.50	103.4	67.2	76.8	7,459	5,540	4	9.4	6.8	11.0	0.00	0.00	0.00	0.00						62.353	68.086	7.46	7.0	7.0	4.0	7.09	85.2	206.6	171.4					
02/22/2019	6.89	<0.10	8.6		5.2	620	375	3	9.6	6.4	2.6	0.00	0.00	0.00	0.00						97.658	97.514	7.42	2.3	8.4		6.96	10.8	29.6						
02/23/2019	6.89	<0.10	4.2		5.1	277	337	2	9.6	7.0	1.7	0.00	0.00	0.00	0.00						92.917	98.125	7.33	2.4	4.6		6.91	9.0	11.0						
02/24/2019	6.75	0.00	57.2	38.6	46.8	5,648	4,621	10	10.2	9.2	1.5	0.00	0.00	0.00	0.00						74.000	75.556	7.58	2.1	4.8	3.6	7.13	17.9	55.8	44.6					
02/25/2019	6.87	<0.10	49.8	38.4	42.0	4,045	3,412	6	8.8	6.6	2.2	0.00	0.00	0.00	0.00	1.14	93	1.99	162	0.18	80.000	80.394	7.62	3.2	4.0	3.2	7.16	12.8	30.0	27.8					
02/26/2019	6.94	<0.10	14.4	9.0	18.0	1,071	1,339	3	8.6	6.9	2.1	0.00	0.00	0.00	0.00						93.750	96.269	7.48	3.2	11.8	8.4	7.13	18.3	43.4	36.6					
02/27/2019	6.99	<0.10	15.4	9.6	10.5	1,088	742	3	8.6	6.8	5.5	0.00	0.00	0.00	0.00						97.941	94.380	7.44	9.0	19.2	14.2	7.06	14.4	23.0	20.2					
02/28/2019	6.91	0.10	9.8	6.0	9.2	678	636	0	9.0	6.8	17.1	0.00	0.00	0.00	0.00						95.660	96.142	7.43	4.6	5.0	2.4	7.08	17.9	22.6	18.2					
MMAVG													MMAVG		0.48																				
Min.	6.6	0.00	4	3	4	277	264	0	8.6	6.4	1			0.00	0.00	0.14	11	0.13	10	0.02	62.35	65.00	7.2	2.0	3.2	2.2	6.9	5.2	7.9	6.6	54.0	50	<0.50	19.0	<0.20
Max.	7.0	0.50	103	67	77	7459	5540	200	10.2	9.2	17			0.00	0.00	1.14	93	1.99	162	0.18	98.08	98.45	8.3	23.7	19.2	14.2	8.2	85.2	249.0	207.0	54.0	50	<0.50	19.0	<0.20
Total																																			
Average	6.8	<0.12	21	15	14	1644	1130	6	9.5	7.5	5			0.00	0.00	0.40	32	0.85	67	0.07	91.51	91.98	7.4	4.5	7.9	5.4	7.1	18.2	40.5	35.3	54.0	50	<0.50	19.0	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
02/01/2019	6,340	4,980	5,270	3,910	9,060	7,780	7.61	6.84	2,877,120	2,898,720	44,283	34,784	3,791	42,029	3,760	43,002	110	135	5,120		950		11,230		7.45		2,992,320		59,183		3,445	40,181			152	
02/02/2019	5,280	5,480	5,150	5,260	11,330	8,480	7.40	6.60	2,844,000	2,957,760	36,879	38,276					91	91	6,200		5,470		9,120		10.00		2,963,520		71,667						97	
02/03/2019	6,220	6,610	5,490	5,560	11,050	10,150	7.60	6.40	2,900,160	2,939,040	43,445	46,169					101	95	7,090		5,890		11,750		7.63		2,969,280		86,694		3,736	38,129			103	
02/04/2019	6,470	6,500	5,250	5,230	11,050	10,410	6.95	6.21	2,793,600	2,858,400	45,191	45,401	3,859	43,511	3,636	43,680	104	106	6,920		5,550		11,700		7.56		2,960,640		79,990						117	
02/05/2019	6,400	6,370	5,130	5,420	10,930	10,600	6.68	5.99	3,011,040	2,937,600	44,702	44,493					106	101	6,540		5,320		12,330		7.76		3,031,200		75,597		4,455	42,940			118	
02/06/2019	6,490	6,360	5,190	5,260	10,900	10,870	6.21	5.78	2,937,600	2,960,640	45,331	44,423	3,924	42,928	3,931	43,161	100	110	6,840		5,510		12,370		6.53		2,872,800		79,065						117	
02/07/2019	6,350	6,140	5,190	4,940	11,130	10,590	7.20	6.13	2,862,720	2,815,200	44,353	42,886					96	101	5,350		4,340		12,020		5.74		3,585,600		61,842		4,374	43,490			118	
02/08/2019	6,540	6,320	5,340	5,100	11,280	11,290	6.81	6.02	2,852,640	2,838,240	45,680	44,144	4,142	44,068	3,924	42,874	99	98	5,810		4,710		11,820		6.00		3,565,440		67,159						124	
02/09/2019	6,080	6,040	5,020	5,060	11,730	11,110	4.94	6.20	2,779,200	2,888,640	42,467	42,188					66	68	6,740		5,330		11,940		5.88		3,699,360		77,909						85	
02/10/2019	6,420	6,440	4,990	5,110	13,210	11,210	6.57	6.12	2,880,000	2,822,400	44,842	44,982					78	79	7,220		5,710		12,530		7.41		3,562,560		83,458		4,272	42,898			108	
02/11/2019	4,450	5,890	3,390	5,090	11,350	5,890	5.70	5.60	2,983,680	2,977,920	31,082	41,140	4,710	42,748	4,015	42,948	128	99	6,340		5,890		11,760		5.40		3,337,920		73,286						122	
02/12/2019	5,410	6,250	5,240	5,290	11,580	11,500	5.60	5.70	2,914,560	2,767,680	37,787	43,655					133	114	6,620		5,690		12,600		5.90		2,743,200		76,522		4,575	43,799			124	
02/13/2019	6,730	6,500	5,500	5,340	11,410	11,840	6.00	6.10	2,836,800	2,720,160	47,007	45,401					89	99	7,150		5,810		13,040		7.10		2,531,520		82,649		4,623	43,824			108	
02/14/2019	6,480	6,520	5,330	5,510	12,410	11,430	6.86	6.15	2,816,640	2,813,760	45,261	45,541	4,426	42,760	4,099	42,999	83	84	7,120		5,870		13,060		7.20		2,590,560		82,302						98	
02/15/2019	6,560	6,560	5,270	5,240	11,430	11,130	6.93	6.04	2,751,840	2,831,040	45,820	45,820					102	104	7,460		5,950		12,170		7.30		3,276,000		86,232		4,492	44,198			114	
02/16/2019	6,940	6,030	5,610	4,920	11,730	10,980	4.56	4.52	2,766,240	2,836,800	48,474	42,118	4,210	42,416	4,066	43,333	101	121	7,440		6,150		11,960		7.20		3,564,000		86,001		1,713	17,928			117	
02/17/2019	6,440	6,400	5,230	5,450	10,900	11,140	5.20	4.76	2,911,680	2,818,080	44,982	44,702	4,059	43,009	3,968	43,013	113	122	7,420		6,100		11,230		7.20		3,621,600		85,770		2,434	25,470			119	
02/18/2019	7,960	7,810	6,570	6,380	11,640	11,300	5.22	5.67	3,758,400	3,716,640	55,599	54,551	4,104	43,742	4,102	43,839	83	90	7,400		5,910		11,730		7.00		4,004,640		85,538		1,491	15,241			104	
02/19/2019	7,630	7,840	6,320	6,800	11,520	11,340	6.88	6.38	2,880,000	2,880,000	53,294	54,760					87	100	7,140		6,070		11,840		7.48		3,600,000		82,533		4,266	43,201			111	
02/20/2019	7,180	8,070	6,270	6,660	12,430	11,430	7.02	6.30	2,880,000	2,880,000	50,151	56,367					111	108	7,320		5,980		11,970		6.74		3,600,000		84,614		4,185	42,675			112	
02/21/2019	7,780	7,910	6,480	6,550	12,650	11,980	2.14	5.28	2,880,000	2,880,000	54,341	55,249	4,270	43,906	3,677	37,960	98	100	7,240		5,920		12,100		7.06		3,600,000		83,689		2,378	24,160			117	
02/22/2019	7,530	7,710	6,140	6,190	12,310	12,180	6.24	6.25	2,832,480	2,898,720	52,595	53,852					92	96	7,400		5,910		12,050		7.31		3,600,000		85,538		4,323	43,598			111	
02/23/2019	7,270	7,360	6,140	6,220	11,170	11,610	7.08	7.33	2,898,720	2,865,600	50,779	51,408					110	114	6,860		5,690		10,810		7.15		3,628,800		79,296		4,316	43,200			131	
02/24/2019	7,630	7,670	6,340	6,400	12,280	11,590	7.02	7.10	2,844,000	2,885,760	53,294	53,573					113	110	7,390		6,090		10,880		7.33		3,657,600		85,423		3,895	43,200			129	
02/25/2019	6,930	7,270	5,420	5,790	12,020	12,230	5.66	5.24	2,819,520	2,815,200	48,404	50,779	4,311	42,455			118	113	5,560		4,400		11,570		7.35		3,699,360		64,269		3,830	42,466			142	
02/26/2019	6,630	6,330	5,840	5,940	11,100	12,290	6.43	6.41	2,890,080	2,836,800	46,309	44,213	4,194	43,202	4,424	43,551	118	130	5,440		5,040		10,480		6.34		3,600,000		62,882		3,753	42,700			149	
02/27/2019	6,980	7,590	6,010	6,550	11,060	10,950	7.26	6.91	3,617,280	3,640,320	48,754	53,014	4,164	44,540	1,524	16,685	123	113	5,950		4,680		10,190		6.84		3,672,000		68,777		3,543	41,407			148	
02/28/2019	7,190	7,500	5,400	6,380	11,100	10,580	6.09	6.49	3,528,000	3,551,040	50,220	52,386	3,565	41,318	3,313	38,801	111	112	4,030		3,700		10,440		6.49		3,700,800		46,584		3,860	44,040			206	
MMAVG																																				
Min.	4,450	4,980	3,390	3,910	9,060	5,890	2	5	2,751,840	2,720,160	31,082	34,784	3,565	41,318	1,524	16,685	66	68	4,030		950		9,120		5		2,531,520		46,584		1,491	15,241			85	
Max.	7,960	8,070	6,570	6,800	13,210	12,290	8	7	3,758,400	3,716,640	55,599	56,367	4,710	44,540	4,424	43,839	133	135	7,460		6,150		13,060		10		4,004,640		86,232		4,623	44,198			206	
Total									82,548,000	82,532,160	1,301,326	1,316,275	57,729	602,632	48,439	525,846											94,230,720		2,139,730		77,959	808,745				
Average	6,654	6,730	5,519	5,627	11,491	10,853	6	6	2,948,143	2,947,577	46,476	47,010	4,124	43,045	3,726	40,450	102	104	6,611		5,344		11,668		7		3,365,383		76,419		3,712	38,512			121	

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
03/01/2019	8.06	11.39	5.18	0.00	0.000	0.000	12,315		24.0	8.8	7.60	87	270	5,848	18,150		7.60	0.5	128		111	8,604	7,461		
03/02/2019	7.83	11.96	5.11	0.00	0.000	0.000	1,453		27.0	9.0	7.53	200	258	13,060	16,848		7.54	1.0	135		144	8,816	9,404		
03/03/2019	7.84	11.54	4.97	0.45	0.000	0.000			25.0	9.1	7.61	191	270	12,489	17,654		7.73	0.7	107	83	180	6,996	11,769		
03/04/2019	8.03	12.49	5.16	0.00	0.000	0.000	4,379		27.0	9.5	7.65	194	268	12,992	17,948		7.81	0.7	102	88	173	6,831	11,586		
03/05/2019	7.54	11.91	5.29	0.00	0.000	0.000	29,825		17.0	8.9	7.59	192	270	12,074	16,979		7.73	0.7	107	91	209	6,729	13,143		
03/06/2019	7.41	11.81	4.75	0.00	0.000	0.000	29,476		14.0	8.9	7.60	312	292	19,281	18,045		7.67	0.6	99	84	240	6,118	14,832		
03/07/2019	7.35	12.28	4.91	0.00	0.000	0.000	32,437		15.0	8.9	7.74	306	350	18,757	21,455		7.77	0.5	110	93	186	6,743	11,402		
03/08/2019	7.31	11.81	5.76	0.00	0.000	0.000	22,095		3.0	8.9	7.49	318	274	19,387	16,705		7.54	1.3	111	86	155	6,767	9,450		
03/09/2019	7.49	10.94	4.43	0.00	0.000	0.000	1,542		14.0	9.8	7.52	99	432	6,184	26,986		7.51	1.5	121		140	7,558	8,745		
03/10/2019	7.54			0.29	0.000	0.000			27.0	9.5	7.57	234	236	14,715	14,841		7.65	3.0	134	115	198	8,426	12,451		
03/11/2019	9.12	13.64	5.44	0.00	0.000	0.000	18,360		32.0	8.8	7.60	222	316	16,885	24,035		7.66	0.8	133	118	206	10,116	15,669		
03/12/2019	8.20	12.74	5.59	0.00	0.000	0.000	18,988		31.0	9.3	7.59	183	274	12,515	18,738		7.66	1.0	127	108	197	8,685	13,472		
03/13/2019	8.09	12.44	5.64	0.00	0.000	0.000	8,937		24.0	9.5	7.58	335	236	22,603	15,923		7.46	1.5	103	93	155	6,949	10,458		
03/14/2019	9.00	13.86	6.39	0.00	0.000	0.000	13,987		45.0	10.3	7.65	324	280	24,319	21,017		7.53	1.5	98	89	161	7,356	12,085		
03/15/2019	14.54	29.75	7.81	1.28	0.000	6.103	3,597		44.0	9.5	7.24	114	184	13,824	22,313		7.55	2.0	102	70	141	12,369	17,098		
03/16/2019	15.35	18.78	9.96	0.00	0.001	3.809			45.0	7.1	7.18	87	90	11,138	11,522		7.61	3.0	73	60	84	9,345	10,754		
03/17/2019	12.49	16.22	8.86	0.00	0.000	1.350			35.0	7.7	7.65	111	120	11,562	12,500		7.74	0.5	70	56	134	7,292	13,958		
03/18/2019	11.33	14.90	8.39	0.00	0.000	1.630	7,540		24.0	8.6	7.71	146	266	13,796	25,135		7.66	1.0	89	72	108	8,410	10,205		
03/19/2019	10.84	13.78	8.17	0.00	0.000	0.980	11,913		21.0	8.9	7.61	185	230	16,725	20,793		7.72	0.8	84	66	146	7,594	13,199		
03/20/2019	10.56	13.78	8.18	0.00	0.000	2.529			28.0	9.3	7.66	192	218	16,910	19,199		7.70	0.5	79	63	153	6,958	13,475		
03/21/2019	10.49	14.48	8.83	0.28	0.000	2.360	23,644				7.69	224	262	19,597	22,921		7.76	0.7	79	68	176	6,911	15,398		
03/22/2019	12.27	15.69	8.55	0.42	0.000	4.462			33.0	8.4	7.55	122	202	12,484	20,671		7.15	1.2	109	72	59	11,154	6,038		
03/23/2019	11.04	14.73	7.64	0.00	0.000	3.790			33.0	9.8	7.20	168	144	15,468	13,259		7.10	2.0	67	60	117	6,169	10,773		
03/24/2019	10.89	14.54	0.00	0.00	0.000	2.812			40.0	8.1	7.66	141	186	12,806	16,893		7.64	1.1	76	63	116	6,903	10,535		
03/25/2019	10.29	14.48	6.77	0.00	0.000	1.443	19,103		31.0	8.6	7.61	210	260	18,022	22,313		7.65	0.9	90	75	183	7,724	15,705		
03/26/2019	9.83	14.11	6.86	0.00	0.000	0.887	41,289		23.0	8.8	7.62	222	292	18,200	23,939		7.75	1.0	92	77	177	7,542	14,511		
03/27/2019	9.41	13.65	6.60	0.00	0.000	0.000	28,829		21.0	8.9	7.66	234	274	18,364	21,503		7.71	1.5	148	87	204	11,615	16,010		
03/28/2019	9.60	13.05	6.39	0.00	0.000	0.000	40,502		30.0	9.0	7.51	204	292	16,333	23,379		7.55	0.5	84	61	111	6,725	8,887		
03/29/2019	9.78	12.81	6.29	0.00	0.000	0.442	20,724		40.0	9.1	7.35	230	304	18,760	24,796		7.37	1.7	88		102	7,178	8,320		
03/30/2019	9.64	12.41	5.92	0.00	0.000	0.000			44.0	9.3	7.36	180	274	14,472	22,029		7.34	2.0	86		84	6,914	6,753		
03/31/2019	10.80	17.70	6.45	0.22	0.000	0.231			57.0	9.4	7.72	183	172	16,483	15,492		7.71	2.0	80	65	126	7,206	11,349		
MMAVG	9.84																								
Min.	7.3	10.9	0.0	0.0		0.000	1,453		3.0	7.1	7.18	87	90	5,848	11,522		7.10	0.5	67	56	59	6118	6038		
Max.	15.4	29.8	10.0	1.3		6.103	41,289		57.0	10.3	7.74	335	432	24,319	26,986		7.81	3.0	148	118	240	12369	17098		
Total	300.0	423.7	190.3	2.9		32.828	390,935																		
Average	9.7	14.1	6.3	0.1		1.059	18,616		29.13	8.99	7.56	198	251	15357	19483		7.60	1.2	100	79	151	7894	11771		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
03/01/2019	6.70	<0.10	10.0		5.2	672	350	2	9.2	6.8	3.3	0.00	0.00	0.00	0.00						94.023	96.296	7.32	5.0	6.8		6.95	9.9	16.8						
03/02/2019	6.83	0.00	19.0		13.2	1,241	862	2	9.5	6.7	2.3	0.00	0.00	0.00	0.00						93.400	92.636	7.28	16.2	33.2		6.95	19.8	13.2						
03/03/2019	6.77	0.00	16.2	10.8	7.5	1,059	490	0	9.4	6.3	3.5	0.00	0.00	0.00	0.00						96.073	94.000	7.49	7.7	20.8	15.4	7.09	5.1	10.4	6.6					
03/04/2019	6.87	<0.10	8.8	6.0	5.3	589	355	0	9.3	7.3	5.5	0.00	0.00	0.00	0.00	0.16	11	0.14	9	0.05	97.268	96.716	7.44	2.4	7.2	4.6	7.03	6.6	15.6	11.2					
03/05/2019	6.93	<0.10	7.6	4.2	6.1	478	384	8	9.1	6.8	7.3	0.00	0.00	0.00	0.00						96.823	97.185	7.54	3.0	6.4	4.0	7.20	10.8	18.6	14.0					
03/06/2019	6.92	<0.10	6.6	3.6	6.6	408	408	4	9.0	6.8	3.6	0.00	0.00	0.00	0.00						97.885	97.740	7.38	3.7	6.0	4.0	7.02	5.3	8.4	5.2					
03/07/2019	6.91	<0.10	11.8	8.2	17.6	723	1,079	11	8.8	6.9	2.3	0.00	0.00	0.00	0.00						94.248	96.629	7.42	14.9	18.0	14.0	7.14	10.7	12.0	9.0					
03/08/2019	6.98	0.10	15.2	10.4	11.9	927	725	4	8.8	6.0	10.2	0.00	0.00	0.00	0.00						96.258	94.453	8.12	13.4	31.6	26.2	8.02	7.1	9.6	8.6	45.00	50.00	0.52	18.00	<0.20
03/09/2019	6.82	<0.10	3.4		3.8	212	237		9.1	6.8	2.0	0.00	0.00	0.00	0.00						96.162	99.213	7.27	4.9	26.6		6.85	6.1	13.8						
03/10/2019	6.78	0.00	12.0	8.0	12.8	755	805	0	9.5	6.9	3.6	0.00	0.00	0.00	0.00						94.530	94.915	7.43	8.7	13.2	11.2	7.14	19.5	47.0	40.8					
03/11/2019	6.86	<0.10	263.0	215.0	78.0	20,004	5,933	2	8.9	6.9	3.7	0.00	0.00	0.00	0.00	2.37	180	1.21	92	0.15	64.865	16.772	7.53	16.2	38.8	31.4	7.06	86.4	566.0	476.0					
03/12/2019	6.87	<0.10	28.0	21.0	14.4	1,915	985	5	9.2	6.5	9.5	0.00	0.00	0.00	0.00						92.131	89.781	7.39	18.8	46.6	37.2	7.07	8.7	14.4	11.4					
03/13/2019	6.97	<0.10	17.8	14.0	9.3	1,201	627	7	9.4	6.7	3.8	0.00	0.00	0.00	0.00						97.224	92.458	7.28	15.3	44.8	37.4	6.84	5.6	9.4	8.2					
03/14/2019	6.65	<0.10	68.2	55.0	37.8	5,119	2,837	10	9.7	6.7	2.1	0.00	0.00	0.00	0.00						88.333	75.643	8.11	15.2	27.0	23.8	8.14	42.6	185.6	152.4					
03/15/2019	6.80	<0.10	48.4	36.4	42.0	5,869	5,093	3	9.6	6.1	2.2	0.00	0.00	0.00	0.00						63.158	73.696	7.55	2.6	6.4	3.8	7.15	14.7	51.4	45.0					
03/16/2019	6.97	0.00	30.8	24.2	43.2	3,943	5,530	510	7.9	5.1	5.5	0.00	0.00	0.00	0.00						50.345	65.778	7.70	2.0	6.2	5.2	7.45	5.1	13.2	11.0					
03/17/2019	6.80	0.00	68.8	65.6	56.4	7,167	5,875	3	8.1	5.6	1.1	0.00	0.00	0.00	0.00						49.189	42.667	7.53	3.5	7.2	4.0	7.16	61.2	235.0	197.0					
03/18/2019	7.18	0.10	108.4	86.4	46.2	10,243	4,366	760	8.0	6.8	12.5	0.00	0.00	0.00	0.00	1.92	181	2.70	255	0.18	68.356	59.248	7.45	17.2	55.4	44.0	7.15	73.2	257.0	219.0					
03/19/2019	6.95	0.10	24.2	18.0	45.6	2,188	4,122	20	8.6	7.2	4.3	0.00	0.00	0.00	0.00						75.351	89.478	7.45	5.8	16.4	12.6	7.11	13.2	14.2	10.2					
03/20/2019	6.91	<0.10	22.4	16.4	44.4	1,973	3,910	1	8.8	8.5	3.0	0.00	0.00	0.00	0.00						76.875	89.725	7.44	3.9	8.8	6.8	7.27	8.1	9.8	7.2					
03/21/2019	6.99	<0.10	31.0	22.4	40.2	2,712	3,517	104	8.8	8.7	15.8	0.00	0.00	0.00	0.00						82.054	88.168	7.50	11.7	27.4	22.6	7.17	11.7	9.6	7.2					
03/22/2019	7.04	0.30	37.6	30.6	43.8	3,848	4,482	857	8.5	8.0	27.7	0.00	0.00	0.00	0.00						64.098	81.386	7.45	2.5	3.7	2.8	7.11	3.5	5.9	5.4					
03/23/2019	7.27	0.30	27.0	22.4	43.8	2,486	4,033	18	9.4	7.2	15.2	0.00	0.00	0.00	0.00						73.929	81.250	7.41	2.0	4.8	4.0	7.52	3.0	8.4	5.4					
03/24/2019	6.95	0.01	27.2	20.6	40.2	2,470	3,651	55	8.7	8.4	16.0	0.00	0.00	0.00	0.00						71.489	85.376	7.48	2.2	4.6	2.2	7.19	4.1	9.2	6.8					
03/25/2019	6.78	<0.10	53.8	42.8	42.0	4,617	3,604	1	9.3	8.6	3.4	0.00	0.00	0.00	0.00	1.46	125	3.65	313	0.37	80.000	79.308	7.39	24.8	81.4	65.4	7.20	8.7	9.2	6.2					
03/26/2019	6.90	<0.10	43.2	33.0	40.8	3,542	3,345	10	9.3	7.9	3.8	0.00	0.00	0.00	0.00						81.622	85.205	7.36	21.2	70.2	56.0	7.05	6.0	8.2	6.2					
03/27/2019	6.84	0.20	11.2	6.4	9.7	879	761	4	9.2	7.8	3.2	0.00	0.00	0.00	0.00						95.855	95.912	7.26	2.9	5.6	3.6	6.93	6.4	7.0	4.6					
03/28/2019	6.80	<0.10	7.8	3.6	5.7	624	456	1	9.3	7.5	2.8	0.00	0.00	0.00	0.00						97.206	97.329	7.16	3.2	7.0	4.6	6.98	6.3	7.8	5.2					
03/29/2019	6.55	<0.10	22.8		7.6	1,860	620		9.9	7.1	2.5	0.00	0.00	0.00	0.00						96.696	92.500	6.98	14.1	46.0		7.10	17.3	8.2						
03/30/2019	6.58	<0.10	0.8		5.4	64	434	4	10.0	8.1	2.7	0.00	0.00	0.00	0.00						97.000	99.708	7.18	4.6	8.0		6.73	6.7	8.6						
03/31/2019	6.65	<0.10	9.0	8.2	10.4	811	937	3	10.3	7.9	1.9	0.00	0.00	0.00	0.00	0.24	22				94.317	94.767	7.32	4.0	5.4	4.6	6.94	8.1	8.8	8.0					
MMAVG														MMAVG		0.50																			
Min.	6.6	0.00	1	4	4	64	237	0	7.9	5.1	1			0.00	0.00	0.16	11	0.14	9	0.05	49.19	16.77	7.0	2.0	3.7	2.2	6.7	3.0	5.9	4.6	45.0	50	0.52	18.0	<0.20
Max.	7.3	0.30	263	215	78	20004	5933	857	10.3	8.7	28			0.00	0.00	2.37	181	3.65	313	0.37	97.88	99.71	8.1	24.8	81.4	65.4	8.1	86.4	566.0	476.0	45.0	50	0.52	18.0	<0.20
Total																																			
Average	6.9	<0.10	34	31	26	2923	2284	7	9.1	7.1	6			0.00	0.00	1.23	104	1.93	167	0.19	84.41	85.03	7.4	8.8	22.3	17.4	7.2	16.2	52.0	49.5	45.0	50	0.52	18.0	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
03/01/2019	7,350	7,350	6,000	6,200	10,910	11,250	5.72	6.44	3,597,120	3,525,120	51,338	51,338	4,167	45,591	6,089	67,813	116	116	6,170		5,200		10,650		6.29		3,542,400		71,321		4,394	50,981			139	
03/02/2019	7,090	7,390	6,090	6,250	11,220	9,930	5.87	4.44	3,483,360	3,672,000	49,522	51,617					110	108	6,300		5,380		10,760		9.98		3,481,920		72,823		2,848	32,400			133	
03/03/2019	6,960	7,170	5,790	5,920	10,800	10,130	6.44	4.46	3,595,680	3,553,920	48,614	50,081	3,964	43,169	3,614	43,204	118	119	6,780		5,590		10,530		9.68		3,614,400		86,694		1,435	16,128			131	
03/04/2019	7,030	7,440	5,850	6,060	10,990	10,750	6.00	2.62	3,627,360	3,569,760	49,103	51,967	3,825	42,840	3,554	41,207	121	117	7,020		5,580		10,450		5.97		3,608,640		81,146		3,413	38,326			131	
03/05/2019	6,600	6,510	5,790	5,990	10,280	9,800	4.07	3.07	3,575,520	3,640,320	46,099	45,471					118	123	6,660		5,790		10,140		6.78		3,612,960		76,985		2,711	30,869			132	
03/06/2019	5,670	5,730	5,870	5,960	9,570	9,780	5.27	4.17	3,628,800	3,584,160	39,604	40,023	3,780	44,170	3,729	43,710	150	155	5,840		5,580		9,910		6.56		3,676,320		67,506		1,592	17,928			158	
03/07/2019	7,240	7,040	5,920	5,820	10,640	10,360	5.71	2.49	3,530,880	3,536,640	50,570	49,173	3,754	44,700	3,580	43,080	116	118	7,030		5,770		10,450		6.83		3,594,240		81,261		3,744	41,402			131	
03/08/2019	7,230	7,600	6,040	6,490	10,240	10,580	5.48	1.70	3,559,680	3,670,560	50,500	53,084	3,493	42,564	4,388	43,391	118	116	7,060		6,060		10,880		2.98		4,114,080		81,608		2,417	26,063			129	
03/09/2019	6,760	6,820	5,680	6,170	10,760	9,850	6.30	2.80	3,598,560	3,621,600	47,217	47,636					104	106	7,070		6,140		9,430		6.24		4,047,840		81,724		5,646	71,792			113	
03/10/2019	6,700	7,200	5,760	6,100	10,440	9,510	6.20	2.40	3,552,480	3,584,160	46,798	50,290					109	99	7,340		5,960		10,210				3,880,800		84,845						104	
03/11/2019	7,050	7,260	5,830	6,000	11,130	10,450	5.69	6.84	3,625,920	3,643,200	49,242	50,709	4,020	43,312			121	116	6,690		5,550		10,910		10.00		3,676,320		77,331						135	
03/12/2019	6,760	6,990	5,730	5,810	10,030	10,470	6.31	2.68	3,600,000	3,597,120	47,217	48,823	3,761	43,200	1,536	17,867	126	120	6,310		5,290		10,040		10.00		3,817,440		72,939		4,157	49,650			143	
03/13/2019	6,740	6,920	5,660	5,780	10,220	10,270	4.45	2.06	3,559,680	3,553,920	47,077	48,334					126	123	6,350		5,360		10,380		10.00		3,795,840		73,401		3,979	46,728			139	
03/14/2019	6,940	7,040	5,790	5,870	10,630	10,890	4.15	5.31	3,515,040	3,513,600	48,474	49,173	8,611	99,475	2,166	25,379	123	119	7,140		5,730		10,990		5.54		3,650,400		82,533						132	
03/15/2019	6,670	6,710	5,620	5,570	10,380	10,740	7.69	7.22	3,621,600	3,628,800	46,588	46,868	4,339	48,349			117	119	5,890		4,910		10,570		10.00		3,663,360		68,084		8,089	86,371			139	
03/16/2019	7,290	7,390	6,070	6,090	11,300	10,810	9.20	9.00	3,617,280	3,604,320	50,919	51,617					96	96	6,470		5,340		10,660		8.25		3,637,440		74,788						119	
03/17/2019	7,040	7,180	5,860	5,950	11,860	10,900	8.66	8.23	3,578,400	3,562,560	49,173	50,151					105	102	5,230		4,340		10,320		6.36		3,607,200		60,455		7,578	86,623			130	
03/18/2019	7,090	7,070	5,890	5,990	10,700	10,950	8.20	8.11	3,528,000	3,574,080	49,522	49,382					114	117	5,870		4,860		9,880		9.18		3,700,800		67,853						145	
03/19/2019	6,790	6,560	5,600	5,650	10,780	10,720	7.30	0.35	3,466,080	3,564,000	47,426	45,820	4,408	50,093			111	117	4,540		4,050		9,600				3,657,600		52,479						143	
03/20/2019	6,910	7,210	5,700	5,990	10,700	11,090	6.30	6.10	3,581,280	3,575,520	48,265	50,360					109	105	5,620		4,660		10,090		6.23		3,696,480		64,963		4,078	50,940			121	
03/21/2019	8,140	8,000	6,760	6,900	11,510	10,860	4.80	3.20	3,587,040	3,493,440	56,856	55,878	4,150	47,940			91	88	7,020		5,920		9,680		7.90		3,556,800		81,146		1,681	21,000			107	
03/22/2019	7,570	7,680	6,320	6,370	10,850	10,890	6.00	6.00	3,664,800	3,559,680	52,875	53,643	5,919	67,719			93	91	6,820		5,670		9,730		7.81		3,528,000		78,834						107	
03/23/2019	7,910	8,100	6,480	6,750	11,000	9,940	7.23	8.10	3,479,040	3,476,160	55,249	56,576	1,952	21,570			110	107	6,730		5,670		8,780		8.49		3,674,880		77,794		3,939	51,034			128	
03/24/2019	7,080	6,970	5,760	5,720	10,650	10,360	6.74	7.74	3,648,960	3,696,480	49,452	48,684	1,733	20,060			119	119	6,150		4,860		7,930		8.60		3,634,560		71,089		1,556	21,254			135	
03/25/2019	7,590	8,130	6,110	6,640	10,860	10,350	8.60	8.00	3,600,000	3,600,000	53,014	56,786	1,814	21,000			104	98	6,550		5,290		8,870		7.00	0.00	3,600,000		75,713		3,220	48,686			119	
03/26/2019	7,150	7,460	5,900	6,050	10,400	10,860			3,420,000	3,528,000	49,941	52,106	4,886	56,334	3,626	43,047	118	113	6,150		5,050		8,990		7.80		3,600,000		71,089		1,629	23,090			140	
03/27/2019	5,570	5,840	4,480	4,760	11,000	11,320	7.17	6.42	2,160,000	2,160,000	38,905	40,791	8,854	97,308			113	113	5,370		4,330		9,620		9.19		3,600,000		62,073						149	
03/28/2019	5,500	5,590	4,530	4,670	11,630	11,190	6.42	5.59	2,160,000	2,160,000	38,416	39,045	3,533	38,515			120	123	5,420		4,440		9,880		6.54		3,600,000		62,651		4,867	65,350			151	
03/29/2019	5,410	5,460	4,460	4,510	11,060	10,480	5.22	4.13	2,181,600	2,188,800	37,787	38,137	4,700	51,065	4,405	50,400	126	125	5,450		4,450		9,260		5.76		3,673,440		62,998		7,533	98,091			147	
03/30/2019	4,630	4,550	3,870	3,850	12,190	10,780	4.88	4.51	2,194,560	2,174,400	32,339	31,781	3,354	34,666	4,479	49,818	134	139	5,150		4,390		9,860		6.76		3,633,120		59,530		3,489	43,596			157	
03/31/2019	5,120	5,220	4,330	4,390	11,390	10,400	3.72	2.54	2,157,120	2,139,840	35,762	36,460	4,558	47,981	7,474	85,482	125	128	5,490		4,530		9,160		6.20		3,657,600		63,460						148	
MMAVG																																				
Min.	4,630	4,550	3,870	3,850	9,570	9,510	4	0	2,157,120	2,139,840	32,339	31,781	1,733	20,060	1,536	17,867	91	88	4,540		4,050		7,930		3	0	3,481,920		52,479		1,435	16,128			104	
Max.	8,140	8,130	6,760	6,900	12,190	11,320	9	9	3,664,800	3,696,480	56,856	56,786	8,854	99,475	7,474	85,482	150	155	7,340		6,140		10,990		10	0	4,114,080		84,845		8,089	98,091			158	
Total									103,695,840	103,952,160	1,463,864	1,491,804	93,575	1,051,621	48,640	554,398											113,834,880		2,238,794		83,995	1,018,302				
Average	6,761	6,890	5,663	5,815	10,843	10,537	6	5	3,345,027	3,353,295	47,221	48,123	4,253	47,801	4,053	46,200	115	115	6,248		5,217		9,955		8	0	3,672,093		72,219		3,818	46,286			133	

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
04/01/2019	9.73	13.04		0.00	0.000	0.000	35,609		32.0	9.4	7.66	210	302	17,041	24,507		7.68	16.0	307	260	246	24,912	19,962		
04/02/2019	9.39	13.67	6.18	0.05	0.000	0.000	50,121		30.0	8.8	7.55	360	276	28,193	21,614		7.64	1.2	123	99	167	9,632	13,078		
04/03/2019	9.42	13.60	6.21	0.00	0.000	0.121	6,019		34.0	9.2	7.51	237	282	18,619	22,155		7.64	0.8	114	89	173	8,956	13,591		
04/04/2019	8.97	13.37	5.66	0.00	0.000	0.000	48,242		34.0	9.8	7.51	258	302	19,301	22,593		7.56	1.3	113	88	132	8,454	9,875		
04/05/2019	9.30	13.05	5.85	0.15	0.000	0.000	47,518		33.0	9.3	7.53	96	284	7,446	22,028		7.52	7.0	204	174	108	15,823	8,377		
04/06/2019	8.94	13.15	5.83	0.00	0.000	0.000	5,868		38.0	10.9	7.46	84	340	6,263	25,350		7.39	1.5	106		93	7,903	6,934		
04/07/2019	8.92	15.10	5.75	0.40	0.000	0.000			39.0	9.8	7.53	201	266	14,953	19,788		7.60	25.0	326	302	287	24,252	21,351		
04/08/2019	11.05	17.71	6.96	0.17	0.000	0.668			44.0	10.6	7.28	161	214	14,837	19,722		7.55	5.0	150	118	161	13,824	14,837		
04/09/2019	10.20	17.34	7.08	0.16	0.000	0.213	51,291		33.0	9.8	7.64	203	314	17,269	26,711		7.70	3.0	121	107	177	10,293	15,057		
04/10/2019	9.73	13.84	6.90	0.00	0.000	0.000	59,139		34.0	10.0	7.53	230	254	18,664	20,612		7.59	5.5	168	147	213	13,633	17,285		
04/11/2019	9.49	14.07	6.17	0.00	0.000	0.000	47,246		30.0	10.8	7.55	294	314	23,269	24,852		7.65	2.5	121	107	162	9,577	12,822		
04/12/2019	9.43	17.88	7.17	0.22	0.000	0.002	49,327		38.0	10.9	7.44	228	220	17,931	17,302		7.50	3.0	76	74	161	5,977	12,662		
04/13/2019	11.73	13.53	6.85	0.00	0.000	0.000	14,668		60.0	10.4	7.44	176	142	17,218	13,892		7.39	3.5	103	85	117	10,076	11,446		
04/14/2019	10.56	30.34	6.97	0.20	0.000	1.490	8,225		53.0	10.6	7.54	201	228	17,702	20,080		7.44	9.0	134	132	197	11,801	17,350		
04/15/2019	19.69	32.84	12.09	0.24	0.000	6.269			52.0	10.4	7.68	146	218	23,975	35,799		7.67	2.5	131	24	129	21,512	21,184		
04/16/2019	15.11	18.08	10.57	0.00	0.000	3.740			36.0	10.1	7.75	125	122	15,752	15,374		7.70	0.6	89	77	119	11,216	14,996		
04/17/2019	13.23	16.21	0.00	0.00	0.000	1.230	64,856		33.0	10.0	7.68	188	212	20,744	23,392		7.62	0.6	96	84	150	10,592	16,551		
04/18/2019	12.84	18.02	8.70	0.00	0.000	0.000	59,223		38.0	10.2	7.58	203	216	21,738	23,130		7.66	3.0	137	114	144	14,671	15,420		
04/19/2019	11.81	14.52	5.08	0.23	0.000	0.000	33,115		57.0	10.3	7.03	102	132	10,047	13,001		7.68	2.0	72	77	105	7,092	10,342		
04/20/2019	12.98	23.76	8.01	0.24	0.000	0.325	5,809		50.0	10.7	7.01	102	120	11,042	12,990		7.32	0.0	67	67	60	7,253	6,495		
04/21/2019	11.87	14.63	7.73	0.01	0.000	0.000					7.59	105	140	10,395	13,859		7.61	1.0	76	68	81	7,524	8,019		
04/22/2019	15.44	26.73	7.74	1.11	0.000	6.056	54,875		56.0	10.3	7.55	173	270	22,277	34,768		7.50	0.9	97	80	84	12,491	10,817		
04/23/2019	18.25	20.34	12.64	0.17	0.000	4.199			50.0	9.7	7.69	96	118	14,612	17,960		7.62	0.7	67	58	63	10,198	9,589		
04/24/2019	14.99	18.14	10.71	0.00	0.000	1.710	5,433		49.0	9.8	7.68	117	130	14,627	16,252		7.72	0.8	64	54	75	8,001	9,376		
04/25/2019	14.71	19.58	9.27	0.05	0.000	2.380	36,223		3.8	9.7	7.37	141	162	17,298	19,874		7.45	2.2	97	81	93	11,900	11,409		
04/26/2019	17.04	31.73	11.27	0.25	0.000	9.770			48.0	9.3	7.59	120	170	17,054	24,159		7.35	1.5	62	45	60	8,811	8,527		
04/27/2019	23.47	25.74	14.14	0.00	0.000	7.611			41.0	10.6	7.74	60	33	11,744	6,459		7.49	0.5	115	109	60	22,510	11,744		
04/28/2019	17.53	19.98	12.03	0.00	0.000	5.013			45.0	10.7	7.78	81	112	11,842	16,374		7.54	0.2	43	31	60	6,287	8,772		
04/29/2019	15.49	18.34	11.62	0.08	0.000	2.131			40.0	11.1	7.65	122	112	15,761	14,469		7.64	12.0	201	162	147	25,967	18,990		
04/30/2019	14.74	19.19	9.92	0.00	0.000	1.458			46.0	11.2	7.57	114	176	14,014	21,636		7.56	32.0	408	323	228	50,156	28,028		
MMAVG	9.87																								
Min.	8.9	13.0	0.0	0.0		0.000	5,433		3.8	8.8	7.01	60	33	6,263	6,459		7.32	0.0	43	24	60	5977	6495		
Max.	23.5	32.8	14.1	1.1		9.770	64,856		60.0	11.2	7.78	360	340	28,193	35,799		7.72	32.0	408	323	287	50156	28028		
Total	386.1	557.5	235.1	3.7		54.386	682,807																		
Average	12.9	18.6	8.1	0.1		1.813	35,937		40.58	10.15	7.54	164	206	16388	20357		7.57	4.8	133	112	135	13710	13496		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																			PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
04/01/2019	6.67	<0.10	20.8	12.4	18.5	1,688	1,501	2	9.9	7.4	2.5	0.00	0.00	0.00	0.00	0.42	34	1.70	138		91.190	93.113	7.43	13.5	29.6	24.6	7.18	16.2	15.2	11.2					
04/02/2019	7.01	<0.10	56.6	43.6	21.0	4,432	1,645	1	9.8	8.4	3.9	0.00	0.00	0.00	0.00	1.25	98				94.167	79.493	7.38	34.8	108.6	87.4	7.09	8.7	12.2	9.2					
04/03/2019	6.87	0.20	15.0	10.6	14.7	1,178	1,155	11	10.2	8.2	5.3	0.00	0.00	0.00	0.00						93.797	94.681	7.51	6.8	14.0	11.8	7.14	4.5	9.6	8.0					
04/04/2019	6.77	<0.10	7.4	4.8	6.6	554	494	6	10.1	8.4	2.9	0.00	0.00	0.00	0.00						97.442	97.550	7.38	3.7	6.6	6.0	7.08	5.5	9.8	7.4					
04/05/2019	6.85	0.30	12.0	9.6	5.9	931	458	36	10.1	8.0	8.0	0.00	0.00	0.00	0.00						93.854	95.775	7.25	3.5	7.4	6.2	6.83	18.9	62.0	58.6					
04/06/2019	6.79	0.00	7.2		5.3	537	395	2	10.5	8.5	2.2	0.00	0.00	0.00	0.00						93.690	97.882	7.13	3.5	9.4		6.83	28.7	124.4						
04/07/2019	6.67	0.00	9.8	7.2	6.2	729	461	1	10.8	8.5	1.9	0.00	0.00	0.00	0.00	0.23	17				96.915	96.316	7.32	3.9	8.0	5.4	7.04	21.6	144.6	142.2					
04/08/2019	6.72	0.20	29.4	21.0	21.6	2,709	1,991	32	11.2	6.6	9.5	0.00	0.00	0.00	0.00	0.44	41	1.84	170		86.584	86.262	7.22	5.8	8.0	5.0	7.08	28.2	150.0	134.8					
04/09/2019	6.71	<0.10	106.0	87.0	38.1	9,017	3,241	4	10.4	8.2	3.4	0.00	0.00	0.00	0.00	1.19	101				81.232	66.242	7.20	5.6	11.0	8.6	6.98	81.6	74.8	64.4	56.00	290.00	1.40	23.00	<0.20
04/10/2019	6.88	<0.10	8.8	6.2	8.1	714	657	7	10.3	8.2	5.5	0.00	0.00	0.00	0.00						96.478	96.535	7.30	4.7	7.4	4.0	7.00	18.6	83.2	75.4					
04/11/2019	6.84	<0.10	8.6	6.0	4.8	681	380	2	10.3	8.2	8.5	0.00	0.00	0.00	0.00						98.367	97.261	7.15	4.6	9.4	7.4	7.00	26.0	248.4	236.0					
04/12/2019	6.65	<0.10	19.4	14.8	11.6	1,526	912		10.8	7.3	3.7	0.00	0.00	0.00	0.00						94.912	91.182	8.05	4.6	5.2	3.4	8.02	30.6	84.8	71.4					
04/13/2019	6.63	1.00	21.2	16.8	13.1	2,074	1,282	14	11.3	6.7	5.8	0.00	0.00	0.00	0.00						92.557	85.070	8.09	4.6	9.2	5.6	8.01	37.2	75.6	65.8					
04/14/2019	6.65	<0.10	27.4	22.8	12.8	2,413	1,127	1	11.5	8.3	2.2	0.00	0.00	0.00	0.00	0.53	47				93.632	87.982	8.12	4.6	4.4	7.0	7.97	25.8	76.0	69.4					
04/15/2019	6.77	7.50	85.6	61.6	63.6	14,057	10,444	4300	10.8	6.7	40.4	0.00	0.00	0.00	0.00	1.39	228	4.40	723		56.438	60.734	7.46	4.8	6.4	5.4	7.04	69.6	53.0	43.2					
04/16/2019	6.83	70.00	67.2	53.0	57.6	8,468	7,259	6100	10.3	5.9	334.0	0.00	0.00	0.00	0.00	1.38	174				53.920	44.918	7.38	4.6	6.2	4.4	7.14	20.3	78.8	66.4					
04/17/2019	7.03	<0.10	70.0	46.0	40.2	7,724	4,436	67	10.3	8.0	14.2	0.00	0.00	0.00	0.00						78.617	66.981	7.20	5.9	8.2	6.8	7.04	58.8	243.0	217.0					
04/18/2019	6.76	<0.10	12.0	8.4	8.6	1,285	921	9	10.9	7.4	6.5	0.00	0.00	0.00	0.00						95.764	94.444	7.27	5.9	8.6	7.2	7.05	15.3	24.0	21.2					
04/19/2019	6.66	<0.10	8.8	8.6	5.7	867	561	5	11.3	7.0	2.9	0.00	0.00	0.00	0.00						94.412	93.333	7.22	5.4	10.8	10.2	7.01	5.7	3.8	3.0					
04/20/2019	6.60	0.00	8.2	6.6	6.9	888	747	7	11.9	7.7	3.0	0.00	0.00	0.00	0.00						93.235	93.167	7.45	4.4	6.6	27.2	7.49	6.1	8.0	6.2					
04/21/2019	6.52	0.00	4.4	3.2	5.4	436	535	3	7.9	12.0	5.0	0.00	0.00	0.00	0.00	0.15	15				94.857	96.857	7.06	4.5	9.0	6.4	6.94	4.2	6.6	4.2					
04/22/2019	6.61	<0.10	29.4	22.0	29.4	3,786	3,786	9	11.5	7.7	2.9	0.00	0.00	0.00	0.00	0.46	59	2.84	366		83.006	89.111	7.27	5.2	11.2	8.2	7.10	7.1	10.2	7.2					
04/23/2019	6.89	<0.10	18.8	13.8	25.2	2,861	3,836	26	11.7	7.7	11.0	0.00	0.00	0.00	0.00	0.48	73				73.750	84.068	7.16	5.1	5.8	4.4	7.15	7.2	15.0	12.7		82.00			
04/24/2019	6.94	<0.10	27.0	21.4	28.2	3,375	3,525	8000	11.2	7.6	7.6	0.00	0.00	0.00	0.00						75.897	79.231	7.32	3.0	6.6	7.6	7.35	20.7	67.4	56.6					
04/25/2019	6.97	<0.10	43.2	33.4	31.5	5,300	3,864	0	11.4	8.2	3.5	0.00	0.00	0.00	0.00						77.660	73.333	7.14	4.2	6.8	4.8	7.00	33.6	132.0	109.0					
04/26/2019	6.64	<0.10	29.2	26.4	23.7	4,150	3,368	0	11.9	7.1	3.9	0.00	0.00	0.00	0.00						80.250	82.824	7.28	4.1	7.2	5.6	6.90	6.6	15.4	6.6					
04/27/2019	6.91	0.10	16.8	14.4	15.3	3,288	2,995	2	10.2	8.5	12.2	0.00	0.00	0.00	0.00						74.500	49.091	7.40	3.2	9.4	9.0	7.04	6.2	15.2	13.6					
04/28/2019	7.04	0.10	16.4	11.4	18.3	2,398	2,675	2	10.8	8.6	4.1	0.00	0.00	0.00	0.00	0.35	51				77.407	85.357	7.44	3.4	6.4	4.8	7.29	4.5	16.6	13.2					
04/29/2019	6.92	<0.10	30.4	23.2	33.0	3,927	4,263	21	11.0	8.2	7.9	0.00	0.00	0.00	0.00	0.52	67	1.71	221		72.951	72.857	7.30	3.7	9.0	6.6	7.16	13.1	36.6	30.2					
04/30/2019	6.87	<0.10	41.6	32.0	31.8	5,114	3,909	8	11.5	7.7	7.7	0.00	0.00	0.00	0.00	0.83	102				72.105	76.364	7.21	3.5	8.8	6.4	6.90	25.2	106.6	81.8					
MMAVG													MMAVG			0.48																		
Min.	6.5	0.00	4	3	5	436	380	0	7.9	5.9	2			0.00	0.00	0.15	15	1.70	138		53.92	44.92	7.1	3.0	4.4	3.4	6.8	4.2	3.8	3.0	56.0	82	1.40	23.0	<0.20
Max.	7.0	70.00	106	87	64	14057	10444	8000	11.9	12.0	334			0.00	0.00	1.39	228	4.40	723		98.37	97.88	8.1	34.8	108.6	87.4	8.0	81.6	248.4	236.0	56.0	290	1.40	23.0	<0.20
Total																																			
Average	6.8	<2.71	29	22	20	3237	2427	11	10.7	7.9	18			0.00	0.00	0.69	79	2.50	323		85.32	83.60	7.4	5.8	12.2	10.6	7.2	21.9	66.8	56.8	56.0	186	1.40	23.0	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
04/01/2019	4,850	6,270	4,060	4,150	10,290	10,370	2.67	1.82	1,991,520	2,148,480	33,876	43,794	3,461	38,283	3,367	38,876	128	99	5,180		4,200		9,180		3.50		2,908,800		59,877						145	
04/02/2019	6,050	5,780	5,030	4,820	11,740	11,200	4.72	4.36	2,160,000	2,160,000	42,258	40,372					106	118	5,790		4,800		11,120		2.97		3,600,000		66,928		935	10,775			135	
04/03/2019	6,240	6,200	5,200	5,140	11,000	10,330	5.23	4.98	2,797,920	2,872,800	43,585	43,305	8,987	96,000	4,239	48,000	115	115	6,090		5,020		10,350		4.51		3,660,480		86,694						130	
04/04/2019	5,590	5,340	4,760	4,600	10,680	9,680	5.13	5.04	2,779,200	2,740,320	39,045	37,299	10,052	108,230	6,723	82,954	131	137	6,190		5,370		10,440		5.60		3,634,560		71,552		5,050	58,000			129	
04/05/2019	5,960	6,120	4,950	4,930	11,270	10,240	7.98	8.21	2,851,200	2,872,800	41,629	42,747	4,952	53,713	4,606	53,776	134	131	6,690		5,480		10,420		8.51		3,640,320		77,331		4,932	54,056			135	
04/06/2019	6,210	6,130	5,140	5,000	11,000	10,530	7.77	7.87	2,858,400	2,816,640	43,375	42,817					121	122	6,510		5,380		10,510		10.00		3,644,640		75,251						132	
04/07/2019	5,850	6,030	4,830	4,890	11,320	10,850	5.71	6.01	2,100,960	2,128,320	40,861	42,118					123	121	6,750		5,510		10,720		10.00		3,610,080		78,025						124	
04/08/2019	6,030	6,290	5,020	5,270	12,430	12,180	1.56	2.00	2,158,560	2,142,720	42,118	43,934	5,236	52,866	5,213	54,286	133	127	6,000		5,010		11,980		4.58		3,578,400		69,355		5,058	53,643			150	
04/09/2019	5,400	5,510	3,790	4,530	12,790	10,850	4.82	5.35	2,191,680	2,207,520	37,718	38,486	5,079	53,898	5,009	54,276	126	123	5,940		5,560		11,710		4.98		3,611,520		68,662						135	
04/10/2019	5,630	5,750	4,700	4,810	11,660	11,070	5.06	5.48	2,190,240	2,210,400	39,324	40,162					128	118	5,940		4,990		11,610		5.33		3,647,520		68,662		5,099	54,228			138	
04/11/2019	5,260	5,140	4,410	4,340	11,490	10,630	6.28	6.32	2,174,400	2,191,680	36,740	35,902					133	136	5,740		4,760		12,350		6.63		3,614,400		66,350		5,123	54,093			139	
04/12/2019	5,150	5,030	4,810	4,550	11,220	11,020	5.25	5.50	2,161,440	2,178,720	35,971	35,133	4,919	53,134	4,904	53,849	146	139	6,010		5,240		11,200		6.00		3,555,360		69,471		5,037	53,922			141	
04/13/2019	5,590	5,760	4,820	4,770	12,330	10,890	5.60	6.00	2,145,600	2,124,000	39,045	40,232					125	118	5,050		4,260		10,790		4.72		3,503,520		58,374						139	
04/14/2019	2,960	2,130	880	680	12,320	11,080	7.80	7.70	2,196,000	2,190,240	20,675	14,878					203	282	1,970		1,000		3,970		5.20		3,657,600		22,772						381	
04/15/2019	5,530	5,370	4,660	4,470	11,650	11,800	5.20	5.70	2,088,000	2,128,320	38,626	37,508	5,428	54,301	4,470	46,850	103	108	4,630		3,910		10,810		7.80		3,689,280		53,519						130	
04/16/2019	5,230	5,230	4,300	4,290	11,460	11,540	7.27	7.70	2,131,200	2,109,600	36,530	36,530	5,120	53,571	5,195	53,980	122	119	4,110		3,400		10,540		8.25		3,625,920		47,508						131	
04/17/2019	5,930	5,840	5,050	4,950	11,960	11,910	7.75	8.12	2,109,600	2,184,480	41,420	40,791					110	111	6,510		5,480		9,950		8.10		3,601,440		75,251		4,574	52,513			123	
04/18/2019	5,230	5,500	3,750	4,540	11,570	11,510	6.86	7.41	2,145,600	2,203,200	36,530	38,416	5,386	53,970	5,004	54,034	115	107	4,340		3,850		10,050		6.55		4,191,840		50,167						138	
04/19/2019	4,730	5,210	3,890	4,300	12,170	11,510	4.82	5.53	2,099,520	2,131,200	33,038	36,391	5,528	54,066	5,220	54,210	91	86	5,560		4,580		10,620		6.69		4,129,920		64,269						113	
04/20/2019	5,340	5,440	4,460	4,540	12,310	11,910	4.82	5.67	2,106,720	2,126,880	37,299	37,997					101	96	6,370		5,280		10,910		6.60		4,219,200		73,632						127	
04/21/2019	5,150	5,170	4,430	4,330	12,280	11,080	5.80	5.80	2,908,800	2,851,200	35,971	36,111					113	97	6,410		5,230		10,940		6.50		4,276,800		74,095						109	
04/22/2019	5,950	5,810	5,090	4,970	11,180	10,960	4.60	4.80	2,927,520	2,736,000	41,559	40,581					108	112	6,500		5,570		9,950		6.80		4,263,840		75,135		4,721	54,193			119	
04/23/2019	5,900	5,880	5,020	4,980	11,490	11,030	7.30	7.53	2,828,160	2,950,560	41,210	41,070	5,091	54,001	4,955	53,982	107	78	6,470		5,420		10,940		6.52		4,396,320		74,788						70	
04/24/2019	5,700	5,780	4,840	4,890	11,240	11,150	7.64	7.68	2,943,360	2,822,400	39,813	40,372					95	99	6,480		5,260		10,540		7.92		4,383,360		74,904		4,747	54,000			111	
04/25/2019	5,710	5,540	4,800	4,730	11,450	10,880	7.50	7.40	2,959,200	2,920,320	39,883	38,696	4,851	53,828	4,890	52,469	131	130	6,170		5,330		9,530		7.10		4,775,040		71,321						138	
04/26/2019	4,990	5,340	4,930	5,270	11,010	10,980	7.03	7.03	2,833,920	2,976,480	34,854	37,299					108	101	5,490		5,380		10,250		5.01		4,608,000		63,460		4,585	53,973			135	
04/27/2019	5,590	5,830	4,450	4,600	11,770	11,030	9.61	9.61	2,800,800	2,786,400	39,045	40,721					134	113	6,270		4,950		10,240		9.00		4,371,840		72,476						131	
04/28/2019	5,790	5,950	4,620	4,870	11,350	10,610	9.76	9.77	2,757,600	2,770,560	40,442	41,559					109	108	6,830		5,130		9,120		9.22		4,358,880		78,950						122	
04/29/2019	7,220	6,280	5,960	5,040	11,710	11,530	9.79	9.75	2,880,000	2,880,000	50,430	43,864	5,211	54,193	4,989	54,041	89	108	6,430		5,080		10,180		9.65		4,320,000		74,326						128	
04/30/2019	5,930	5,770	4,770	4,410	11,880	11,290	4.18	4.58	2,880,000	2,880,000	41,420	40,302					103	109	5,960		4,690		10,340		6.40		4,320,000		68,893		4,690	53,964			126	
MMAVG																																				
Min.	2,960	2,130	880	680	10,290	9,680	2	2	1,991,520	2,109,600	20,675	14,878	3,461	38,283	3,367	38,876	89	78	1,970		1,000		3,970		3		2,908,800		22,772		935	10,775			70	
Max.	7,220	6,290	5,960	5,270	12,790	12,180	10	10	2,959,200	2,976,480	50,430	43,934	10,052	108,230	6,723	82,954	203	282	6,830		5,570		12,350		10		4,775,040		78,950		5,123	58,000			381	
Total									74,157,120	74,442,240	1,164,290	1,169,387	79,301	834,054	68,784	755,583											117,398,880		2,015,700		54,551	607,360				
Average	5,556	5,581	4,581	4,589	11,601	11,055	6	6	2,471,904	2,481,408	38,810	38,980	5,664	59,575	4,913	53,970	120	119	5,813		4,837		10,375		7		3,913,296		67,190		4,546	50,613			137	

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
05/01/2019	13.79	17.03	9.59	0.01	0.000	0.864	35,817		45.0	11.1	7.52	149	194	17,136	22,312		7.57	27.0	417	327	285	47,959	32,777		
05/02/2019	13.72	18.87	9.39	0.18	0.000	1.198			47.0	12.2	7.58	153	204	17,507	23,343		7.69	25.0	380	306	231	43,481	26,432		
05/03/2019	13.83	20.55	9.59	0.08	0.000	0.951	2,535		47.0	11.6	7.59	60	214	6,921	24,683		7.48	15.0	266		66	30,681	7,613		
05/04/2019	13.38	15.47	9.07	0.00	0.000	0.000	20,648		50.0	11.8	7.42	197	164	21,983	18,301		7.40	10.0	181	140	138	20,198	15,399		
05/05/2019	13.02	15.47	8.59	0.00	0.000	1.154	3,993		51.0	11.5	7.67	156	148	16,940	16,071		7.59	8.0	157	121	153	17,048	16,614		
05/06/2019	12.22	14.44	7.75	0.00	0.000	0.000	56,337		48.0	11.6	7.46	215	254	21,912	25,886		7.56	3.8	123	107	156	12,536	15,899		
05/07/2019	12.02	16.77	7.49	0.11	0.000	0.000	61,003		50.0	11.6	7.56	195	336	19,548	33,683		7.57	8.0	179	151	174	17,944	17,443		
05/08/2019	12.56	13.95	7.15	0.00	0.000	0.000	60,549		49.0	11.8	7.51	207	246	21,683	25,769		7.55	12.0	220	190	273	23,045	28,597		
05/09/2019	12.27	21.88	6.58	0.00	0.000	0.003	58,967		40.0	12.0							7.62	8.0	201	161	158	20,569	16,168		
05/10/2019	13.35	13.33	6.81	0.02	0.000	1.590	34,559		49.0	12.1	7.46	182	490	20,264	54,556		7.45	10.0	228		114	25,385	12,693		
05/11/2019	12.35	13.12	6.18	0.00	0.000	0.614	13,072		53.0	12.0	7.57	84	310	8,652	31,930		7.44	11.0	210		111	21,630	11,433		
05/12/2019	12.71	14.06	6.35	0.20	0.000	0.852			50.0	11.9	7.57	144	216	15,264	22,896		7.65	11.0	189	155	143	20,034	15,158		
05/13/2019	11.51	18.86	7.54	0.54	0.000	2.614	68,524		42.0	12.7	7.55	203	310	19,487	29,758		7.61	4.5	158	130	120	15,167	11,519		
05/14/2019	11.08	14.20	7.00	0.04	0.000	0.000	74,030		38.0	12.7	7.62	206	290	19,036	26,798		7.61	6.5	174	147	149	16,079	13,769		
05/15/2019	10.27	13.34	6.60	0.02	0.000	0.490	43,554		43.0	12.6	7.59	207	432	17,730	37,002		7.64	8.5	208	179	164	17,816	14,047		
05/16/2019	10.01	13.34	6.42	0.02	0.000	0.000	78,046		46.0	12.6	7.52	185	312	15,444	26,047		7.59	11.0	249	212	197	20,787	16,446		
05/17/2019	9.97	14.39	6.02	0.10	0.000	0.602	4,221		40.0	12.6	7.56	219	236	18,210	19,623		7.58	8.0	144	118	156	11,974	12,971		
05/18/2019	9.29	12.21	5.52	0.10	0.000	0.341	14,779		53.0	12.7	7.64	179	232	13,869	17,975		7.58	11.0	173	148	140	13,404	10,847		
05/19/2019	10.10	22.58	5.76	0.40	0.000	0.490	4,320		51.0	12.9	7.68	141	218	11,877	18,363		7.55	7.0	158	145	119	13,309	10,024		
05/20/2019	9.62	12.60	5.50	0.15	0.000	0.000	64,167		70.0	13.1	7.62	186	308	14,923	24,711		7.66	10.5	230	207	159	18,453	12,757		
05/21/2019	8.40	12.20	5.90	0.00	0.000	0.000	76,105		45.0	13.4	7.34	344	392	24,099	27,462		7.29	8.5	241	204	276	16,883	19,335		
05/22/2019	8.99	12.30	5.30	0.00	0.000	0.000	88,184		46.0	13.4	7.52	300	392	22,493	29,391		7.60	3.5	156	127	143	11,696	10,722		
05/23/2019	9.29	20.62	4.78	0.30	0.000	0.237	61,408		45.0	13.4	7.58	363	460	28,125	35,640		7.63	5.0	160	133	176	12,397	13,636		
05/24/2019	9.04	12.06	4.95	0.00	0.000	0.000	61,070		53.0	13.9	7.76	156	274	11,761	20,658		7.65	4.0	172	133	92	12,968	6,936		
05/25/2019	8.24	15.90	4.90	0.10	0.000	0.770	28,095		60.0	13.7	7.51	131	268	9,003	18,417		7.62	3.0	208	162	93	14,294	6,391		
05/26/2019	8.58	11.82	4.69	0.00	0.000	0.000			62.0	13.2	7.35	128	144	9,159	10,304		7.20	3.0	153	138	126	10,948	9,016		
05/27/2019	8.17	11.83	4.70	0.00	0.000	0.000	271		60.0	13.5	7.57	300	256	20,441	17,443		7.51	7.0	186	156	155	12,674	10,561		
05/28/2019	9.44	15.22	4.87	0.45	0.000	0.720	27,137		52.0	14.1	7.63	228	280	17,950	22,044		7.78	3.0	101	77	125	7,952	9,841		
05/29/2019	8.59	11.61	4.54	0.01	0.000	0.000	63,020		45.0	14.0	7.64	249	322	17,839	23,068		7.80	3.0	122	102	165	8,740	11,821		
05/30/2019	8.29	11.42	4.73	0.03	0.000	0.400	99,107		47.0	14.1	7.45	294	392	20,327	27,102		7.65	5.0	174	145	183	12,030	12,652		
05/31/2019	7.82	11.95	4.69	0.00	0.000	0.000	47,142		60.0	14.1	7.31	222	1194	14,479	77,871		7.47	4.5	142	114	135	9,261	8,805		
MMAVG	10.05																								
Min.	7.8	11.4	4.5	0.0		0.000	271		38.0	11.1	7.31	60	144	6,921	10,304		7.20	3.0	101	77	66	7952	6391		
Max.	13.8	22.6	9.6	0.5		2.614	99,107		70.0	14.1	7.76	363	1194	28,125	77,871		7.80	27.0	417	327	285	47959	32777		
Total	331.9	463.4	199.0	2.9		13.890	1,250,660																		
Average	10.7	14.9	6.4	0.1		0.448	44,666		49.58	12.71	7.55	199	316	17135	26970		7.57	8.6	195	158	157	17979	14139		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
05/01/2019	6.80	<0.10	33.8	27.2	29.4	3,887	3,381	9	11.9	6.2	2.3	0.00	0.00	0.00	0.00						80.268	82.577	7.31	13.5	10.0	7.6	7.06	38.4	98.6	80.6					
05/02/2019	6.78	<0.10	31.0	25.2	42.3	3,547	4,840	0	12.2	6.7	2.6	0.00	0.00	0.00	0.00						72.353	84.804	7.49	6.6	10.4	7.0	7.14	40.8	117.4	92.6					
05/03/2019	6.88	<0.10	21.8		17.0	2,514	1,961	1	12.1	6.5	4.0	0.00	0.00	0.00	0.00						71.667	89.813	7.28	3.8	84.0		6.94	5.7	13.8						
05/04/2019	6.79	0.00	8.2	5.6	5.5	915	614	69	12.2	8.6	8.2	0.00	0.00	0.00	0.00						97.208	95.000	8.09	2.8	7.4	5.4	8.20	4.9	12.8	10.4					
05/05/2019	6.55	<0.10	16.8	12.6	15.2	1,824	1,651	2	12.3	6.5	1.6	0.00	0.00	0.00	0.00	0.28	30	1.35	147		90.256	88.649	7.24	3.1	8.6	5.6	7.18	7.5	18.4	14.0					
05/06/2019	6.84	<0.10	8.8	6.8	5.8	897	591	22	12.3	6.5	2.1	0.00	0.00	0.00	0.00	0.18	18	0.21	21		97.302	96.535	7.32	4.1	6.4	5.0	7.10	6.3	8.8	8.0					
05/07/2019	6.85	<0.10	10.2	6.0	6.9	1,023	692	13	12.4	6.5	9.3	0.00	0.00	0.00	0.00	0.20	20	0.14	14		96.462	96.964	7.21	4.5	12.2	8.6	7.07	6.7	12.2	8.4	<10.00	62.00	<0.50	4.70	<0.20
05/08/2019	6.77	<0.10	8.4	5.6	6.7	880	702	23	13.4	6.6	2.9	0.00	0.00	0.00	0.00						96.763	96.585	7.27	5.5	10.4	8.0	7.09	6.1	7.6	4.8					
05/09/2019	6.79	0.10	9.0	5.4	7.5	921	767	10	12.6	6.6	6.6	0.00	0.00	0.00	0.00								7.40	134.0	13.8	9.0	7.23	7.4	14.0	9.4					
05/10/2019	6.82	<0.10	41.4		37.8	4,609	4,209	3	12.9	6.4	3.7	0.00	0.00	0.00	0.00						79.231	91.551	7.32	7.7	31.8		7.00	9.5	38.4						
05/11/2019	6.73	0.00	28.0		21.6	2,884	2,225	0	13.0	6.2	5.6	0.00	0.00	0.00	0.00						74.286	90.968	7.19	9.3	31.4		7.01	5.9	25.0						
05/12/2019	6.60	0.00	41.0	32.0	31.8	4,346	3,371	230	13.1	6.4	3.1	0.00	0.00	0.00	0.00	0.75	80	2.03	215		77.917	81.019	7.21	14.9	45.0	36.2	7.07	5.6	13.0	9.8					
05/13/2019	6.70	<0.10	37.4	28.4	36.9	3,590	3,542	800	13.0	6.6	2.6	0.00	0.00	0.00	0.00	0.67	64	4.31	414		81.823	87.935	7.49	7.4	10.8	8.8	7.30	20.3	254.0	236.2					
05/14/2019	6.93	<0.10	11.2	8.6	6.6	1,035	610	28	12.0	6.4	5.8	0.00	0.00	0.00	0.00	0.25	23	0.24	22		96.796	96.138	7.35	3.8	12.8	10.6	7.17	10.2	32.4	29.2					
05/15/2019	6.84	<0.10	25.8	20.4	20.1	2,210	1,722	2	13.0	7.0	2.2	0.00	0.00	0.00	0.00						90.290	94.028	7.39	6.5	10.4	8.2	7.14	18.6	57.0	46.2					
05/16/2019	6.91	0.10	21.0	15.2	9.6	1,753	801	1	13.2	7.5	5.7	0.00	0.00	0.00	0.00						94.811	93.269	7.31	2.7	5.0	3.4	6.99	19.2	70.0	56.2					
05/17/2019	6.80	1.00	18.0	14.8	20.1	1,497	1,671	22	13.4	6.5	11.7	0.00	0.00	0.00	0.00						90.822	92.373	8.25	2.9	5.4	3.6	8.03	10.8	21.8	17.4					
05/18/2019	6.83	<0.01	10.4	9.8	8.1	806	628	4	13.2	7.4	1.3	0.00	0.00	0.00	0.00						95.475	95.517	8.22	2.5	4.8	5.4	6.96	8.1	14.8	12.0					
05/19/2019	6.67	<0.10	24.4	19.4	16.8	2,055	1,415	0	13.5	7.3	1.7	0.00	0.00	0.00	0.00	0.46	39	1.21	102		88.085	88.807	7.65	3.0	8.8	7.2	7.19	18.8	60.8	51.0					
05/20/2019	6.77	<0.10	38.0	30.0	23.6	3,049	1,893	1	14.3	7.1	3.3	0.00	0.00	0.00	0.00	0.52	42	0.18	14		87.312	87.662	7.62	23.4	76.4	60.4	7.28	5.2	18.0	14.8					
05/21/2019	7.10	0.20	20.6	15.4	12.2	1,443	855	22	14.1	7.1	8.1	0.00	0.00	0.00	0.00	0.78	55	0.19	13		96.453	94.745	7.55	5.3	10.8	8.2	7.16	22.1	72.6	56.2					
05/22/2019	6.99	0.10	13.8	9.6	7.4	1,035	555	43	14.0	7.0	10.0	0.00	0.00	0.00	0.00						97.533	96.480	7.57	3.7	8.2	5.0	7.23	11.7	28.4	22.0					
05/23/2019	7.07	0.30	20.4	14.4	18.6	1,581	1,441	213	14.0	6.0	8.8	0.00	0.00	0.00	0.00						94.876	95.565	7.71	2.9	5.4	3.2	7.31	20.9	47.0	38.2					
05/24/2019	6.98	<0.10	13.0	7.0	3.5	980	264	6500	14.6	6.6	3.6	0.00	0.00	0.00	0.00						97.756	95.255	7.70	2.0	8.8	3.8	7.25	9.9	1167.2	18.6					
05/25/2019	7.05	0.00	12.8	8.6	5.3	880	364	16	14.4	7.4	3.1	0.00	0.00	0.00	0.00						95.954	95.224	7.31	2.0	8.6	5.2	7.46	4.3	14.6	9.2					
05/26/2019	6.90	0.00	7.0	6.8	2.7	501	193	10	14.6	6.9	3.8	0.00	0.00	0.00	0.00	0.04	3	0.27	19		97.891	95.139	7.41	2.1	5.2	5.8	7.15	3.6	1162.4	9.8					
05/27/2019	6.99	0.00	7.2	3.6	3.4	491	232	0	14.8	7.1	3.3	0.00	0.00	0.00	0.00	0.09	6	0.15	10		98.867	97.188	7.44	2.2	4.6	3.0	7.23	5.4	11.2	9.2					
05/28/2019	6.88	<0.10	41.0	31.2	41.4	3,228	3,259	0	14.8	7.0	1.9	0.00	0.00	0.00	0.00	0.85	67	5.13	404		81.842	85.357	7.46	2.2	6.2	3.6	7.22	4.5	144.0	110.0					
05/29/2019	6.96	<0.10	14.2	10.4	9.0	1,017	645	3	14.5	6.9	4.4	0.00	0.00	0.00	0.00						96.386	95.590	7.20	10.7	11.2	8.6	7.05	24.6	56.0	45.4					
05/30/2019	6.87	0.20	27.6	18.8	19.4	1,908	1,341	5	14.5	7.0	6.7	0.00	0.00	0.00	0.00						93.401	92.959	7.31	22.2	49.6	38.2	7.07	22.7	43.8	34.4					
05/31/2019	6.82	<0.10	16.0	12.2	11.0	1,044	717	1	15.4	6.7	9.1	0.00	0.00	0.00	0.00						95.045	98.660	7.29	5.7	12.4	9.4	7.02	9.4	13.8	10.8					
MMAVG																MMAVG		0.51																	
Min.	6.6	0.00	7	4	3	491	193	0	11.9	6.0	1			0.00	0.00	0.04	3	0.14	10		71.67	81.02	7.2	2.0	4.6	3.0	6.9	3.6	7.6	4.8	10.0	62	<0.50	4.7	<0.20
Max.	7.1	1.00	41	32	42	4609	4840	6500	15.4	8.6	12			0.00	0.00	0.85	80	5.13	414		98.87	98.66	8.3	134.0	84.0	60.4	8.2	40.8	1167.2	236.2	10.0	62	<0.50	4.7	<0.20
Total																																			
Average	6.8	<0.12	21	15	16	1882	1521	9	13.4	6.8	5			0.00	0.00	0.42	37	1.28	116		90.17	92.41	7.5	10.4	17.3	10.5	7.2	12.7	118.4	38.0	10.0	62	<0.50	4.7	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
05/01/2019	5,820	5,600	4,990	4,780	12,530	11,590	6.23	6.16	2,672,640	2,707,200	40,651	39,115	8,473	83,034	8,097	82,873	100	102	5,190		4,340		10,400		5.60		4,284,000		59,992						148	
05/02/2019	5,940	5,800	4,850	4,900	13,530	12,670	8.40	8.25	2,286,720	2,520,000	41,489	40,512	5,576	53,893	5,124	54,205	94	93	6,490		5,370		12,100		6.91		4,014,720		75,019						126	
05/03/2019	6,720	6,560	5,530	5,360	13,040	12,560	8.10	7.92	2,779,200	2,725,920	46,938	45,820					76	88	6,580		5,360		12,280		6.97		3,990,240		86,694		5,534	55,551			116	
05/04/2019	6,000	6,030	4,880	4,920	13,570	12,910	7.11	7.32	2,901,600	2,872,800	41,909	42,118					107	119	6,100		4,920		12,850		6.10		4,314,240		70,511		5,478	54,012			133	
05/05/2019	6,150	5,910	5,090	4,810	13,030	13,090	6.83	6.88	2,861,280	2,874,240	42,956	41,280					114	118	6,260		5,020		13,680		6.36		4,363,200		72,361						131	
05/06/2019	6,770	6,850	5,500	5,590	12,670	11,650	6.63	6.74	2,914,560	2,841,120	47,287	47,846	5,713	54,064	5,582	54,103	103	105	7,290		5,830		11,570		6.39		4,291,200		84,267						121	
05/07/2019	6,250	6,130	5,080	4,960	12,480	11,890	6.88	7.02	2,764,800	2,772,000	43,655	42,817					118	126	6,880		5,550		11,160		6.01		4,214,880		79,528		4,655	48,922			135	
05/08/2019	5,870	5,990	4,820	4,920	11,770	11,760	6.38	6.51	2,836,800	2,897,280	41,000	41,839	4,346	44,049	4,303	43,876	145	110	6,390		5,230		10,780		6.30		4,190,400		73,864		4,257	44,408			102	
05/09/2019	7,030	6,930	5,880	5,900	12,670	13,100	6.45	6.85	2,832,480	2,750,400	49,103	48,404	3,021	30,224	3,332	30,649	91	90	7,920		6,590		11,150		5.45		4,210,560		91,549		4,170	44,847			104	
05/10/2019	6,070	5,940	4,850	4,950	11,120	11,450	6.16	6.26	2,780,640	2,756,160	42,397	41,489	4,441	42,024	3,905	44,809	101	104	6,670		5,360		10,860		5.24		4,384,800		77,100		4,197	45,129			127	
05/11/2019	6,260	6,410	5,010	5,140	11,410	10,800	6.20	6.34	2,789,280	2,848,320	43,725	44,772	3,169	33,300			125	117	6,840		5,440		10,200		7.86		4,127,040		79,065						129	
05/12/2019	5,960	6,220	4,900	5,070	11,730	10,680	5.42	5.01	3,036,960	2,905,920	41,629	43,445	935	9,828			101	103	6,720		5,430		10,410		5.85		4,082,400		77,678						121	
05/13/2019	6,200	6,420	5,000	5,220	11,760	11,850	5.88	6.15	2,898,720	2,927,520	43,305	44,842	4,410	45,025	4,230	45,025	113	114	6,620		5,250		11,570		5.80		4,360,320		76,522		4,362	45,201			128	
05/14/2019	6,920	6,860	5,500	5,450	11,190	11,560	7.70	7.80	2,841,120	2,852,640	48,334	47,915	4,123	45,152	4,273	45,047	119	121	7,350		5,850		9,660		9.50		4,299,840		84,960		17,493	39,344			124	
05/15/2019	5,780	5,700	4,600	4,590	12,360	12,030	4.40	3.57	2,944,800	2,887,200	40,372	39,813					121	114	6,620		5,290		11,520		2.67		4,377,600		76,522		4,998	53,888			128	
05/16/2019	6,360	6,450	5,040	5,120	11,240	12,350	6.50	6.75	2,890,080	2,874,240	44,423	45,052					110	109	6,090		4,810		10,170		5.04		4,285,440		70,396		4,152	50,190			131	
05/17/2019	6,650	6,490	6,460	5,310	11,470	11,750	6.33	6.51	2,869,920	2,887,200	46,449	45,331	4,219	45,111	4,365	44,921	120	126	5,720		4,630		11,540		5.40		4,324,320		66,119		1,958	21,922			149	
05/18/2019	6,430	6,640	5,110	5,400	11,370	11,160	6.12	6.35	2,916,000	2,825,280	44,912	46,379	896	12,034	1,042	11,075	115	111	5,030		4,880		10,360		1.43		4,223,520		58,143		1,038	12,011			163	
05/19/2019	6,410	7,170	4,580	6,500	11,810	11,380	6.50	6.70	2,816,640	2,865,600	44,772	50,081	1,171	11,890	1,118	11,778	94	92	6,880		5,670		10,570		5.20		4,245,120		79,528						112	
05/20/2019	5,090	5,660	4,060	3,970	9,100	9,970	5.80	6.20	2,746,080	2,772,000	35,552	39,534	3,000	34,402	3,744	45,030	165	143	5,040		3,680		9,570		4.30		4,104,000		58,259		4,959	58,296			171	
05/21/2019	5,960	6,090	4,840	4,860	10,410	10,120	5.90	6.26	2,802,240	2,960,640	41,629	42,537	3,258	37,152			117	113	6,660		5,210		10,170		6.85		4,253,760		76,985		4,681	52,950			129	
05/22/2019	6,320	6,650	5,110	5,330	10,850	11,150	6.25	6.74	2,820,960	2,900,160	44,144	46,449	6,033	68,898			112	113	6,350		5,060		10,270		4.51		4,315,680		73,401		5,821	67,142			135	
05/23/2019	6,400	6,690	5,210	5,360	10,300	10,850	5.79	6.31	2,836,800	2,849,760	44,702	46,728	2,110	23,888	3,495	37,152	119	117	6,710				9,980		1.66		4,299,840		77,563		2,012	23,928			131	
05/24/2019	6,700	6,550	5,470	5,320	10,910	9,000	6.01	6.25	2,892,960	3,006,720	46,798	45,750	5,638	59,563	1,953	20,488	109	121	6,590		5,340		10,740		4.84		4,331,520		76,175		4,763	52,534			131	
05/25/2019	7,190	6,620	5,800	5,370	11,480	11,070	5.37	6.14	2,933,280	2,884,320	50,220	46,239					117	127	6,880		5,630		10,810		2.85		4,387,680		79,528		1,034	11,466			134	
05/26/2019	6,740	7,020	5,510	5,720	11,210	11,500	6.13	6.42	2,975,040	2,844,000	47,077	49,033					98	88	6,630		5,470		10,970		3.94		4,330,080		76,638		1,049	11,467			119	
05/27/2019	6,530	6,770	5,320	5,540	10,770	10,940	6.30	6.50	2,833,920	2,858,400	45,610	47,287					92	95	4,170		2,920		10,500		4.30		4,233,600		48,202		1,056	11,993			182	
05/28/2019	6,310	6,130	5,080	5,030	10,670	9,560	6.60	6.80	2,897,280	2,808,000	44,074	42,817	5,162	59,805	4,405	59,922	127	132	6,920		5,670		10,160		5.20		4,262,400		79,990						132	
05/29/2019	6,130	6,260	4,940	5,070	11,420	11,340	7.00	7.10	2,088,000	2,177,280	42,817	43,725	4,894	52,440			90	93	6,210		4,980		11,110		5.30		2,790,720		71,783		4,946	52,440			122	
05/30/2019	4,880	4,670	4,060	3,690	12,260	12,350	6.10	7.10	1,473,120	1,463,040	34,086	32,619	1,866	19,308			82	86	5,860		4,990		11,120		6.20		2,144,160		67,737		5,903	61,475			111	
05/31/2019	5,710	5,840	4,760	4,850	11,120	10,520	6.54	2.13	2,160,000	2,160,000	39,883	40,791	5,360	59,760	5,213	59,760	123	110	6,600		5,450		11,030		6.70		2,880,000		76,291		1,670	17,141			126	
MMAVG																																				
Min.	4,880	4,670	4,060	3,690	9,100	9,000	4	2	1,473,120	1,463,040	34,086	32,619	896	9,828	1,042	11,075	76	86	4,170		2,920		9,570		1		2,144,160		48,202		1,034	11,466			102	
Max.	7,190	7,170	6,460	6,500	13,570	13,100	8	8	3,036,960	3,006,720	50,220	50,081	8,473	83,034	8,097	82,873	165	143	7,920		6,590		13,680		10		4,387,680		91,549		17,493	67,142			182	
Total									85,093,920	85,275,360	1,351,898	1,362,379	87,814	924,844	64,181	690,713											126,917,280		2,291,736		100,186	936,257				
Average	6,244	6,292	5,091	5,129	11,653	11,439	6	6	2,744,965	2,750,818	43,610	43,948	3,992	42,038	4,011	43,170	110	110	6,395		5,174		10,944		5		4,094,106		73,927		4,356	40,707			131	

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
06/01/2019	7.55	10.18	4.45	0.00	0.000	0.000	25,607		57.0	14.3	7.34	228	327	14,356	20,590		7.45	3.5	165	130	113	10,390	7,115		
06/02/2019	10.01	30.26	4.52	1.00	0.000	1.460			57.0	14.3	7.50	210	316	17,532	26,381		7.60	3.0	140	114	116	11,688	9,684		
06/03/2019	8.59	11.75	4.80	0.00	0.000	0.000	51,785		45.0	14.8	7.55	321	322	22,997	23,068		7.70	3.5	145	120	129	10,388	9,242		
06/04/2019	8.27	10.81	4.45	0.00	0.000	0.000	60,294		45.0	14.4	7.49	288	414	19,864	28,554		7.55	12.0	294	254	276	20,278	19,036		
06/05/2019	8.08	24.89	4.77	0.70	0.000	0.793	68,957		58.0	14.4	7.47	270	388	18,195	26,146		7.57	13.0	313	262	258	21,092	17,386		
06/06/2019	9.76	10.80	5.10	0.00	0.000	0.000	63,416		68.0	15.0	7.62	213	298	17,338	24,257		7.61	13.0	282	235	234	22,954	19,047		
06/07/2019	7.71	11.13	2.80	0.00	0.000	0.000	51,489		69.0	15.0	7.45	600	206	38,581	13,246		7.78	13.0	302		1140	19,419	73,304		
06/08/2019	7.59	10.44	4.28	0.00	0.000	0.000	22,368		63.0	13.2	7.53	452	354	28,612	22,408		7.43	10.0	224		183	14,179	11,584		
06/09/2019	6.51	11.23	4.32	0.00	0.000	0.000			62.0	13.7	7.58	252	286	13,682	15,528		7.57	10.0	229	199	210	12,433	11,402		
06/10/2019	7.57	18.37	4.47	0.55	0.001	0.111	68,788		54.0	14.8	7.54	248	408	15,657	25,759		7.61	3.5	149	129	177	9,407	11,175		
06/11/2019	9.38	13.42	4.01	0.02	0.000	0.000			69.0	14.8	7.56	183	260	14,316	20,340		7.60	2.5	114	101	161	8,918	12,595		
06/12/2019	5.79	10.91	4.09	0.00	0.000	0.000	101,114		61.0	14.9	7.50	282	380	13,617	18,350		7.57	3.5	142	117	216	6,857	10,430		
06/13/2019	10.05	15.08	4.22	0.40	0.000	0.252	2,968		52.0	12.8	7.62	270	392	22,631	32,856		7.54	5.1	196	158	219	16,428	18,356		
06/14/2019	7.76	13.11	4.09	0.00	0.000	0.000	93,481		59.0	12.3	7.51	161	462	10,420	29,900		7.35	4.5	193		213	12,491	13,785		
06/15/2019	7.34	10.84	4.03	0.00	0.000	0.000	27,105		60.0	16.0	7.50	156	296	9,550	18,120		7.31	6.0	216		164	13,223	10,039		
06/16/2019	9.42	19.12	4.11	0.90	0.000	0.858			65.0	16.3	7.62	227	292	17,834	22,940		7.59	5.5	183	153	204	14,377	16,027		
06/17/2019	7.98	11.14	4.20	0.00	0.000	0.000	74,211		66.0	16.1	7.37	368	500	24,492	33,277		7.40	4.5	209	173	240	13,910	15,973		
06/18/2019	7.88	11.32	4.76	0.03	0.000	0.000	52,116		67.0	16.3	7.41	282	420	18,533	27,602		7.39	7.0	251	204	270	16,496	17,744		
06/19/2019	5.35	11.28	4.13	0.20	0.000	0.000	80,105		69.0	16.4	7.49	294	446	13,118	19,900		7.39	19.0	316	350	360	14,100	16,063		
06/20/2019	9.06	18.55	4.81	0.60	0.000	0.078	3,450		66.0	17.1	7.42	324	450	24,482	34,002		7.20	13.0	364	302	326	27,504	24,633		
06/21/2019	9.45	14.05	4.24	0.00	0.000	0.000	22,460		58.0	17.3	7.40	294	294	23,171	23,171		6.98	120.0	1512	1233	720	119,165	56,745		
06/22/2019	7.44	11.53	4.45	0.00	0.000	0.000	10,648		64.0	16.6	7.50	216	306	13,403	18,987		7.11	60.0	675	546	555	41,883	34,438		
06/23/2019	7.13	9.45	4.59	0.00	0.000	0.000	4,791		63.0	16.4	7.52	228	292	13,558	17,364		7.57	25.0	339	278	252	20,158	14,985		
06/24/2019	7.04	11.27	4.23	0.00	0.000	0.000	42,515		66.0	16.6	7.54	233	438	13,680	25,717		7.51	12.0	232	199	183	13,622	10,745		
06/25/2019	8.69	25.05	4.91	0.80	0.000	0.306	28,763		67.0	17.1	7.36	204	430	14,785	31,164		7.47	7.0	205	170	176	14,857	12,756		
06/26/2019	7.51	11.29	4.01	0.00	0.000	0.000	78,532		66.0	17.2	7.60	260	432	16,285	27,058		7.69	4.1	184	158	179	11,525	11,211		
06/27/2019	7.25	11.39	4.33	0.00	0.000	0.000	120,839		67.0	17.7	7.58	330	476	19,953	28,781		7.60	9.0	266	224	233	16,084	14,088		
06/28/2019	6.94	10.66	3.91	0.00	0.000	0.000	98,255		69.0	18.1	7.42	210	488	12,155	28,245		7.61	10.0	454	369	273	26,277	15,801		
06/29/2019	7.43	23.87	3.91	0.30	0.000	0.194	20,873		74.0	17.5	7.12	173	316	10,720	19,581		7.70	12.0	362	301	213	22,432	13,199		
06/30/2019	6.95	11.96	3.85	0.30	0.000	0.000			70.0	17.4	7.49	252	260	14,607	15,070		7.33	6.0	167	140	194	9,680	11,245		
MMAVG	10.16																								
Min.	5.4	9.5	2.8	0.0		0.000	2,968		45.0	12.3	7.12	156	206	9,550	13,246		6.98	2.5	114	101	113	6857	7115		
Max.	10.1	30.3	5.1	1.0		1.460	120,839		74.0	18.1	7.62	600	500	38,581	34,002		7.78	120.0	1512	1233	1140	119165	73304		
Total	237.5	425.2	128.8	5.8		4.052	1,274,930																		
Average	7.9	14.2	4.3	0.2		0.135	50,997		62.53	15.63	7.49	268	365	17604	23945		7.49	14.0	294	255	273	19740	17994		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
06/01/2019	6.89	0.10	9.6	6.6	5.4	604	340	0	16.4	6.8	1.5	0.00	0.00	0.00	0.00						97.632	97.064	7.22	5.1	9.0	6.2	7.00	5.4	15.2	10.8					
06/02/2019	7.02	0.10	89.0	64.0	37.8	7,430	3,156	0	16.0	6.9	1.4	0.00	0.00	0.00	0.00	1.40	117	1.95	163		82.000	71.835	7.49	4.9	6.2	4.8	7.14	44.7	205.8	169.0					
06/03/2019	6.91	0.20	9.6	7.6	5.4	688	387	3	16.0	6.7	3.8	0.00	0.00	0.00	0.00	0.12	9	0.21	15		98.318	97.019	7.59	3.0	8.4	6.8	7.19	14.7	54.4	49.2					
06/04/2019	7.06	<0.10	15.0	11.4	7.8	1,035	538	5	15.3	7.0	6.1	0.00	0.00	0.00	0.00	0.23	16	0.16	11		97.292	96.377	7.51	4.1	9.0	7.2	7.19	21.8	76.6	64.0					
06/05/2019	6.96	0.10	10.0	6.2	7.9	674	532	7	16.1	6.8	6.8	0.00	0.00	0.00	0.00						97.074	97.423	7.32	8.1	15.6	10.4	7.03	73.2	297.0	232.0					
06/06/2019	6.96	1.50	15.6	10.8	11.9	1,270	969	40	16.7	6.5	25.2	0.00	0.00	0.00	0.00						94.413	94.765	7.30	7.7	12.8	10.2	7.18	21.3	45.4	36.6					
06/07/2019	7.04	1.30	34.4		6.9	2,212	444	110	16.5	5.7	9.9	0.00	0.00	0.00	0.00						98.850	83.301	7.38	21.3	56.8		7.08	12.3	23.6						
06/08/2019	6.74	<0.10	3.4		2.8	215	177	15	16.3	7.2	4.5	0.00	0.00	0.00	0.00						99.381	99.040	7.33	5.4	8.6		7.08	4.8	9.8						
06/09/2019	6.93	<0.10	17.8	12.8	10.7	966	581	1	15.9	7.5	2.3	0.00	0.00	0.00	0.00	0.26	14	0.11	6		95.754	93.776	7.36	14.4	31.4	25.6	7.22	7.1	14.8	12.4					
06/10/2019	6.96	0.10	14.8	10.8	9.6	934	606	3	16.4	7.3	9.3	0.00	0.00	0.00	0.00	0.25	16	0.21	13		96.129	96.373	7.34	6.8	12.8	10.4	7.12	14.1	36.6	31.0					
06/11/2019	7.07	1.50	22.4	18.4	11.0	1,752	861	9	17.2	6.8	11.5	0.00	0.00	0.00	0.00	0.48	38	0.18	14		93.989	91.385	7.46	7.0	16.0	13.6	7.25	18.6	60.4	49.6	37.00	100.00	0.69	16.00	<0.20
06/12/2019	7.06	0.10	12.0	8.8	8.4	579	406	9	17.2	7.0	16.5	0.00	0.00	0.00	0.00						97.021	96.842	7.33	8.3	13.6	10.8	7.25	49.0	11.4	8.2					
06/13/2019	7.04	<0.10	26.4	18.4	24.6	2,213	2,062	3	16.8	6.6	6.5	0.00	0.00	0.00	0.00						90.889	93.265	7.47	15.5	16.2	14.0	7.14	11.8	18.0	15.4					
06/14/2019	6.89	0.10	39.8		18.9	2,576	1,223	740	16.8	5.3	7.2	0.00	0.00	0.00	0.00						88.261	91.385	7.42	34.2	170.8		7.08	9.8	20.8						
06/15/2019	6.94	0.01	33.6		16.5	2,057	1,010	0	16.8	7.5	3.6	0.00	0.00	0.00	0.00						89.423	88.649	7.52	22.5	79.4		7.10	6.3	15.6						
06/16/2019	6.89	0.00	102.0	75.0	37.8	8,013	2,970	1	17.3	7.3	4.3	0.00	0.00	0.00	0.00	1.71	134	1.73	136		83.348	65.068	7.40	32.4	108.0	78.0	7.18	19.2	56.2	46.6					
06/17/2019	6.99	0.10	13.6	8.6	6.7	905	446	3	17.7	7.2	15.1	0.00	0.00	0.00	0.00	0.30	20	0.28	19		98.179	97.280	7.34	8.1	19.8	16.4	7.12	9.9	18.4	16.2					
06/18/2019	7.02	0.10	9.2	6.8	7.4	605	486	8	17.7	6.9	14.4	0.00	0.00	0.00	0.00	0.27	18	0.27	18		97.376	97.810	7.09	7.8	12.6	9.2	7.07	7.0	13.6	10.0					
06/19/2019	7.06	<0.10	32.0	24.2	15.2	1,428	678	1	17.8	6.5	7.2	0.00	0.00	0.00	0.00						94.830	92.825	7.47	7.1	13.4	10.6	7.09	7.8	29.8	21.0					
06/20/2019	6.89	2.00	33.2	27.2	20.4	2,509	1,541	11	18.8	5.1	19.0	0.00	0.00	0.00	0.00						93.704	92.622	7.27	6.8	11.4	7.6	6.90	9.7	13.8	10.6					
06/21/2019	6.83	0.10	12.2	9.8	9.5	962	749	1	18.5	6.3	8.8	0.00	0.00	0.00	0.00						96.769	95.850	8.20	9.0	12.8	11.2	8.25	4.7	6.2	5.8					
06/22/2019	7.03	<0.10	8.6	8.2	13.1	534	813	7	18.0	7.1	4.4	0.00	0.00	0.00	0.00						93.935	97.190	8.26	35.4	22.0	17.4	8.07	4.5	8.2	6.8					
06/23/2019	7.00	<0.10	9.2	6.6	10.8	547	642	2	17.4	7.0	5.8	0.00	0.00	0.00	0.00	0.27	16	4.26	253		95.263	96.849	7.80	25.2	17.8	15.8	7.12	4.5	9.6	8.2					
06/24/2019	6.90	<0.10	25.0	18.2	14.3	1,468	840	3	18.6	6.2	4.7	0.00	0.00	0.00	0.00	0.40	23	1.74	102		93.863	94.292	7.45	81.6	561.0	452.0	7.10	9.3	10.6	9.0					
06/25/2019	6.99	0.20	41.2	32.8	24.6	2,986	1,783	21	18.8	6.9	8.2	0.00	0.00	0.00	0.00	0.81	59	2.15	156		87.941	90.419	7.51	12.8	31.0	23.2	7.01	9.2	14.6	12.8					
06/26/2019	6.99	0.20	13.0	9.6	10.2	814	639	0	18.7	6.7	8.3	0.00	0.00	0.00	0.00						96.077	96.991	7.80	6.3	15.2	12.6	7.10	8.1	13.0	10.4					
06/27/2019	7.04	0.10	15.6	12.2	17.1	943	1,034	1	19.3	65.0	7.8	0.00	0.00	0.00	0.00						94.818	96.723	7.79	7.7	14.8	13.0	7.16	20.1	14.8	12.8					
06/28/2019	6.90	0.10	13.0	10.4	11.4	752	660	145	19.4	5.1	5.0	0.00	0.00	0.00	0.00						94.571	97.336	7.70	6.6	14.2	9.8	7.13	11.1	19.2	15.6					
06/29/2019	7.10	0.10	91.0	79.0	9.0	5,639	558	35	19.8	7.3	4.7	0.00	0.00	0.00	0.00						94.798	71.203	7.72	5.5	104.0	52.0	7.15	8.7	102.0	90.0					
06/30/2019	7.12	0.10	7.0	5.4	4.8	406	278	0	19.9	7.2	5.1	0.00	0.00	0.00	0.00	0.20	12	0.22	13		98.095	97.308	7.80	5.0	9.4	6.2	7.05	5.3	11.4	8.6					
MMAVG														MMAVG		0.51																			
Min.	6.7	0.00	3	5	3	215	177	0	15.3	5.1	1			0.00	0.00	0.12	9	0.11	6		82.00	65.07	7.1	3.0	6.2	4.8	6.9	4.5	6.2	5.8	37.0	100	0.69	16.0	<0.20
Max.	7.1	2.00	102	79	38	8013	3156	740	19.9	65.0	25			0.00	0.00	1.71	134	4.26	253		99.38	99.04	8.3	81.6	561.0	452.0	8.3	73.2	297.0	232.0	37.0	100	0.69	16.0	<0.20
Total																																			
Average	7.0	<0.30	26	20	13	1791	914	5	17.5	8.6	8			0.00	0.00	0.52	38	1.04	71		94.33	92.28	7.5	14.2	47.8	32.9	7.2	15.1	41.6	37.0	37.0	100	0.69	16.0	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
06/01/2019	5,690	5,480	3,170	3,940	10,250	9,750	5.64	6.37	2,160,000	2,191,680	39,743	38,276					116	120	5,990		3,420		11,630		7.17		2,208,960		69,240						144	
06/02/2019	5,680	6,690	5,600	5,200	10,540	10,750	4.68	5.14	2,865,600	2,882,880	39,673	46,728					134	114	6,560		5,240		12,900		7.13		2,122,560		75,829						131	
06/03/2019	6,620	6,590	5,340	5,310	10,700	10,820	6.14	6.40	2,880,000	2,880,000	46,239	46,030	5,328	60,153	5,393	59,961	121	120	5,800		4,700		12,270		7.29		2,880,000		86,694						141	
06/04/2019	4,840	5,780	4,120	5,160	10,220	10,410	6.00	7.00	1,671,840	1,645,920	33,806	40,372	1,301	14,533	1,295	14,956	130	107	6,150		4,010		12,550		7.90	0.00	2,088,000		71,089		1,559	15,029			138	
06/05/2019	5,630	6,010	4,600	4,890	11,950	11,430	5.35	5.99	1,728,000	1,728,000	39,324	41,978	2,419	24,275	2,301	24,143	117	108	6,350		5,100		12,510		7.28	6.64	2,160,000		73,401		2,451	23,966			124	
06/06/2019	4,840	5,010	3,950	4,000	11,300	10,670	6.22	6.60	1,742,400	1,722,240	33,806	34,994	2,795	29,867	2,820	30,269	120	124	4,520		3,650		11,780		7.35		2,167,200		52,248		2,960	29,519			164	
06/07/2019	5,460	5,710	4,420	4,570	12,240	11,660	5.17	5.81	1,775,520	1,787,040	38,137	39,883	3,078	30,141	2,736	30,098	115	114	5,910		4,680		12,210		6.01		2,121,120		68,315		4,385	43,060			135	
06/08/2019	5,570	5,730	4,490	4,580	11,580	11,580	4.76	5.43	1,782,720	1,728,000	38,905	40,023	2,370	24,003	2,306	23,881	108	107	7,080		5,560		11,290		5.86		2,181,600		81,839		5,567	57,747			126	
06/09/2019	5,800	5,880	4,710	4,770	12,460	11,400	5.15	5.75	1,738,080	1,787,040	40,512	41,070	2,416	24,097	2,307	24,072	112	119	6,370		5,070		12,270		6.78		2,155,680		73,632		2,455	23,986			133	
06/10/2019	5,860	5,850	4,780	4,740	11,190	11,250	5.21	5.73	1,745,280	1,771,200	40,931	40,861	2,965	30,065	2,832	29,981	116	121	5,990		4,810		12,300		6.59		2,059,200		69,240		3,438	33,000			144	
06/11/2019	4,990	5,230	3,990	4,190	10,680	10,170	5.77	6.18	1,707,840	1,725,120	34,854	36,530	1,660	17,038			100	105	4,310		3,450		12,090		6.80		2,160,000		49,820		10,731	107,378			121	
06/12/2019	5,500	5,750	4,470	4,710	11,170	11,220	4.99	5.68	1,699,200	1,764,000	38,416	40,162					95	96	6,600		5,420		11,180		4.90		2,844,000		76,291		3,993	43,408			124	
06/13/2019	5,510	6,170	4,500	5,070	11,800	11,820	4.48	5.57	1,800,000		38,486	43,096	3,538	35,674	3,484	35,073	73	73	6,390		5,210		11,390		4.26		2,124,000		73,864						102	
06/14/2019	6,140	6,330	4,430	5,070	10,900	10,570	4.20	5.02	2,160,000	2,160,000	42,886	44,213	3,894	40,800	3,969	40,800	95	93	5,930		4,710		11,850		2.23		2,196,000		68,546						127	
06/15/2019	6,250	6,280	4,940	4,950	10,340	10,450	4.78	5.24	2,590,560	2,599,200	43,655	43,864	2,995	33,243	3,940	41,385	85	88	5,960		4,680		11,400		3.08		2,175,840		68,893		2,264	23,811			117	
06/16/2019	6,670	6,550	5,270	5,170	10,470	10,760	4.81	5.21	2,590,560	2,592,000	46,588	45,750	2,039	23,495	2,141	24,209	86	89	6,350		5,010		11,960		6.83		2,161,440		73,401		2,371	23,774			117	
06/17/2019	6,190	6,450	5,250	5,140	11,250	12,700	4.28	4.98	2,581,920	2,589,120	43,236	45,052					110	104	5,400		4,010		12,560		2.98		2,174,400		62,420		5,347	52,400			148	
06/18/2019	6,110	6,270	4,980	5,110	11,860	12,550	3.83	4.41	2,170,080	2,162,880	42,677	43,794	4,057	41,952	4,022	41,952	111	112	5,710		4,630		11,290		2.49		2,126,880		66,003		2,018	19,338			137	
06/19/2019	5,740	5,860	4,630	4,750	11,490	11,260	3.76	4.41	2,161,440	2,168,640	40,092	40,931	5,373	56,901	5,309	56,114	99	106	5,750		4,630		11,890		4.14		2,158,560		66,466						134	
06/20/2019	7,290	7,570	5,990	6,150	11,620	11,470	3.81	4.32	2,168,640	2,161,440	50,919	52,875	4,961	57,637	5,581	58,139	103	98	3,840	3,040	3,160	2,570	11,000	15,160	1.60	5.60	2,157,120	2,160,000	44,387	35,140					96	99
06/21/2019	6,180	6,650			9,630	9,620	3.66	4.50	1,730,880	1,728,000	43,166	46,449	814	10,152	1,648	17,169	110	107	5,220	4,260			9,890	8,450	2.13	4.65	2,165,760	2,174,400	60,339	49,242					134	120
06/22/2019		2,510		2,130		2,220		5.44		511,200		17,532			2,540	56,948		68	6,320	5,110	5,180	4,130	13,100	12,270	3.15	5.20	1,435,680	1,463,040	73,054	59,068					114	98
06/23/2019		3,440		2,840		12,520		1.76		1,728,000		24,028			2,825	27,054		87	6,560	4,790	5,240	3,900	13,440	11,840	1.13	5.32	1,392,480	1,493,280	75,829	55,369					99	94
06/24/2019		5,610		4,520		12,060		0.55		1,726,560		39,184			6,005	55,449		134	6,110	4,080	4,960	3,290	13,190	15,580	3.79	6.11	1,412,640	1,440,000	70,627	47,162	799	7,263			110	98
06/25/2019		8,910		7,110		11,730		1.27		2,157,120		62,234			3,825	34,860		95	5,420	4,170	4,380	3,480	14,130	12,240	2.69	5.30	1,324,800	1,569,600	62,651	48,202	7,672	65,100			120	101
06/26/2019		6,020		4,870		10,990		2.84		2,160,000		42,048			7,163	72,110		116	5,450	4,020	4,450	3,370	12,970	14,320	1.51	4.72	1,336,320	1,504,800	62,998	46,468	2,206	18,908			128	112
06/27/2019		8,480		6,860		10,820		3.24		2,160,000		59,231			3,233	35,824		96	5,870	4,750	4,860	3,940	14,150	14,930	1.17	3.57	1,408,320	2,197,440	67,853	54,906	2,615	22,026			90	78
06/28/2019		8,080		6,420		11,040		3.36		2,157,120		56,437			8,757	72,112		100	5,510	4,720	4,430	3,930	13,630	15,830	2.03	1.48	1,438,560	1,548,000	63,691	54,560	1,975	16,540	2,540	19,152	102	98
06/29/2019		8,280		6,540		10,760		3.34		2,154,240		57,834			2,947	34,528		73	5,870	4,630	4,820	3,830	14,190	16,450	2.92	6.53	1,450,080	1,395,360	67,853	53,519			2,566	19,251	78	71
06/30/2019		8,260		6,480		10,430		4.07		2,155,680		57,694			5,038	57,560		65	6,570	4,940	5,300	3,980	14,760	16,530			1,395,360	1,447,200	75,944	57,103					76	73
MMAVG																																				
Min.	4,840	2,510	3,170	2,130	9,630	2,220	4	1	1,671,840	511,200	33,806	17,532	814	10,152	1,295	14,956	73	65	3,840	3,040	3,160	2,570	9,890	8,450	1	0	1,324,800	1,395,360	44,387	35,140	799	7,263	2,540	19,152	76	71
Max.	7,290	8,910	5,990	7,110	12,460	12,700	6	7	2,880,000	2,882,880	50,919	62,234	5,373	60,153	8,757	72,112	134	134	7,080	5,110	5,560	4,130	14,760	16,530	8	7	2,880,000	2,197,440	81,839	59,068	10,731	107,378	2,566	19,251	164	120
Total									43,450,560	58,684,320	856,051	1,309,153	52,003	554,026	94,417	998,647											59,182,560	18,393,120	2,032,807	560,739	64,806	626,253	5,106	38,403		
Average	5,836	6,248	4,682	5,008	11,126	10,829	5	5	2,069,074	2,023,597	40,764	43,638	3,059	32,590	3,777	39,946	107	102	5,862	4,410	4,647	3,642	12,392	13,964	4	5	1,972,752	1,672,102	67,760	50,976	3,600	34,792	2,553	19,202	122	95

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
07/01/2019	6.85	11.96	3.85	0.00	0.000	0.000	56,426		78.0	18.2	7.46	333	432	19,024	24,680		7.33	12.0	310	250	347	17,710	19,824		
07/02/2019	6.63	9.97	3.62	0.00	0.000	0.000	96,849		77.0	18.9	7.57	435	402	24,053	22,228		7.37	20.0	509	414	399	28,145	22,062		
07/03/2019	6.32	9.24	3.23	0.00	0.000	0.000	32,140		86.0	19.5	6.89	276	508	14,548	26,776		7.72	21.0	356	302	222	18,764	11,701		
07/04/2019	5.92	8.84	3.17	0.00	0.000	0.000	21,338		70.0	18.1	7.57	402	294	19,848	14,516		7.46	23.0	428	357	339	21,132	16,737		
07/05/2019	6.29	9.92	3.18	0.00	0.000	0.000	35,910		87.0	18.2	7.39	339	414	17,783	21,718		7.45	15.0	389	324	276	20,406	14,479		
07/06/2019	9.92	21.67	3.07	0.21	0.000	0.129	3,888		81.0	16.9	7.48	105	294	8,687	24,323		7.46	20.0	410	360	141	33,920	11,665		
07/07/2019	5.98	9.03	3.44	0.00	0.000	0.000	3,735		71.0	16.8	7.60	240	248	11,970	12,369		7.70	8.0	186	164	216	9,276	10,773		
07/08/2019	5.97	8.96	3.23	0.00	0.000	0.000	35,374		66.0	16.4	7.64	336	402	16,729	20,015		7.85	5.0	164	148	200	8,166	9,958		
07/09/2019	5.87	8.85	2.67	0.00	0.000	0.000	51,449		61.0	16.8	7.73	377	524	18,456	25,653		7.70	8.0	194	160	282	9,497	13,806		
07/10/2019	5.74	9.17	2.67	0.00	0.000	0.000	73,667		70.0	16.7	7.73	266	570	12,734	27,287		7.53	20.0	491	417	360	23,505	17,234		
07/11/2019	6.13	16.46	3.36	0.60	0.000	0.000	46,075		69.0	16.4	7.82	422	746	21,574	38,139		7.56	18.0	494	434	371	25,255	18,967		
07/12/2019	6.60	9.62	2.97	0.72	0.000	0.000	26,591		69.0	16.9	7.69	384	460	21,137	25,320		7.33	27.0	432	416	399	23,779	21,963		
07/13/2019	5.65	8.47	2.97	0.00	0.000	0.000	12,539		71.0	19.5	7.38	113	342	5,325	16,115		7.36	20.0	389	334	335	18,330	15,786		
07/14/2019	4.28	9.47	2.65	0.00	0.000	0.000	4,177		71.0	19.7	7.84	216	354	7,710	12,636		7.74	10.0	333	277	252	11,887	8,995		
07/15/2019	4.38	7.90	2.88	0.00	0.000	0.000	54,416		69.0	19.1	7.75	324	522	11,835	19,068		7.69	4.5	216	180	240	7,890	8,767		
07/16/2019	4.34	7.91	3.59	0.00	0.000	0.000	47,676		68.0	19.8	7.67	335	548	12,126	19,835		7.42	12.0	356	292	330	12,886	11,945		
07/17/2019	4.70	10.31	3.60	0.10	0.000	0.000	39,927		70.0	19.9	7.63	413	474	16,189	18,580		7.48	6.0	267	228	258	10,466	10,113		
07/18/2019	5.69	8.79	3.00	0.00	0.000	0.000	36,250		71.0	21.0	7.61	398	374	18,887	17,748		7.63	3.0	148	125	195	7,023	9,254		
07/19/2019	5.42	8.66	2.35	0.00	0.000	0.000	49,988		82.0	19.8	7.58	150	558	6,780	25,223		7.33	7.0	271		225	12,250	10,171		
07/20/2019	5.29	9.29	2.45	0.00	0.000	0.000	6,845		81.0	19.0							7.34	7.0	250		222	11,030	9,794		
07/21/2019	5.30	8.17	2.54	0.00	0.000	0.000			79.0	19.5	7.64	234	356	10,343	15,736		7.68	5.5	208	167	190	9,194	8,398		
07/22/2019	9.51	29.57	3.79	2.30	0.000	3.950	34,790		72.0	19.5	7.77	276	470	21,890	37,277		7.76	5.5	158	129	140	12,532	11,104		
07/23/2019	12.86	29.36	4.48	0.20	0.000	0.000	19,781		63.0	19.1	7.62	183	252	19,627	27,028		7.76	4.0	151	116	128	16,195	13,728		
07/24/2019	7.60	10.55	3.74	0.00	0.000	0.000	93,847		62.0	18.9	7.68	320	410	20,283	25,987		7.74	5.0	155	128	207	9,825	13,120		
07/25/2019	6.87	9.39	3.69	0.20	0.000	0.000	97,038		62.0	19.0	7.60	320	486	18,335	27,846		7.76	2.3	96	82	188	5,500	10,772		
07/26/2019	6.39	10.81	2.56	0.00	0.000	0.000	82,139		61.0	19.3	7.42	306	404	16,308	21,530		7.47	7.5	196	163	224	10,445	11,938		
07/27/2019	6.39	9.80	3.33	0.00	0.000	0.000	14,670		68.0	20.2	7.55	192	286	10,232	15,242		7.77		278	220	182	14,815	9,699		
07/28/2019	6.00	9.48	3.14	0.00	0.000	0.000	6,368		70.0	20.3	7.60	242	198	12,110	9,908		7.50	5.0	178	147	176	8,907	8,807		
07/29/2019	6.09	8.19	3.28	0.00	0.000	0.000	87,555		86.0	21.0	7.50	371	432	18,843	21,942		7.49	0.5	111	96	165	5,638	8,380		
07/30/2019	6.02	8.07	2.74	0.00	0.000	0.000	54,958		92.0	21.6	7.52	390	576	19,581	28,919		7.34	1.0	146	116	182	7,330	9,138		
07/31/2019	6.25	10.53	2.96	0.10	0.000	0.000	72,057		85.0	21.0	7.57	482	596	25,124	31,067		7.15	3.0	195	161	333	10,164	17,358		
MMAVG	10.18																								
Min.	4.3	7.9	2.4	0.0		0.000	3,735		61.0	16.4	6.89	105	198	5,325	9,908		7.15	0.5	96	82	128	5500	8380		
Max.	12.9	29.6	4.5	2.3		3.950	97,038		92.0	21.6	7.84	482	746	25,124	38,139		7.85	27.0	509	434	399	33920	22062		
Total	197.3	348.4	98.2	4.4		4.079	1,298,463																		
Average	6.4	11.2	3.2	0.1		0.132	43,282		73.16	18.94	7.58	306	431	15936	22490		7.54	10.2	273	231	249	14254	12788		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																			PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
07/01/2019	6.81	<0.10	9.4	6.2	5.5	537	314	5	19.4	7.1	2.3	0.00	0.00	0.00	0.00	0.21	12	0.17	10		98.348	97.824	7.80	5.1	8.8	6.6	6.92	5.7	11.4	8.6					
07/02/2019	6.78	<0.10	9.0	7.2	8.4	498	464	9	19.8	6.5	3.1	0.00	0.00	0.00	0.00	0.24	13	0.41	23		98.069	97.761	7.72	4.7	9.8	7.4	6.86	8.1	14.2	11.6					
07/03/2019	6.77	<0.10	15.8	13.6	10.8	833	569	3	20.1	6.3	3.1	0.00	0.00	0.00	0.00						96.087	96.890	7.73	4.0	9.4	7.8	7.20	19.5	42.2	35.0					
07/04/2019	6.84	0.00	11.4	9.2	8.1	563	400	67	20.0	6.2	5.0	0.00	0.00	0.00	0.00						97.985	96.122	7.71	3.8	9.4	8.2	6.91	11.6	26.2	20.6					
07/05/2019	6.79	0.10	13.8	11.6	7.9	724	414	2	20.5	6.1	3.3	0.00	0.00	0.00	0.00						97.670	96.667	7.72	4.3	12.4	9.6	7.01	11.2	20.4	16.0					
07/06/2019	6.93	0.01	11.2	9.0	3.1	927	256	11	21.0	7.1	1.4	0.00	0.00	0.00	0.00						97.048	96.190	7.63	2.0	11.4	10.4	6.90	3.0	26.2	27.2					
07/07/2019	6.96	0.10	12.4	9.0	10.4	618	519	16	21.4	6.8	1.2	0.00	0.00	0.00	0.00	0.49	24	1.54	77		95.667	95.000	7.67	5.3	11.4	9.4	7.03	9.6	19.2	15.8					
07/08/2019	6.81	0.10	11.6	9.2	7.7	578	383	2419	20.7	6.2	4.6	0.00	0.00	0.00	0.00	0.61	30	0.71	35		97.708	97.114	7.60	5.7	14.4	11.2	6.98	11.4	26.4	21.4					
07/09/2019	6.99	0.30	13.6	9.0	7.4	666	362	3	20.7	6.1	22.8	0.00	0.00	0.00	0.00	0.61	30	0.03	1		98.037	97.405	7.60	7.2	31.4	20.8	6.96	6.4	13.6	11.4					
07/10/2019	7.03	0.20	12.8	9.2	5.2	613	249	2	20.9	6.2	11.3	0.00	0.00	0.00	0.00						98.045	97.754	7.62	4.6	22.4	15.4	7.08	13.1	21.4	18.4					
07/11/2019	7.14	0.10	14.8	11.2	12.2	757	624	7	21.1	6.3	6.1	0.00	0.00	0.00	0.00						97.109	98.016	7.75	5.9	16.8	13.2	7.05	19.1	28.6	23.4					
07/12/2019	6.93	0.60	9.0	8.2	8.4	495	462	961	21.3	5.1	11.9	0.00	0.00	0.00	0.00						97.813	98.043	7.33	4.2	11.8	8.4	7.06	9.8	10.6	9.8					
07/13/2019	7.07	<0.10	10.0	10.4	5.5	471	259	6	21.9	7.0	3.7	0.00	0.00	0.00	0.00						95.133	97.076	7.36	3.9	22.2	15.4	7.17	9.6	15.8	14.2					
07/14/2019	7.12	1.00	14.6	11.8	9.5	521	339	0	22.8	6.6	3.6	0.00	0.00	0.00	0.00	0.51	18	0.63	22		95.602	95.876	8.02	5.5	17.2	12.0	7.34	12.2	23.6	19.0					
07/15/2019	7.25	0.20	16.6	10.2	8.1	606	296	2	21.7	6.1	6.1	0.00	0.00	0.00	0.00	0.63	23	0.54	20		97.500	96.820	7.96	5.8	32.6	19.6	7.34	9.6	23.6	18.2					
07/16/2019	7.27	0.10	12.4	9.4	9.8	449	355	2	21.5	6.3	18.7	0.00	0.00	0.00	0.00	0.58	21	0.49	18		97.075	97.737	8.05	4.4	29.4	16.8	7.44	8.4	16.6	13.0					
07/17/2019	7.24	0.10	14.2	10.4	7.4	557	290	51	21.6	6.4	12.3	0.00	0.00	0.00	0.00						98.208	97.004	7.90	4.8	38.2	25.2	7.18	10.5	17.8	15.0	56.00	85.00	0.52	28.00	<0.20
07/18/2019	7.07	0.10	8.6	8.2	7.8	408	370	12	22.3	5.8	3.3	0.00	0.00	0.00	0.00						98.040	97.701	7.93	4.0	18.6	12.4	7.12	15.3	20.6	17.0					
07/19/2019	7.03	0.10	12.6		6.4	570	289	14	21.8	5.8	3.6	0.00	0.00	0.00	0.00						95.733	97.742	7.98	2.9	13.4		7.11	9.9	26.2						
07/20/2019	6.98	0.10	10.0		4.6	441	203	46	22.6	6.7	3.4	0.00	0.00	0.00	0.00								7.87	2.9	11.6		6.95	8.9	28.4						
07/21/2019	6.86	0.10	15.0	8.4	7.1	663	314	0	22.4	5.9	3.9	0.00	0.00	0.00	0.00	0.69	30	0.74	33		96.966	95.787	8.05	2.9	10.6	6.6	7.16	16.8	59.2	44.8					
07/22/2019	7.07	0.10	51.2	38.2	44.4	4,061	3,522	3	23.0	5.6	4.4	0.00	0.00	0.00	0.00	1.21	96	4.25	337		83.913	89.106	8.00	4.7	12.4	8.6	7.12	16.4	54.2	41.4					
07/23/2019	7.12	0.30	13.4	8.4	9.8	1,437	1,051	2419	20.6	5.8	19.9	0.00	0.00	0.00	0.00	0.58	62	1.31	141		94.645	94.683	7.97	2.9	11.4	8.4	7.03	8.1	21.6	17.8					
07/24/2019	7.04	0.10	9.2	5.6	4.3	583	273	11	21.2	6.2	5.8	0.00	0.00	0.00	0.00						98.656	97.756	7.93	3.7	14.4	10.6	7.22	6.9	18.4	13.8					
07/25/2019	7.36	0.10	9.8	6.4	5.5	561	315	14	21.3	6.4	5.3	0.00	0.00	0.00	0.00						98.281	97.984	7.98	5.1	18.2	13.4	7.36	7.8	16.2	11.0				39.00	
07/26/2019	7.03	0.10	9.0	5.2	5.5	480	293	44	21.7	5.2	4.3	0.00	0.00	0.00	0.00						98.203	97.772	8.35	5.9	20.2	13.8	8.19	5.8	14.8	12.6					
07/27/2019	7.11	0.10	6.6	3.0	3.8	352	203	17	21.9	7.1	3.3	0.00	0.00	0.00	0.00						98.021	97.692	8.34	4.4	19.0	15.2	8.02	5.2	15.4	11.6					
07/28/2019	7.14	0.10	7.4	6.0	4.5	370	225	4	21.9	6.5	2.7	0.00	0.00	0.00	0.00	0.38	19	0.18	9		98.140	96.263	7.89	4.9	17.2	14.0	7.16	6.2	13.4	11.8					
07/29/2019	6.95	0.10	9.6	8.2	6.6	488	335	4	22.2	5.8	2.7	0.00	0.00	0.00	0.00	0.42	21	0.22	11		98.221	97.778	7.77	4.7	21.2	16.2	6.99	7.7	19.4	15.8					
07/30/2019	6.94	0.10	7.0	7.4	4.6	351	231	7	22.3	5.7	3.4	0.00	0.00	0.00	0.00	0.51	26	0.26	13		98.821	98.785	7.80	9.3	82.8	55.2	7.00	5.6	16.8	13.2					
07/31/2019	6.94	0.10	7.6	6.8	6.9	396	360	6	22.6	5.8	3.1	0.00	0.00	0.00	0.00						98.568	98.725	7.78	5.7	29.2	21.8	6.87	7.3	17.2	14.2					
MMAVG														MMAVG		0.51																		
Min.	6.8	0.00	7	3	3	351	203	0	19.4	5.1	1			0.00	0.00	0.21	12	0.03	1		83.91	89.11	7.3	2.0	8.8	6.6	6.9	3.0	10.6	8.6	56.0	85	0.52	28.0	<0.20
Max.	7.4	1.00	51	38	44	4061	3522	2419	23.0	7.1	23			0.00	0.00	1.21	96	4.25	337		98.82	98.78	8.4	9.3	82.8	55.2	8.2	19.5	59.2	44.8	56.0	85	0.52	39.0	<0.20
Total																																		
Average	7.0	<0.16	13	10	8	696	469	12	21.4	6.2	6			0.00	0.00	0.55	30	0.82	54		96.98	96.90	7.8	4.7	19.7	14.3	7.2	9.9	22.6	18.1	56.0	85	0.52	33.5	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
07/01/2019		8,680		6,680		10,610		4.70		2,158,560		60,628			2,042	23,275		69	6,930	5,540	5,340	4,430	15,570	15,570	4.00	6.40	1,391,040	1,440,000	80,106	64,038	4,436	34,752			87	87
07/02/2019		8,340		6,650		10,480		4.60		2,162,880		58,253						82	6,900	5,070	5,630	3,550	14,600	16,020	3.50	5.40	1,440,000	1,781,280	79,759	58,605	2,799	22,871	4,259	35,172	99	89
07/03/2019		8,460		6,630		10,460		6.00		2,160,000		59,091						85	7,340	5,690	5,950	4,550	13,800	12,980	2.10	1.10	1,440,000	1,440,000	86,694	65,772	6,783	56,727	5,184	38,372	82	105
07/04/2019		8,150		6,180		10,480		5.10		2,165,760		56,926						83	7,820	5,960	6,240	4,690	13,530	13,750	2.20	4.10	1,512,000	1,504,800	90,393	68,893	1,615	14,886			92	91
07/05/2019		8,540		6,540		9,470		5.40		2,124,000		59,650						70	9,500	6,790	7,590	5,420	13,630	14,560	2.80	5.10	1,608,480	1,598,400	109,813	78,487	4,750	40,752	4,782	40,752	63	74
07/06/2019		8,200		6,030		10,530		5.28		2,160,000		57,275			3,255	38,432		73	7,170	5,510	5,690	4,390	14,730	12,920	3.66	1.89	1,772,640	1,728,000	82,880	63,691	1,821	16,051	2,176	19,200	91	82
07/07/2019		7,950		6,590		10,650		5.40		2,167,200		55,529						81	6,960	5,220	4,920	4,190	14,620	15,030	2.69	4.67	1,702,080	1,728,000	80,452	60,339	2,881	24,721	3,006	24,557	96	86
07/08/2019		8,660		6,450		12,340		5.98		2,160,000		60,488						64	7,160	6,110	5,630	4,850	13,650	15,680	4.38	5.50	1,728,000	1,584,000	82,764	70,627					82	74
07/09/2019		8,700		6,440		10,880		3.43		2,162,880		60,767			3,546	38,422		61	7,800	6,130	6,170	4,870	14,650	14,240	5.50	4.49	1,440,000	1,440,000	90,162	70,858					76	65
07/10/2019		8,780		6,520		11,200				2,160,000		61,326			1,877	20,008		66	7,630	6,540	5,920	5,130	15,560	13,480			1,584,000	1,584,000	88,197	75,597	7,109	57,636			96	73
07/11/2019		8,880		6,560		11,410		6.02		2,160,000		62,025						56	8,280	7,190	6,470	5,640	13,980	14,880	2.89	5.27	2,160,000	2,160,000	95,711	83,111	4,197	36,000	4,468	36,000	77	70
07/12/2019		8,040		5,790		10,060		6.03		2,167,200		56,157			2,887	35,878		62	7,370	6,260	5,750	4,890	13,770	14,980	3.71	3.92	2,160,000	2,160,000	85,192	72,361	4,175	36,095			72	64
07/13/2019		8,280		6,080		11,510		6.17		2,164,320		57,834						75	8,520	6,610	6,580	5,080	15,000	14,890	2.21	3.41	2,157,120	2,162,880	98,485	76,407					81	74
07/14/2019		8,070		6,040		11,850		6.28		2,164,320		56,367						73	9,180	6,590	7,130	5,120	14,780	16,240	2.78	3.00	2,160,000	2,157,120	106,114	76,175					81	74
07/15/2019		8,380		6,100		10,130		6.64		2,160,000		58,532			3,040	35,978		69	9,570	6,630	7,450	5,390	15,150	14,370	3.42	2.64	2,151,360	2,183,040	110,622	76,638	4,541	35,943	4,325	36,084	75	69
07/16/2019		6,270		5,200		8,350		7.05		2,160,000		43,794						89	8,170	6,790	6,360	5,340	14,080	14,750	4.09	3.35	2,160,000	2,160,000	94,439	78,487	4,212	35,869	4,462	36,268	73	69
07/17/2019		7,630		5,460		8,660		6.80		2,160,000		53,294			2,582	35,746		66	7,950	7,910	6,080	6,110	14,540	14,360	3.41	2.45	2,160,000	2,160,000	91,896	91,434	4,047	35,894	4,424	36,036	77	65
07/18/2019		9,990		7,840		9,580		7.10		2,160,000		69,778						57	7,930	6,770	6,290	5,310	14,940	15,200	3.94	2.29	2,145,600	2,145,600	91,665	78,256	4,148	35,910	4,365	36,095	77	81
07/19/2019		7,390		5,300		9,310		7.33				51,617			3,013	35,717		70	8,430	6,700	6,740	4,850	14,460	14,790	4.14	2.19	2,160,000	2,160,000	97,444	77,447	4,392	36,384	4,381	36,176	72	69
07/20/2019		7,490		5,330		8,800		6.40		2,162,880		52,316						71	8,480	7,890	6,480	6,050	14,710	14,840	4.00	2.34	2,157,120	2,161,440	98,022	91,202					71	65
07/21/2019		7,350		5,260		8,750		6.98		2,160,000		51,338						65	8,860	7,380	6,830	5,810	14,680	15,850			2,304,000	2,160,000	102,415	85,307					63	65
07/22/2019		7,490		5,460		10,630		7.05		2,162,880		52,316			3,167	35,718		80	8,280	7,500	6,350	5,920	15,470	15,240	4.30	2.20	2,020,320	2,162,880	95,711	86,694	4,522	35,964	4,637	36,083	66	64
07/23/2019		6,590		4,700		10,670		7.83		2,161,440		46,030						85	4,370	5,340	3,420	4,360	15,780	15,320	7.08	5.43	2,161,440	2,164,320	50,514	61,726	4,546	34,953	4,361	36,252	60	56
07/24/2019		6,240		4,910		10,070		7.72		2,164,320		43,585						88	6,720	7,960	4,900	6,220	17,050	15,700	5.14	3.43	2,016,000	2,304,000	77,678	92,012	4,988	36,063	3,961	36,182	67	53
07/25/2019		6,430		4,600		9,490		7.89		2,160,000		44,912						93	9,830	7,270	7,520	5,550	14,860	16,070	5.13	5.07	2,162,880	2,154,240	113,627	84,036	4,615	35,780	4,906	36,092	51	62
07/26/2019		7,690		5,530		9,400		7.91		2,160,000		53,713			4,155	52,440		70	6,180	5,680	4,810	4,500	17,410	18,400	5.91	5.69	1,440,000	1,440,000	71,436	65,656					58	53
07/27/2019		6,560		4,640		9,430		7.50		2,160,000		45,820			1,543	19,680		64	6,440	5,850	4,960	4,600	17,310	19,130	6.17	6.07	1,065,600	1,051,200	74,442	67,622					54	55
07/28/2019		7,160		5,110		11,770		7.18		2,168,640		50,011						71	6,780	5,780	5,220	4,480	18,090	20,480	5.30	4.32	872,640	875,520	78,372	66,812					55	57
07/29/2019		7,170		5,130		9,690		6.85		2,160,000		50,081			4,689	53,010		59	6,870	5,710	5,900	3,860	17,870	19,830	5.94	5.54	936,000	921,600	79,412	66,003					52	53
07/30/2019		6,700		4,800		9,200		7.03		2,157,120		46,798			1,523	19,351		69	6,730	5,860	5,190	4,530	17,620	20,150	5.92	6.00	1,082,880	1,071,360	77,794	67,737			8,777	52,607	45	65
07/31/2019		6,960		5,040		9,830		6.48		2,160,000		48,614						69	6,610	6,050	5,150	4,730	17,100	19,300	5.27	5.19	766,080	748,800	76,407	69,933	6,149	41,952	3,220	19,438	53	55
MMAVG																																				
Min.		6,240		4,600		8,350		3		2,124,000		43,585			1,523	19,351		56	4,370	5,070	3,420	3,550	13,530	12,920	2	1	766,080	748,800	50,514	58,605	1,615	14,886	2,176	19,200	45	53
Max.		9,990		7,840		12,340		8		2,168,640		69,778			4,689	53,010		93	9,830	7,960	7,590	6,220	18,090	20,480	7	6	2,304,000	2,304,000	113,627	92,012	7,109	57,636	8,777	52,607	99	105
Total										64,814,400		1,684,865			37,319	443,655											54,017,280	54,492,480	2,736,769	2,291,963	86,726	705,203	75,694	591,366		
Average		7,781		5,793		10,184		6		2,160,480		54,350			2,871	34,127		72	7,637	6,396	5,957	4,981	15,258	15,774	4	4	1,742,493	1,757,822	88,283	73,934	4,336	35,260	4,453	34,786	72	70

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
08/01/2019	6.63	10.16	3.60	0.00	0.000	0.000	75,883		83.0	21.0	7.64	525	484	29,029	26,762		7.17	40.0	774	609	660	42,798	36,494		
08/02/2019	6.40	9.64	2.09	0.00	0.000	0.000	71,504		82.0	18.1	7.52	480	640	25,620	34,161		7.26	55.0	884	684	570	47,184	30,424		
08/03/2019	5.82	10.23	3.11	0.06	0.000	0.000	13,855		68.0	17.8	6.75	138	334	6,698	16,212		7.10	10.0	319	268	122	15,484	5,922		
08/04/2019	5.56	8.54	2.59	0.00	0.000	0.000	3,804		79.5	19.5	7.64	234	326	10,851	15,117		7.61	5.0	258	201	228	11,964	10,572		
08/05/2019	5.73	10.43	3.63	0.00	0.000	0.000	82,556		61.0	18.8	7.69	354	536	16,917	25,614		7.58	4.5	234	182	240	11,182	11,469		
08/06/2019	5.62	8.45	2.49	0.00	0.000	0.000	87,522		60.0	19.8	7.67	359	546	16,827	25,591		7.25	41.0	1210	952	585	56,714	27,419		
08/07/2019	7.42	19.48	3.40	1.10	0.000	0.712	49,766		61.0	19.2	7.70	324	546	20,050	33,788		7.58	9.0	360	294	308	22,278	19,060		
08/08/2019	6.03	9.60	2.87	0.00	0.000	0.000	72,095		62.0	19.3	7.77	324	456	16,294	22,932		7.64	5.0	246	191	282	12,371	14,182		
08/09/2019	5.62	10.24	2.28	0.00	0.000	0.000	41,750		63.0	19.3	7.56	407	486	19,076	22,779		7.26	6.5	259		248	12,140	11,624		
08/10/2019	5.38	8.77	2.71	0.00	0.000	0.000	3,879		69.0		7.53	111	390	4,980	17,499		7.21	13.0	404	324	200	18,127	8,974		
08/11/2019	5.40	8.27	2.43	0.00	0.000	0.000	18,118		64.0		7.63	318	310	14,321	13,961		7.69	5.0	227	167	188	10,223	8,467		
08/12/2019	5.26	8.15	1.85	0.00	0.000	0.000	70,312		59.0	19.2	7.63	312	494	13,687	21,671		7.72	2.5	195	166	311	8,554	13,643		
08/13/2019	5.73	8.84	3.02	0.00	0.000	0.000	72,115		63.0	14.1	7.70	402	586	19,211	28,004		7.71	3.2	182	148	246	8,697	11,756		
08/14/2019	5.56	8.89	2.76	0.00	0.000	0.000	99,724		62.0	17.5	7.88	435	732	20,171	33,943		7.60	4.0	231	188	381	10,712	17,667		
08/15/2019	5.03	10.76	2.49	0.00	0.000	0.000	91,242		61.0	16.5	7.82	387	806	16,235	33,812		7.76	17.0	486	390	342	20,388	14,347		
08/16/2019	5.31	9.26	2.29	0.00	0.000	0.000	67,808		63.0	15.3	7.57	660	102	29,228	4,517		7.30	20.0	369	297	431	16,341	19,087		
08/17/2019	5.93	26.95	2.29	0.35	0.000	0.490	19,709		70.0	16.1	7.68	437	362	21,612	17,903		7.51	7.0	198	161	287	9,792	14,194		
08/18/2019	5.18	8.99	2.13	0.40	0.000		3,659		68.0	18.5	7.77	219	330	9,461	14,256		7.73	15.0	308	176	212	13,306	9,159		
08/19/2019	6.09	22.89	1.90	0.10	0.000	0.283	52,395		64.0	16.3	7.78	366	586	18,589	29,763		7.70	7.5	338	276	294	17,167	14,932		
08/20/2019	5.31	9.74	1.09	0.00	0.000	0.000	87,236		61.0	19.8	7.75	398	566	17,626	25,066		7.58	34.0	866	692	495	38,351	21,921		
08/21/2019	6.59	25.92	2.60	0.60	0.000	0.450	28,678		62.0	18.3	7.71	351	494	19,291	27,151		7.56	9.0	370	280	317	20,335	17,423		
08/22/2019	7.24	9.40	3.65	0.00	0.000	0.000	76,066		62.0	18.7	7.74	380	546	22,945	32,968		7.52	14.0	556	448	422	33,572	25,481		
08/23/2019	5.93	10.41	2.06	0.00	0.000	0.000	72,922		60.0	19.3	7.65	159	506	7,864	25,025		7.22	25.0	1032		197	51,039	9,743		
08/24/2019	5.01	7.29	2.32	0.00	0.000	0.000	19,642		55.0	18.5	7.68	126	398	5,265	16,630		7.47		379		198	15,836	8,273		
08/25/2019	4.85	8.00	2.19	0.00	0.000	0.000	3,653		60.0	18.3	7.68	282	320	11,407	12,944		7.87	4.2	147	123	176	5,946	7,119		
08/26/2019	5.56	8.33	3.01	0.00	0.000	0.000	67,368		55.0	18.3	7.76	356	494	16,508	22,907		7.80	13.0	359	298	342	16,647	15,859		
08/27/2019	5.31	9.99	1.46	0.00	0.000	0.000	82,739		55.0	19.2	7.90	426	774	18,866	34,277		7.68	2.0	136	111	222	6,023	9,831		
08/28/2019	7.83	23.87	2.51	1.20	0.000	0.768	62,407		61.0	18.3							7.31	2.0	138	118	231	9,012	15,085		
08/29/2019	6.00	11.22	2.12		0.000	0.000	39,237		79.0	19.5	7.74	885	686	44,285	34,327		7.09	17.0	520	439	585	26,021	29,273		
08/30/2019	5.25	11.18	2.16	0.00	0.000	0.000	50,499		75.0	21.7	7.65	345	620	15,106	27,147		6.95	21.0	504	432	420	22,068	18,390		
08/31/2019	4.77	7.86	2.01	0.00	0.000	0.000	4,674		60.0	21.8	7.46	420	676	16,708	26,892		7.28	17.0	388	329	366	15,435	14,560		
MMAVG	9.96																								
Min.	4.8	7.3	1.1	0.0		0.000	3,653		55.0	14.1	6.75	111	102	4,980	4,517		6.95	2.0	136	111	122	5946	5922		
Max.	7.8	27.0	3.7	1.2		0.768	99,724		83.0	21.8	7.90	885	806	44,285	34,327		7.87	55.0	1210	952	660	56714	36494		
Total	179.4	361.8	77.1	3.8		2.703	1,592,817																		
Average	5.8	11.7	2.5	0.1		0.090	51,381		64.76	18.55	7.66	364	504	17491	24121		7.47	14.3	415	319	326	20184	15882		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
08/01/2019	7.03	<0.10	16.4	12.8	11.3	907	625	2419	22.8	5.5	3.1	0.00	0.00	0.00	0.00						97.848	96.612	7.64	51.0	216.0	145.0	6.95	15.5	35.6	28.2					
08/02/2019	7.00	0.20	14.8	13.4	11.4	790	608	164	22.5	5.6	6.2	0.00	0.00	0.00	0.00						97.625	97.688					8.22	20.9	38.8	31.6					
08/03/2019	7.02	0.20	14.6	12.8	8.3	709	403	19	22.4	6.8	4.9	0.00	0.00	0.00	0.00						93.986	95.629	0.00				7.20	12.5	32.2	26.4					
08/04/2019	7.01	<0.10	15.6	11.2	9.0	723	417	8	22.5	6.7	2.1	0.00	0.00	0.00	0.00	0.43	20	0.50	23		96.154	95.215					7.18	7.0	44.2	27.0					
08/05/2019	6.91	0.20	20.0	13.8	16.4	956	784	16	22.0	6.1	6.5	0.00	0.00	0.00	0.00	0.58	28	4.81	230		95.367	96.269					7.38	38.4	43.2	31.6					
08/06/2019	7.26	0.10	16.6	11.6	14.3	778	670	24	22.0	5.5	5.1	0.00	0.00	0.00	0.00	0.55	26	6.38	299		96.017	96.960					7.56	36.0	39.2	29.6					
08/07/2019	7.23	0.10	43.4	31.0	39.3	2,686	2,432	72	22.5	5.4	7.1	0.00	0.00	0.00	0.00						87.870	92.051					7.25	29.4	53.0	41.8	45.00	94.00	0.76	23.00	<0.20
08/08/2019	7.27	0.30	18.2	10.2	17.7	915	890	2419	22.4	5.7	9.5	0.00	0.00	0.00	0.00						94.537	96.009					7.54	18.2	42.2	32.6					
08/09/2019	7.13	0.30	20.8		11.7	975	548	2419	22.9	5.4	8.9	0.00	0.00	0.00	0.00						97.125	95.720					7.22	21.5	47.8						
08/10/2019	6.86	0.10	18.6	13.8	9.8	835	440	66	22.3	7.0	2.1	0.00	0.00	0.00	0.00						91.171	95.231					7.48	13.7	45.8	34.4					
08/11/2019	6.83	0.10	20.8	12.4	12.3	937	554	31	22.1	6.8	4.5	0.00	0.00	0.00	0.00	0.47	21	0.65	29		96.132	93.290					7.31	16.5	39.8	31.8					
08/12/2019	6.91	0.20	22.2	16.2	9.2	974	404	9	22.2	6.2	5.8	0.00	0.00	0.00	0.00	0.62	27	2.32	102		97.051	95.506					7.26	15.5	38.4	30.6					
08/13/2019	6.92	0.20	18.0	11.8	12.6	860	602	30	22.5	5.9	8.8	0.00	0.00	0.00	0.00	0.48	23	2.69	129		96.866	96.928					7.40	22.4	34.2	25.0					
08/14/2019	7.19	0.30	16.0	10.0	17.0	742	788	16	22.9	5.9	7.3	0.00	0.00	0.00	0.00						96.092	97.814					7.45	24.6	36.6	26.4					
08/15/2019	7.24	0.30	16.0	10.2	15.6	671	654	240	22.8	5.8	9.5	0.00	0.00	0.00	0.00						95.969	98.015					7.53	24.2	26.0	20.8					
08/16/2019	7.42	0.30	10.8	7.8	5.5	478	244	960	23.5	6.0	9.4	0.00	0.00	0.00	0.00						99.167	89.412					7.30	15.2	14.6	10.8					
08/17/2019	7.06	0.10	29.8	22.6	21.0	1,474	1,039	1	24.0	6.1	3.2	0.00	0.00	0.00	0.00						95.195	91.768					7.29	9.3	23.8	18.8					
08/18/2019	6.97	0.10	12.4	7.2	5.2	536	225	185	24.1	6.0	4.9	0.00	0.00	0.00	0.00	0.29	13	0.31	13		97.626	96.242					7.35	7.8	29.0	20.6					
08/19/2019	7.22	0.20	24.0	18.4	15.6	1,219	792	7	23.1	5.9	6.4	0.00	0.00	0.00	0.00	0.53	27	2.14	109		95.738	95.904					7.38	14.9	39.6	30.2					
08/20/2019	7.12	0.30	12.8	8.4	7.5	567	332	4	23.2	5.6	8.7	0.00	0.00	0.00	0.00	0.38	17	0.52	23		98.116	97.739					7.39	8.4	26.2	18.6					
08/21/2019	7.12	0.10	22.2	15.8	23.4	1,220	1,286	54	23.1	5.6	4.8	0.00	0.00	0.00	0.00						93.333	95.506					7.44	10.8	29.4	21.0					
08/22/2019	7.16	0.10	14.8	11.0	10.7	894	646	71	23.5	5.3	5.7	0.00	0.00	0.00	0.00						97.184	97.289					7.37	15.5	35.8	26.2					
08/23/2019	7.28	0.20	14.6		6.0	722	297	241	23.5	5.8	7.8	0.00	0.00	0.00	0.00						96.226	97.115					7.38	8.2	49.8						
08/24/2019	7.20	0.10	14.0		3.2	585	134	98	22.8	7.0	3.8	0.00	0.00	0.00	0.00						97.460	96.482					7.33	8.3	44.6						
08/25/2019	6.93	0.10	12.0	8.8	4.9	485	198		22.5	6.9	3.8	0.00	0.00	0.00	0.00	0.32	13	0.25	10		98.262	96.250					7.28	8.4	47.4	36.2					
08/26/2019	6.93	0.10	14.2	10.0	6.2	658	287	9	22.2	6.2	6.2	0.00	0.00	0.00	0.00	0.41	19	0.81	38		98.258	97.126					7.38	15.3	45.2	32.6					
08/27/2019	7.12	0.20	12.0	9.0	5.7	531	252	228	22.4	6.3	8.3	0.00	0.00	0.00	0.00	0.40	18	0.32	14		98.662	98.450					7.42	10.2	40.4	29.8					
08/28/2019	7.14	0.20	29.2	23.6	22.2	1,907	1,450	11	22.3	6.1	10.2	0.00	0.00	0.00	0.00												6.91	11.1	34.6	27.6					
08/29/2019	6.88	0.20	8.6	7.4	5.6	430	280	16	22.8	5.8	4.9	0.00	0.00	0.00	0.00						99.367	98.746					7.11	10.0	24.2	19.6					
08/30/2019	6.99	0.10	9.6	6.8	3.7	420	162	31	22.6	6.1	3.3	0.00	0.00	0.00	0.00						98.928	98.452					7.93	5.7	20.6	17.2					
08/31/2019	7.06	0.10	9.6	7.4	4.4	382	175	12	22.7	6.8	2.9	0.00	0.00	0.00	0.00						98.952	98.580					8.13	7.1	21.6	17.6					
MMAVG														MMAVG		0.52																		
Min.	6.8	<0.10	9	7	3	382	134	1	22.0	5.3	2			0.00	0.00	0.29	13	0.25	10		87.87	89.41	0.0	51.0	216.0	145.0	6.9	5.7	14.6	10.8	45.0	94	0.76	23.0	<0.20
Max.	7.4	0.30	43	31	39	2686	2432	2419	24.1	7.0	10			0.00	0.00	0.62	28	6.38	299		99.37	98.75	7.6	51.0	216.0	145.0	8.2	38.4	53.0	41.8	45.0	94	0.76	23.0	<0.20
Total																																			
Average	7.1	<0.17	18	13	12	870	601	50	22.7	6.1	6			0.00	0.00	0.46	21	1.81	85		96.41	96.13	3.8	51.0	216.0	145.0	7.4	15.6	36.3	26.6	45.0	94	0.76	23.0	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
08/01/2019		7,250		5,270		9,820		6.48		2,160,000		50,639						69	6,760	6,020	5,320	4,760	18,360	19,530	5.67	5.44	921,600	936,000	78,140	69,587	6,549	44,857	4,798	28,925	52	57
08/02/2019																			7,070	5,980	5,460	4,650	17,890	19,730	4.31	2.70	917,280	924,480	81,724	69,124	4,355	28,923	4,776	28,564	54	59
08/03/2019																			7,630	6,230	5,930	4,820	19,960	20,040	4.35	3.20	1,074,240	1,100,160	86,694	72,014					49	43
08/04/2019																			7,780	6,470	6,070	5,120	19,960	21,230	4.51	3.08	1,252,800	1,262,880	89,931	74,788					45	42
08/05/2019																			7,970	5,420	6,140	4,170	19,050	23,490	3.10	0.36	1,520,640	1,396,800	92,127	62,651	4,834	29,041	5,144	29,054	45	46
08/06/2019																			9,060	6,750	7,120	5,310	20,720	20,150	3.90	0.34	1,069,920	1,062,720	104,727	78,025	4,446	29,042	4,696	29,296	53	42
08/07/2019																			9,010	5,580	6,940	4,370	21,990	21,990	4.50	3.50	878,400	866,880	104,149	64,501	4,788	28,808	5,031	29,393	53	54
08/08/2019																			7,190	5,660	5,570	4,390	19,040	21,260	4.80	6.00	1,173,600	1,166,400	83,111	65,425	3,321	21,000	3,785	21,000	54	50
08/09/2019																			8,890	5,180	6,410	3,690	20,110	23,690	4.95	4.58	1,440,000	1,440,000	102,762	59,877	6,286	37,976	7,148	37,855	50	50
08/10/2019																			9,320	5,930	7,320	4,770	20,540	22,790	4.36	4.19	1,016,640	1,032,480	107,732	68,546					49	44
08/11/2019																			9,360	5,720	7,040	4,340	19,000	22,870	4.76	6.00	889,920	895,680	108,194	66,119					51	49
08/12/2019																			10,120	6,010	7,860	4,660	20,240	22,510	5.49	5.29	1,238,400	1,195,200	116,980	69,471	4,163	23,923	4,516	24,240	48	43
08/13/2019																			9,280	5,980	7,150	4,630	21,800	24,140	5.54	5.04	957,600	1,134,720	107,270	69,124	3,211	17,009	7,322	39,600	49	42
08/14/2019																			9,330	6,630	7,240	5,170	22,120	22,200	5.29	4.45	973,440	862,560	107,848	76,638	5,392	30,160	8,982	47,411	45	39
08/15/2019																			9,870	6,260	7,430	4,800	21,410	23,620	5.24	4.33	1,585,440	1,591,200	114,090	72,361	2,417	14,619	2,946	15,244	41	40
08/16/2019																			11,070	7,280	8,430	5,590	19,710	20,260	5.73	5.72	1,765,440	1,756,800	127,961	84,151	7,217	44,516	7,350	43,498	50	44
08/17/2019																			9,830	7,060	7,440	5,390	21,190	21,840	4.10	4.90	1,003,680	1,000,800	113,627	81,608					53	52
08/18/2019																			9,250	6,770	7,060	5,250	21,050	22,280	4.13	5.20	1,175,040	1,173,600	106,923	78,256					49	50
08/19/2019																			8,860	7,290	7,640	4,850	19,100	21,860	2.16	3.21	1,848,960	1,836,000	102,415	84,267	7,584	43,200	8,027	43,200	51	49
08/20/2019																			9,080	8,120	6,260	5,780	19,140	21,940	4.80	3.96	1,224,000	1,224,000	104,958	93,861	3,040	17,928	3,213	17,928	47	43
08/21/2019																			10,130	7,360	7,710	5,670	20,040	21,140	4.28	4.36	1,222,560	1,219,680	117,095	85,076	3,905	23,031	4,051	22,602	44	46
08/22/2019																			9,580	8,100	7,160	6,150	21,440	22,330	4.40	4.14	1,555,200	1,500,480	110,738	93,630	7,945	43,252	7,770	43,101	46	46
08/23/2019																			9,700	8,120	7,480	6,260	20,820	21,840	4.14	4.12	2,188,800	2,275,200	112,125	93,861	5,632	32,435	5,837	32,045	42	41
08/24/2019																			10,470	8,150	8,000	6,190	21,350	23,110	4.70	4.79	828,000	828,000	121,025	94,208					43	43
08/25/2019																			10,720	7,750	8,190	5,930	20,180	24,170	5.06	4.97	1,032,480	1,032,480	123,915	89,584					45	44
08/26/2019																			11,060	7,730	8,470	6,030	19,840	26,190	4.38	3.82	1,872,000	1,872,000	127,845	89,353	7,208	43,190	9,109	43,391	47	45
08/27/2019																			8,460	7,350	6,090	5,730	20,260	22,630	4.08	3.39			97,791	84,960	6,963	43,059	7,994	43,402	39	61
08/28/2019																			11,000	7,400	8,570	5,820	20,120	24,430	4.80	4.30	1,512,000	1,526,400	127,152	85,538					27	61
08/29/2019																			8,930	7,030	6,770	5,370	23,050	22,700	5.64	5.58	2,016,000	2,008,800	103,224	81,261	7,590	43,132	7,897	43,274	40	44
08/30/2019																			10,110	8,100	7,620	6,120	20,990	22,640	5.31	4.08	1,303,200	1,306,080	116,864	93,630	7,725	42,942	8,205	43,390	49	46
08/31/2019																			9,860	7,960	7,630	6,100	21,120	23,010	4.42	4.44	1,216,800	1,298,880	113,974	92,012					42	44
MMAVG																																				
Min.		7,250		5,270		9,820		6		2,160,000		50,639						69	6,760	5,180	5,320	3,690	17,890	19,530	2	0	828,000	828,000	78,140	59,877	2,417	14,619	2,946	15,244	27	39
Max.		7,250		5,270		9,820		6		2,160,000		50,639						69	11,070	8,150	8,570	6,260	23,050	26,190	6	6	2,188,800	2,275,200	127,961	94,208	7,945	44,857	9,109	47,411	54	61
Total										2,160,000		50,639															38,674,080	38,727,360	3,314,614	2,443,507	114,571	682,043	128,597	706,413		
Average		7,250		5,270		9,820		6		2,160,000		50,639						69	9,250	6,819	7,081	5,222	20,374	22,310	5	4	1,289,136	1,290,912	106,923	78,823	5,456	32,478	6,124	33,639	47	47

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
09/01/2019	4.67	7.87	2.07	0.00	0.000	0.000	4,101		53.0	20.8	7.58	131	282	5,102	10,983		7.44	10.0	294		212	11,451	8,257		
09/02/2019	5.05	9.61	1.85	0.05	0.000	0.000	3,338		61.0	20.9	7.67	269	362	11,329	15,246		7.70	10.0	265	211	212	11,161	8,929		
09/03/2019	5.67	9.69	2.17	0.00	0.000	0.000	70,601		61.0	21.0	7.62	389	534	18,395	25,252		7.79	1.9	137	107	198	6,478	9,363		
09/04/2019	4.93	32.91	3.22	0.20	0.000	0.651	49,134		59.0	21.3	7.63	378	608	15,542	24,999		7.66	7.0	254	215	288	10,444	11,841		
09/05/2019	5.17	31.14	1.96	0.00	0.000	0.045	85,754		56.0	22.5	7.52	398	582	17,161	25,095		7.44	70.0	1794	1422	900	77,353	38,806		
09/06/2019	4.76	10.22	1.96	0.00	0.000	0.045	70,160		54.0	21.3	6.53	192	444	7,622	17,626		7.35	20.0	465	383	231	18,460	9,170		
09/07/2019	4.85	8.66	1.95		0.000	0.000	11,068		80.0	20.4	6.93	156	186	6,310	7,524		7.35	22.0	383	314	354	15,492	14,319		
09/08/2019	4.77	8.11	2.02	0.00	0.000	0.000	3,524		75.0	20.8	7.58	252	318	10,025	12,651		7.54	9.5	335	278	288	13,327	11,457		
09/09/2019	5.52	7.40	2.69	0.00	0.000	0.000	96,327		49.0	20.7	7.57	450	864	20,717	39,776		7.58	9.0	185	162	326	8,517	15,008		
09/10/2019	5.87	8.00	1.90	0.00	0.000	0.000	113,361		56.0	22.2	7.28	780	2136	38,186	104,570		7.50	35.0	988	804	555	48,368	27,170		
09/11/2019	4.93	8.28	1.92	0.00	0.000		86,789		63.0	20.8	7.45	600	1170	24,670	48,106		7.47	15.0	456	368	395	18,749	16,241		
09/12/2019	5.05	9.60	1.09	0.10	0.000	0.000	49,877		60.0	20.7	7.49	555	958	23,375	40,348		7.64	10.0	329	276	339	13,856	14,278		
09/13/2019	4.84	9.99	2.85	0.00	0.000	0.000	88,063		51.0	20.7	7.45	462	574	18,649	23,170		7.05	15.0	472	405	450	19,053	18,165		
09/14/2019	5.33	11.82	2.14	0.11	0.000	0.000	12,537		58.0	20.6	7.55	114	424	5,068	18,848		7.11	28.0	676	577	293	30,050	13,024		
09/15/2019	5.00	8.06	1.91	0.00	0.000	0.000	3,120		68.0	20.6	7.71	228	316	9,508	13,177		7.75	7.5	245	205	246	10,217	10,258		
09/16/2019	5.07	8.29	1.70	0.00	0.000	0.000	74,013		57.0	20.8	7.48	405	584	17,125	24,694		7.58	5.0	220	189	258	9,302	10,909		
09/17/2019	4.91	8.04	2.70	0.00	0.000	0.000	78,624		52.0	20.8	7.69	345	636	14,128	26,044		7.74	6.5	235	205	252	9,623	10,319		
09/18/2019	4.86	9.82	2.74	0.00	0.000	0.000	85,360		50.0	21.1	7.73	354	586	14,348	23,752		7.58	23.0	608	520	450	24,644	18,240		
09/19/2019	4.86	8.59	2.90	0.00	0.000	0.000	91,308		39.0	20.8	7.58	416	702	16,861	28,454		7.57	30.0	576	502	390	23,347	15,808		
09/20/2019	4.90	9.54	2.12	0.00	0.000	0.000	48,544		42.0	20.7	7.42	449	562	18,349	22,967		7.48	25.0	212	165	347	8,664	14,181		
09/21/2019	4.75	8.47	1.97	0.00	0.000	0.000	23,525		60.0	21.0	7.75	381	452	15,093	17,906		7.66	22.0	343	284	294	13,588	11,647		
09/22/2019	4.98	9.22	1.82	0.00	0.000	0.000	6,451		57.0	28.2							7.74	36.0	638	558	374	26,498	15,533		
09/23/2019	5.18	8.46	2.18	0.05	0.000	0.000	69,203		69.0	20.7	7.70	375	864	16,200	37,326		7.57	9.5	327	262	314	14,127	13,565		
09/24/2019	5.04	10.67	1.96	0.00	0.000	0.000	91,594		68.0	21.8	7.77	345	804	14,502	33,795		7.64	33.0	746	612	450	31,357	18,915		
09/25/2019	4.95	8.88	1.86	0.00	0.000		81,926		58.0	21.1	7.90	390	742	16,100	30,632		7.76	23.0	626	514	380	25,843	15,688		
09/26/2019	5.46	11.41	2.21	0.15	0.000	0.000	61,605		57.0	20.8	7.67	450	758	20,491	34,517		7.58	34.0	696	572	380	31,693	17,304		
09/27/2019	4.79	9.08	2.18	0.00	0.000	0.000			52.0	21.3	7.75	123	430	4,914	17,178		7.43	50.0	579		206	23,130	8,229		
09/28/2019	4.81	7.96	1.98	0.00	0.000	0.000			49.0	20.9	7.70	113	354	4,533	14,201		7.45	25.0	349		198	14,000	7,943		
09/29/2019	4.95	8.90	2.08	0.00	0.000	0.000			64.0	21.3	7.75	246	412	10,156	17,009		7.76	11.0	308	247	228	12,715	9,413		
09/30/2019	5.01	8.66	2.04	0.01	0.000	0.000	91,481		57.0	21.1	7.93	318	616	13,287	25,739		7.58	12.0	418	341	321	17,465	13,412		
MMAVG	9.60																								
Min.	4.7	7.4	1.1	0.0		0.000	3,120		39.0	20.4	6.53	113	186	4,533	7,524		7.05	1.9	137	107	198	6478	7943		
Max.	5.9	32.9	3.2	0.2		0.651	113,361		80.0	28.2	7.93	780	2136	38,186	104,570		7.79	70.0	1794	1422	900	77353	38806		
Total	150.9	317.4	64.1	0.7		0.741	1,551,388																		
Average	5.0	10.6	2.1	0.0		0.026	57,459		57.83	21.26	7.56	347	630	14750	26951		7.55	20.5	472	396	338	19966	14246		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
09/01/2019	6.87	0.10	13.0		3.4	506	132	37	22.3	6.4	2.3	0.00	0.00	0.00	0.00	0.26	10	0.29	11		97.405	95.390					6.91	7.2	21.6						
09/02/2019	6.75	0.00	11.2	10.0	6.3	472	265	7	22.3	6.2	3.5	0.00	0.00	0.00	0.00	0.32	13	0.32	13		97.658	96.906					6.98	9.6	26.8	21.6					
09/03/2019	6.84	0.10	14.0	10.0	6.7	662	317	4	22.3	6.3	8.6	0.00	0.00	0.00	0.00	0.64	30	0.29	14		98.278	97.378					7.22	11.7	36.4	28.0					
09/04/2019	7.12	0.10	37.4	27.6	42.0	1,538	1,727	15	22.1	5.8	5.6	0.00	0.00	0.00	0.00						88.889	93.849					7.27	10.8	33.2	26.6					
09/05/2019	7.44	0.10	29.6	22.8	40.8	1,276	1,759	548	22.3	6.9	16.9	0.00	0.00	0.00	0.00						89.749	94.914					7.45	16.2	24.0	17.8					
09/06/2019	7.43	0.10	12.8	10.8	25.2	508	1,000	47	22.4	6.1	18.9	0.00	0.00	0.00	0.00						86.875	97.117	7.35	28.8	14.4	13.2	7.48	5.2	20.2	14.8	95.00	230.00	2.00	44.00	<0.20
09/07/2019	7.49	0.01	6.4		5.5	259	222	19	20.0	6.7	15.5	0.00	0.00	0.00	0.00						96.474	96.559	7.42	22.5	35.4	30.2	7.49	6.5	17.8	14.0					
09/08/2019	7.11	0.01	11.8	9.0	10.1	469	402	13	21.8	6.6	4.5	0.00	0.00	0.00	0.00						95.992	96.289	7.78	15.0	13.8	11.8	7.07	9.0	19.0	14.6					
09/09/2019	7.23	<0.10	10.4	7.0	7.7	479	354	5	21.8	6.4	4.1	0.00	0.00	0.00	0.00	2.22	102	4.17	192		98.289	98.796	7.62	16.2	14.4	12.2	6.91	8.7	25.6	19.4					
09/10/2019	7.17	0.10	17.0	11.6	9.9	832	485	2	21.7	6.5	7.0	0.00	0.00	0.00	0.00	2.15	105	1.55	76		98.731	99.204	7.92	15.2	16.6	16.2	7.40	9.3	28.0	23.8					
09/11/2019	7.37	<0.10	15.0	10.8	11.0	617	452	7	23.1	6.0	7.8	0.00	0.00	0.00	0.00						98.167	98.718	7.83	19.1	19.8	15.6	7.42	9.0	24.6	17.4					
09/12/2019	7.26	<0.10	17.2	12.2	13.2	724	556	4	23.1	5.8	12.6	0.00	0.00	0.00	0.00						97.622	98.205	7.61	22.7	22.0	17.8	7.28	10.2	22.8	17.6					
09/13/2019	7.03	0.10	20.0	16.6	11.1	807	448		22.3	5.3	7.7	0.00	0.00	0.00	0.00						97.597	96.516	7.48	24.0	20.6	20.2	7.14	6.9	25.0	19.6					
09/14/2019	7.01	0.00	17.4	14.2	9.2	773	409	73	22.0	7.0	4.7	0.00	0.00	0.00	0.00						91.930	95.896	7.51	18.9	21.8	18.0	7.23	7.3	24.6	18.8					
09/15/2019	7.03	0.10	13.8	9.6	11.7	575	488	1	22.0	6.8	3.1	0.00	0.00	0.00	0.00	1.34	56	2.38	99		94.868	95.633	7.76	18.9	19.8	14.6	7.41	6.1	20.0	14.4					
09/16/2019	7.17	<0.10	9.0	6.4	9.8	381	414	1	22.1	6.4	7.4	0.00	0.00	0.00	0.00	1.66	70	3.17	134		97.580	98.459	7.76	21.8	19.6	16.2	7.43	6.0	17.4	11.8					
09/17/2019	7.40	<0.10	9.6	6.2	9.5	393	389	1	21.9	6.2	6.6	0.00	0.00	0.00	0.00	1.66	68	5.62	230		97.246	98.491	7.83	20.4	14.8	12.4	7.39	5.9	16.0	9.6		65.00		31.00	
09/18/2019	7.39	<0.10	38.2	33.4	24.0	1,548	973	1	22.0	6.3	5.3	0.00	0.00	0.00	0.00						93.220	93.481	7.79	22.7	15.4	13.6	7.41	5.9	15.0	11.0					
09/19/2019	7.37	<0.10	11.4	8.4	11.7	462	474	11	21.6	6.1	6.1	0.00	0.00	0.00	0.00						97.188	98.376	7.75	19.1	17.4	14.2	7.35	6.9	14.6	11.0					
09/20/2019	7.20	<0.10	19.8	5.2	8.1	809	331	31	21.6	5.3	4.7	0.00	0.00	0.00	0.00						98.196	96.477	7.51	21.9	12.4	9.2	7.17	4.8	6.4	12.4					
09/21/2019	7.42	0.01	11.2	9.0	4.8	444	190	3	21.3	5.9	2.9	0.00	0.00	0.00	0.00						98.740	97.522	7.60	19.8	10.8	8.0	7.19	4.3	4.6	3.6					
09/22/2019	7.01	0.00	11.6	8.6	5.1	482	212	1	22.5	5.8	258.0	0.00	0.00	0.00	0.00	1.27	53	0.38	16				7.86	12.8	14.2	11.4	7.46	5.4	15.6	11.2					
09/23/2019	7.05	<0.10	9.4	5.6	5.8	406	251	4	22.0	6.4	4.3	0.00	0.00	0.00	0.00	1.12	48	0.32	14		98.453	98.912	7.85	9.0	14.2	30.6	7.44	4.6	14.0	9.8					
09/24/2019	7.23	<0.10	11.8	7.0	5.7	496	240	1	22.7	5.6	5.2	0.00	0.00	0.00	0.00	1.38	58	0.30	13		98.348	98.532	7.80	9.3	18.2	14.8	7.33	5.2	16.4	12.6					
09/25/2019	7.27	<0.10	9.2	6.8	5.5	380	227	3	22.3	5.8	6.2	0.00	0.00	0.00	0.00						98.590	98.760	7.84	8.4	17.0	13.2	7.40	4.9	16.2	10.8					
09/26/2019	7.34	<0.10	9.2	-13.4	6.2	419	282	3	22.2	5.5	4.3	0.00	0.00	0.00	0.00						98.622	98.786	7.82	10.8	18.4	14.2	7.44	7.3	17.8	13.6					
09/27/2019	7.31	<0.10	10.4		3.8	415	152	33	21.8	5.7	4.1	0.00	0.00	0.00	0.00						96.911	97.581	7.74	8.1	17.8		7.22	4.7	18.4						
09/28/2019	7.20	0.00	10.8		5.5	433	221	45	21.5	7.0	2.9	0.00	0.00	0.00	0.00						95.133	96.949	7.65	7.2	16.6		7.13	3.8	15.6						
09/29/2019	7.06	0.00	9.0	6.0	5.2	372	215	3	220.0	7.0	2.8	0.00	0.00	0.00	0.00	1.00	41	0.27	11		97.886	97.816	7.78	8.4	15.6	12.8	7.14	6.0	13.4	9.6					
09/30/2019	7.17	<0.10	11.2	6.6	5.5	468	230	3	21.7	6.7	4.7	0.00	0.00	0.00	0.00	1.28	53	0.24	10		98.270	98.182	7.76	8.1	20.0	15.0	7.10	5.3	13.4	9.6					
MMAVG													MMAVG		0.58																				
Min.	6.8	0.00	6	-13	3	259	132	1	20.0	5.3	2			0.00	0.00	0.26	10	0.24	10		86.88	93.48	7.4	7.2	10.8	8.0	6.9	3.8	4.6	3.6	95.0	65	2.00	31.0	<0.20
Max.	7.5	0.10	38	33	42	1548	1759	548	220.0	7.0	258			0.00	0.00	2.22	105	5.62	230		98.74	99.20	7.9	28.8	35.4	30.6	7.5	16.2	36.4	28.0	95.0	230	2.00	44.0	<0.20
Total																																			
Average	7.2	<0.07	15	10	11	614	461	7	28.6	6.2	15			0.00	0.00	1.25	55	1.48	64		96.31	97.23	7.7	16.4	17.6	15.5	7.3	7.2	19.5	15.0	95.0	148	2.00	37.5	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
09/01/2019																			9,040	8,040	7,050	6,240	19,590	23,550	5.41	5.29	1,105,920	1,111,680	104,496	92,936					44	44
09/02/2019																			8,880	7,860	6,750	5,990	21,150	22,700	6.40	5.59	993,600	1,002,240	102,646	90,856					45	48
09/03/2019																			8,520	7,940	6,540	6,030	20,390	21,880	6.52	5.52	1,209,600	1,209,600	86,694	91,780	7,517	44,268	7,770	43,990	48	45
09/04/2019																			10,240	7,930	7,730	6,070	20,100	22,820	6.21	5.50	1,209,600	1,209,600	118,367	91,665					39	39
09/05/2019																			10,730	8,920	8,090	6,700	19,590	23,020	4.32	4.81	1,468,800	1,468,800	124,031	103,108	5,235	43,592	6,919	43,572	48	47
09/06/2019		3,620		2,880		8,020		0.00		777,600		25,285						47	10,550	9,250	7,970	7,010	17,150	14,470	2.99	2.99	1,288,800	1,288,800	121,950	106,923	5,398	41,030	5,771	41,300	46	44
09/07/2019		4,880		3,820		10,630				777,600		34,086						41	10,160	8,760	7,710	6,690	15,920	16,640	2.99	2.99	1,281,600	1,281,600	117,442	101,259					49	42
09/08/2019		4,640		4,360		12,010				1,440,000		32,409						67	9,710	8,870	7,360	6,830	14,480	15,300	3.64	4.68	907,200	910,080	112,240	102,530					42	45
09/09/2019		5,820		4,670		12,050		2.83		1,444,320		40,651			4,085	40,445		62	10,180	8,760	7,740	6,580	14,820	13,690	4.01	4.69	1,929,600	1,784,160	117,673	101,259	5,273	43,157			42	46
09/10/2019		5,520		4,330		14,000		2.80		1,435,680		38,556			1,754	17,363		54	10,040	9,360	7,760	6,780	15,120	15,410	4.00	5.00	1,771,200	1,728,000	116,055	108,194	3,478	28,758	3,804	28,912	47	45
09/11/2019		5,920		4,780		13,640		2.85				41,350						61	9,780	9,270	7,350	7,010	15,690	14,850	3.48	4.24	1,751,040	1,817,280	113,049	107,154	5,457	41,611	5,076	41,211	48	45
09/12/2019		5,450		3,260		13,540		2.63		1,440,000		38,067						79	8,850	8,060	6,580	6,070	15,300	14,870	3.81	5.11	1,379,520	1,368,000	102,299	93,167	6,534	49,355	6,456	49,163	54	62
09/13/2019		5,530		3,490		18,740		4.17		1,391,040		38,626						54	8,880	8,490	7,510	6,250	14,440	13,400	4.61	5.54	1,814,400	1,843,200	102,646	98,138	954	7,924	892	7,984	47	47
09/14/2019		5,160		4,220		18,660		3.65				36,041						50	9,080	8,590	6,870	6,510	12,730	12,650	4.61	5.54	1,814,400	1,843,200	104,958	99,294					50	48
09/15/2019		5,680		4,530		21,940		3.62		964,800		39,673						53	9,080	8,950	6,680	6,610	13,230	12,040	6.59	5.87	1,555,200	1,468,800	104,958	103,455					49	49
09/16/2019		6,160		4,930		22,870		2.75		1,235,520		43,026						57	9,330	9,130	7,000	6,780	12,330	12,700	5.20	5.71	1,463,040	1,467,360	107,848	105,536					47	44
09/17/2019		6,690		5,490		19,380		2.86		917,280		46,728						46	9,280	8,740	6,870	6,490	12,930	13,190	5.41	5.97	1,346,400	1,372,320	107,270	101,028					47	47
09/18/2019		10,730		8,560		15,440		0.78		2,878,560		74,946						47	9,170	8,990	6,760	6,620	13,480	13,480	6.02	6.63	1,824,480	1,825,920	105,998	103,918	5,643	48,450	5,472	48,568	50	50
09/19/2019		10,550		8,470		16,040		0.71		2,882,880		73,689			3,856	28,825		62	9,010	8,430	6,770	6,250	12,170	11,670	6.43	6.96	1,866,240	1,872,000	104,149	97,444	4,394	43,292	2,825	29,023	49	49
09/20/2019		10,870		8,770		15,610	0.00	3.61		2,878,560		75,924			7,263	55,969		28	8,820	8,600	6,550	6,410	12,580	12,520	5.65	5.88	2,309,760	2,298,240	101,952	99,409	3,968	28,836	3,317	28,894	50	48
09/21/2019		10,230		8,160		15,720		0.53		2,877,120		71,454						67	8,270	8,420	6,170	6,220	12,220	14,370	6.30	6.26	1,054,080	1,056,960	95,595	97,329	3,453	28,836	0	0	57	55
09/22/2019		10,790		8,660		14,950		1.62		2,875,680		75,365						65	7,790	8,380	5,800	6,220	15,460	14,790	6.10	6.04	1,091,520	1,087,200	90,046	96,866					55	59
09/23/2019		9,280		7,430		12,300		1.02		2,203,200		64,818			2,948	28,738		75	5,670	5,370	4,200	4,060	14,850	11,910	4.95	4.95	1,512,000	1,987,200	65,541	62,073			0	0	76	88
09/24/2019		9,390		7,330		13,660		2.76				65,587						51	8,590	10,350	6,560	7,880	15,920	13,700	4.29	4.19	1,396,800	1,396,800	99,294	119,638	3,737	28,412	3,778	28,852	52	50
09/25/2019		8,990		7,180		12,370		2.89		2,160,000		62,793			5,942	57,600		55	8,230	9,080	6,270	6,970	14,930	13,130	5.35	5.20	2,265,120	2,289,600	95,133	104,958	4,141	28,456	6,316	57,682	54	56
09/26/2019		9,420		7,410		14,130		2.26		2,160,000		65,796			6,788	57,600		51	7,980	8,260	6,050	6,210	15,890	14,710	5.63	5.74	1,319,040	1,326,240	92,243	95,479	4,016	28,884	3,973	28,722	53	56
09/27/2019		9,260		7,260		12,280		2.64		2,145,600		64,679			5,819	57,543		54	7,420	8,170	5,690	6,510	14,520	13,980	5.77	5.54	1,756,800	1,756,800	85,770	94,439	4,024	28,859	3,816	28,795	54	56
09/28/2019		8,390		6,550		12,910		6.58		2,160,000		58,602			2,943	27,331		56	7,970	8,390	6,000	6,290	15,110	15,120	5.96	6.24	846,720	839,520	92,127	96,982	3,851	27,880	4,017	27,990	50	49
09/29/2019		7,830		6,190		10,970		0.95		2,160,000		54,691			2,882	31,500		59	6,730	8,900	5,160	6,720	16,680	10,800	6.49	6.19	1,044,000	1,038,240	77,794	102,877	3,765	28,403	3,103	28,712	55	47
09/30/2019		7,980		6,270		12,400		1.72		2,157,120		55,738			2,984	28,858		54	6,400	8,140	4,950	6,250	15,620	14,920	5.83	6.03	1,385,280	1,372,320	73,979	94,092	3,767	28,913	3,532	28,384	55	53
MMAVG																																				
Min.		3,620		2,880		8,020	0	0		777,600		25,285			1,754	17,363		28	5,670	5,370	4,200	4,060	12,170	10,800	3	3	846,720	839,520	65,541	62,073	954	7,924	0	0	39	39
Max.		10,870		8,770		22,870	0	7		2,882,880		75,924			7,263	57,600		79	10,730	10,350	8,090	7,880	21,150	23,550	7	7	2,309,760	2,298,240	124,031	119,638	7,517	49,355	7,770	57,682	76	88
Total										41,362,560		1,318,580			47,264	431,772											43,961,760	44,321,760	3,056,034	2,963,786	84,605	648,916	76,837	591,754		
Average		7,551		5,960		14,570	0	2		1,880,116		52,743			4,297	39,252		56	8,813	8,547	6,683	6,442	15,480	15,276	5	5	1,465,392	1,477,392	101,868	98,793	4,453	34,153	4,044	31,145	50	50

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
10/01/2019	5.52	10.52	1.98	0.00	0.000	0.000	104,705		56.0	21.1	7.65	360	780	16,573	35,909		7.49	27.0	622	502	330	28,635	15,192		
10/02/2019	4.87	14.70	0.39	0.25	0.000	0.000	60,062		63.0	20.8	7.80	402	756	16,328	30,706		7.64	17.0	440	370	348	17,871	14,134		
10/03/2019	3.21	9.58	0.44	0.20	0.000	0.000	19,165		52.0	20.7	7.62	315	540	8,433	14,457		7.55	24.0	512	426	354	13,707	9,477		
10/04/2019	5.11	11.58	1.78	0.00	0.000	0.000	99,958		47.0	20.7	7.61	326	600	13,893	25,570		7.37	35.0	535	425	434	22,800	18,496		
10/05/2019	4.58	10.26	1.70	0.00	0.000	0.000	25,778		34.0	20.4	7.63		406		15,508		7.52	17.0	321	255		12,261			
10/06/2019	4.91	9.27	1.71	0.00	0.000	0.000	5,778		32.0	20.1	7.65	317	404	12,981	16,544		7.74	12.0	302	244	258	12,367	10,565		
10/07/2019	8.89	23.52	3.09	1.10	0.000	1.153	88,697		61.0	20.7	7.66	318	606	23,577	44,930		7.63	50.0	1078	830	420	79,926	31,140		
10/08/2019	5.66	8.93	2.03	0.00	0.000	0.000	69,748		55.0	19.8	7.55	338	496	15,955	23,413		7.70	7.0	268	213	210	12,651	9,913		
10/09/2019	5.48	9.49	2.29	0.00	0.000	0.000	90,527		48.0	18.8	7.52	465	720	21,252	32,906		7.62	7.5	366	292	338	16,727	15,448		
10/10/2019	5.40	9.49	2.27	0.00	0.000	0.000	73,454		42.0	18.7	7.63	416	746	18,735	33,597		7.66	17.0	455	368	336	20,491	15,132		
10/11/2019	5.05	10.05	2.08	0.00	0.000	0.000	76,403		47.0	18.6	6.70	215	456	9,055	19,205		7.61	20.0	405	326	188	17,057	7,918		
10/12/2019	5.09	10.82	2.04	0.00	0.000	0.000	65,560		60.0	19.8	6.83	189	370	8,023	15,707		7.59	21.0	281	226	186	11,929	7,896		
10/13/2019	4.96	8.68	1.86	0.00	0.000	0.000	3,106		60.0	19.6	6.61	168	316	6,950	13,072		7.10	22.0	279	235	214	11,541	8,852		
10/14/2019	5.07	9.10	2.08	0.00	0.000	0.000	78,498		60.0	19.6	7.76	336	484	14,207	20,465		7.81	10.0	338	272	258	14,292	10,909		
10/15/2019	5.01	8.59	2.86	0.00	0.000	0.000	93,465		40.0	19.6	7.55	425	758	17,758	31,672		7.48	19.0	500	394	348	20,892	14,541		
10/16/2019	6.36	37.87	2.86	2.40	0.000	2.994	117,678		33.0	19.2	7.52	405	952	21,482	50,496		7.66	16.0	444	367	324	23,551	17,186		
10/17/2019	13.43	12.56	3.76	0.10	0.000	0.000	33,397		53.0	16.7	7.73	270	344	30,242	38,530		7.77	2.5	142	109	140	15,905	15,681		
10/18/2019	6.76	10.83	2.89	0.00	0.000	0.000	67,324		46.0	18.7	7.72	234	388	13,193	21,875		7.75	13.0	299	229	212	16,857	11,952		
10/19/2019	5.79	9.23	2.97	0.00	0.000	0.000	53,320		46.0	18.7	7.55	327	380	15,790	18,350		7.68	14.0	280	219	194	13,521	9,368		
10/20/2019	6.02	9.82	3.02	0.10	0.000	0.000			46.0	18.7	7.67	354	422	17,773	21,187		7.79	11.0	234	191	185	11,748	9,288		
10/21/2019	6.12	11.07	3.02	0.00	0.000	0.000	78,967		47.0	18.7	7.82	329	566	16,792	28,889		7.89	8.0	229	189	210	11,688	10,719		
10/22/2019	6.28	16.21	4.44	0.60	0.000	0.000	89,859		41.0	18.8	7.53	333	606	17,441	31,739		7.69	17.0	294	243	228	15,398	11,942		
10/23/2019	7.88	17.27	3.39	0.01	0.000	0.000	39,241		57.0	18.0	7.52	309	448	20,307	29,442		7.65	17.0	370	310	288	24,316	18,927		
10/24/2019	5.93	9.67	2.81	0.00	0.000	0.000	57,997		39.0	18.4	7.67	372	488	18,398	24,135		7.62	13.0	323	269	314	15,974	15,529		
10/25/2019	5.89	10.49	3.25	0.01	0.000	0.000	75,888		49.0	18.4	7.51	540	582	26,526	28,589		7.41	20.0	380	316	320	18,667	15,719		
10/26/2019	5.73	9.77	3.05	0.00	0.000	0.000	31,519		43.0	16.1	7.62	363	428	17,347	20,453		7.42	24.0	346	454	377	16,535	18,016		
10/27/2019	10.58	23.29	4.02	1.50	0.000	1.337			44.0	16.1	7.71	206	286	18,177	25,236		7.78	7.0	204	156	168	18,000	14,824		
10/28/2019	8.65	12.42	4.38	0.01	0.000	0.000	97,960		47.0	15.4	7.59	309	546	22,292	39,389		7.61	8.0	240	196	213	17,314	15,366		
10/29/2019	7.49	10.64	4.53	0.10	0.000	0.000	102,767		48.0	15.4	7.54	288	482	17,990	30,109		7.60	8.0	261	209	236	16,304	14,742		
10/30/2019	7.40	10.69	4.10	0.10	0.000	0.000	85,383		49.0	12.4	7.59	306	444	18,885	27,402		7.67	7.0	227	173	197	14,010	12,158		
10/31/2019	9.64	17.68	5.61	0.60	0.000	0.186	22,397		60.0	16.9	7.69	204	358	16,401	28,782		7.72	6.0	179	143	140	14,391	11,256		
MMAVG	9.32																								
Min.	3.2	8.6	0.4	0.0		0.000	3,106		32.0	12.4	6.61	168	286	6,950	13,072		7.10	2.5	142	109	140	11541	7896		
Max.	13.4	37.9	5.6	2.4		2.994	117,678		63.0	21.1	7.82	540	952	30,242	50,496		7.89	50.0	1078	830	434	79926	31140		
Total	198.8	394.1	86.7	7.1		5.670	1,908,601																		
Average	6.4	12.7	2.8	0.2		0.183	65,814		48.55	18.57	7.54	325	521	17092	27041		7.62	16.0	360	295	266	18623	13743		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
10/01/2019	7.26	<0.10	13.6	7.6	6.4	626	295	5	21.6	6.3	5.0	0.00	0.00	0.00	0.00	1.08	50	0.26	12		98.222	98.256	7.88	9.9	25.6	20.6	7.35	6.5	15.8	11.8					
10/02/2019	6.90	<0.10	13.4	9.2	7.9	544	321	34	22.1	5.8	4.6	0.00	0.00	0.00	0.00						98.035	98.228	7.86	9.9	25.2	18.8	7.42	6.8	18.6	13.8	65.00	60.00	<10.00	34.00	<0.40
10/03/2019	7.30	<0.10	27.2	20.6	20.4	728	546	42	21.7	6.7	5.7	0.00	0.00	0.00	0.00						93.524	94.963	7.73	27.6	30.0	22.4	7.33	7.5	25.8	20.4					
10/04/2019	7.26	0.20	32.6	25.4	31.8	1,389	1,355	78	21.3	5.3	15.7	0.00	0.00	0.00	0.00						90.245	94.567	8.17	35.4	27.6	20.6	8.21	4.7	14.2	10.0					
10/05/2019	7.08	<0.10	13.4	9.6		512		54	19.9	7.2	6.2	0.00	0.00	0.00	0.00							96.700	8.33		21.8	15.8	7.99		15.6	10.8					
10/06/2019	7.11	0.00	13.4	9.4	8.4	549	344		19.7	6.8	4.4	0.00	0.00	0.00	0.00	0.54	22	0.36	15		97.350	96.683	7.73	8.4	21.6	15.6	7.45	6.0	15.4	11.4					
10/07/2019	7.16	<0.10	107.0	81.8	55.2	7,933	4,093	1	21.7	6.5	4.7	0.00	0.00	0.00	0.00	2.02	150	5.81	431		82.642	82.343	7.58	15.6	24.6	18.8	7.46	8.2	27.6	20.2					
10/08/2019	7.31	0.10	25.2	17.4	14.9	1,190	703	140	20.4	6.1	13.0	0.00	0.00	0.00	0.00	0.72	34	0.77	36		95.592	94.919	7.55	9.3	20.0	14.6	7.53	6.9	20.4	12.8					
10/09/2019	7.07	0.80	17.6	11.2	9.9	804	452	613	19.7	6.7	13.0	0.00	0.00	0.00	0.00						97.871	97.556	7.53	9.6	18.2	13.6	7.39	7.9	33.4	24.8					
10/10/2019	7.13	0.20	20.2	15.6	10.4	910	468	20	19.3	6.7	9.5	0.00	0.00	0.00	0.00						97.500	97.292	7.53	11.1	18.6	15.2	7.29	10.2	34.4	23.6					
10/11/2019	7.02	0.10	19.0	15.2	9.3	800	392	28	18.5	6.6	6.2	0.00	0.00	0.00	0.00						95.674	95.833	7.55	8.4	21.0	16.4	7.49	5.8	9.4	5.6					
10/12/2019	6.95	0.10	16.2	11.4	9.6	688	408	27	19.8	7.5	6.5	0.00	0.00	0.00	0.00						94.921	95.622	7.51	10.2	21.8	14.0	7.45	2.6	10.8	5.4					
10/13/2019	6.89	0.10	18.2	11.4	9.9	753	410	54	18.3	7.3	7.0	0.00	0.00	0.00	0.00	0.52	22	0.74	31		94.107	94.241	7.52	9.0	18.6	15.2	7.44	7.2	26.2	20.2					
10/14/2019	6.85	0.10	24.2	16.4	15.0	1,023	634	12	19.8	7.0	8.0	0.00	0.00	0.00	0.00	0.91	38	1.84	78		95.536	95.000	7.59	14.9	22.4	18.0	7.31	6.7	24.8	18.2					
10/15/2019	7.08	0.10	16.8	11.2	9.3	702	389	3	19.6	6.6	8.4	0.00	0.00	0.00	0.00	1.01	42	0.70	29		97.812	97.784	7.48	10.2	22.0	16.8	7.16	9.3	30.6	23.2					
10/16/2019	7.07	0.10	72.8	52.0	41.4	3,861	2,196	6	19.3	6.5	7.5	0.00	0.00	0.00	0.00						89.778	92.353	7.59	11.1	21.2	16.6	7.22	12.3	37.0	27.8					
10/17/2019	7.05	0.10	16.8	10.8	7.2	1,882	806	12	18.5	6.9	9.4	0.00	0.00	0.00	0.00						97.333	95.116	7.66	7.0	14.6	11.2	7.42	10.2	30.0	20.8					
10/18/2019	6.89	<0.10	16.6	11.6	8.6	936	485	26	17.0	6.9	5.5	0.00	0.00	0.00	0.00						96.325	95.722	7.08	7.2	18.8	13.6	7.24	7.5	29.0	22.2					
10/19/2019	6.75	0.05	15.6	13.0	5.6	753	270	28	17.6	7.1	3.0	0.00	0.00	0.00	0.00						98.287	95.895	7.46	7.3	4.2	2.2	7.08	8.1	26.4	18.4					
10/20/2019	7.09	0.05	13.6	8.8	6.2	683	311	0	17.6	7.1	2.1	0.00	0.00	0.00	0.00	0.47	24	0.17	9		98.249	96.777	7.63	6.7	15.0	11.4	7.43	8.4	28.4	21.6					
10/21/2019	7.17	<0.10	15.2	8.4	7.8	776	398	16	18.1	6.6	6.8	0.00	0.00	0.00	0.00	0.57	29	0.22	11		97.629	97.314	7.56	7.5	15.8	11.4	7.38	9.3	31.6	22.0					
10/22/2019	6.88	0.10	25.6	18.8	11.0	1,341	576	1	18.1	5.4	6.8	0.00	0.00	0.00	0.00	0.92	48	0.33	17		96.697	95.776	7.35	15.5	47.4	36.4	7.22	12.3	49.0	39.8					
10/23/2019	7.07	0.20	16.6	11.2	9.5	1,091	624	54	18.3	7.0	13.5	0.00	0.00	0.00	0.00						96.926	96.295	7.52	7.9	18.0	13.6	7.31	12.2	36.8	27.8					
10/24/2019	7.15	<0.10	15.2	9.6	12.8	752	633	11	18.1	7.1	9.0	0.00	0.00	0.00	0.00						96.559	96.885	7.67	8.4	18.6	12.6	7.36	12.2	31.4	22.8					
10/25/2019	7.06	0.10	13.4	12.0	5.8	658	285	10	18.4	6.9	7.5	0.00	0.00	0.00	0.00						98.926	97.698	7.60	7.8	25.4	13.6	7.08	8.4	27.0	20.2					
10/26/2019	6.98	0.00	12.2	10.6	5.9	583	282	201	18.7	7.5	4.4	0.00	0.00	0.00	0.00						98.375	97.150	7.57	7.3	16.4	11.4	7.13	8.4	28.4	22.0					
10/27/2019	6.99	0.00	41.2	29.4	33.6	3,635	2,965	3	18.6	7.4	5.0	0.00	0.00	0.00	0.00	0.77	68	2.93	259		83.689	85.594	7.63	7.6	17.8	12.6	7.21	12.0	31.4	22.8					
10/28/2019	6.98	<0.10	14.6	10.8	8.1	1,053	584	15	16.7	7.7	7.0	0.00	0.00	0.00	0.00	0.42	30	0.14	10		97.379	97.326	7.65	6.9	18.6	13.4	7.22	10.5	30.6	23.0					
10/29/2019	7.01	<0.10	14.4	8.6	7.2	900	450	12	17.4	7.6	5.9	0.00	0.00	0.00	0.00	0.43	27	0.12	7		97.500	97.012	7.69	6.8	18.4	12.8	7.22	9.9	29.2	22.4					
10/30/2019	7.01	<0.10	13.2	6.6	6.4	815	395	13	18.0	7.4	6.0	0.00	0.00	0.00	0.00						97.908	97.027	7.75	6.2	17.2	9.8	7.30	8.2	27.8	17.8					
10/31/2019	6.85	<0.10	14.4	9.0	9.8	1,158	788	17	18.5	7.0	6.2	0.00	0.00	0.00	0.00						95.196	95.978	7.72	4.8	14.2	10.4	7.24	7.4	26.4	18.8					
MMAVG														MMAVG		0.65																			
Min.	6.8	0.00	12	7	6	512	270	0	16.7	5.3	2			0.00	0.00	0.42	22	0.12	7		82.64	82.34	7.1	4.8	4.2	2.2	7.1	2.6	9.4	5.4	65.0	60	<10.00	34.0	<0.40
Max.	7.3	0.80	107	82	55	7933	4093	613	22.1	7.7	16			0.00	0.00	2.02	150	5.81	431		98.93	98.26	8.3	35.4	47.4	36.4	8.2	12.3	49.0	39.8	65.0	60	<10.00	34.0	<0.40
Total																																			
Average	7.0	<0.12	23	16	14	1291	762	17	19.1	6.8	7			0.00	0.00	0.80	45	1.11	73		95.53	95.48	7.6	10.5	20.7	15.1	7.4	8.5	26.6	19.4	65.0	60	<10.00	34.0	<0.40

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
10/01/2019		7,910		6,140		13,380		2.76		2,160,000		55,249						49	7,570	7,990	5,670	5,990	14,030	13,990	5.59	5.69	1,261,440	1,265,760	87,503	92,358	3,375	28,847	3,368	28,867	48	49
10/02/2019		8,050		6,400		12,260		1.04		2,157,120		56,227			410	4,211		55	5,960	7,500	4,530	5,630	16,820	14,690	5.01	5.54	2,014,560	2,020,320	68,893	86,694					55	57
10/03/2019		6,830		5,610		17,590		6.13		2,160,000		47,706			4,189	28,552		50	6,610	8,680	4,960	6,500	18,810	15,870	5.90	5.63	2,016,000	2,016,000	86,694	100,334	4,564	29,395	4,393	28,749	47	52
10/04/2019	2,000	6,770	1,230	4,830	1,200	10,890		3.07		1,036,800	13,970	47,287			2,599	28,612	25	41	6,990	8,760	5,150	6,150	12,720	13,860	5.75	5.28	1,059,840	1,054,080	80,799	101,259	3,234	28,695	3,534	28,691	50	46
10/05/2019	4,910	4,620	4,040	3,870	9,020	13,430	5.11	4.61	1,579,680	1,552,320	34,295	32,270					41	46	6,250	7,540	4,980	5,860	13,360	14,890	6.48	5.97	1,512,000	1,514,880	72,245	87,157					51	48
10/06/2019	5,120	4,840	4,100	3,890	9,350	12,420	4.62	4.90	779,040	878,400	35,762	33,806					41	48	7,130	7,810	5,470	5,940	14,220	14,590			1,064,160	1,188,000	82,417	90,278					46	51
10/07/2019	4,820	5,210	3,820	4,100	10,060	8,020	4.53	3.62	900,000	900,000	33,666	36,391					44	46	6,170	8,180	4,640	6,150	10,790	15,120	6.71	7.07	936,000	979,200	71,321	94,555					49	49
10/08/2019	5,950	6,390	4,730	5,020	14,150	12,160	4.40	3.20	1,366,560	1,369,440	41,559	44,633	3,069	28,791	3,427	28,777	47	47	6,290	8,350	4,790	6,320		18,250	8.00	6.00		1,464,480	72,708	96,520			4,401	28,918	48	53
10/09/2019	6,030	6,230	4,670	4,810	13,290	11,250	4.39	3.59	1,188,000	1,216,800	42,118	43,515	3,309	28,743	3,642	28,840	43	48	6,120	7,780	4,470	5,750		17,640	6.49	5.77		1,069,920	70,743	89,931			4,257	28,933	44	51
10/10/2019	5,790	7,220	4,590	5,740	13,820	14,350	2.70	3.57	1,080,000	1,080,000	40,442	50,430	3,331	29,043	3,689	28,768	45	39	6,810	7,480	5,110	5,640		15,230	7.22	6.69		1,044,000	78,718	86,463			4,582	35,859	47	48
10/11/2019	6,240	6,570	4,880	5,180	13,840	18,130	3.90	4.71	885,600	878,400	43,585	45,890	3,420	28,771	4,307	29,010	39	43	7,000	7,110	5,250	5,290		14,750	7.92	6.95		756,000	80,915	82,186			4,420	35,931	43	45
10/12/2019	6,340	6,360	5,040	4,960	14,490	23,640	4.07	4.76	1,648,800	1,621,440	44,283	44,423					39	41	6,790	8,950	5,010	5,480		13,810	7.13	7.13		1,732,320	78,487	103,455					44	37
10/13/2019	5,590	6,250	4,480	4,970	13,080	19,320	4.42	4.95	1,293,120	1,294,560	39,045	43,655					39	38	6,800	7,020	5,090	5,310		13,800	7.03	7.03		1,283,040	78,603	81,146					43	43
10/14/2019	5,300	4,770	4,420	3,880	11,570	21,960	3.46	4.39	1,103,040	1,092,960	37,019	33,317	2,964	28,832	4,989	28,982	40	42	6,810	6,930		5,300		20,400	6.99	6.97		1,058,400	78,718	80,106			4,897	28,782	44	46
10/15/2019	5,600	5,540	4,430	4,370	11,460	20,940	3.37	4.09	780,480	777,600	39,115	38,696	2,832	28,300	5,052	28,512	36	38	6,610	7,310	4,950	5,330		12,640	6.98	6.95		816,480	76,407	84,498			3,355	31,825	42	45
10/16/2019	5,930	6,140	5,140	5,100	20,440	11,700	4.50	4.80	938,880	912,960	41,420	42,886	3,913	28,237	4,086	27,938	47	41	6,040	7,450	4,620			16,620	6.60	6.40		1,190,880	69,818	86,116			3,941	28,429	50	34
10/17/2019	6,600	6,680	5,210	5,250	19,820	17,690	5.62	6.37	2,014,560	2,016,000	46,099	46,658	4,981	35,830	5,431	36,219	42	43	5,360	6,340	3,990	4,730		19,610	8.64	8.04		2,010,240	61,958	73,286			6,033	36,889	49	47
10/18/2019	6,770	7,340	5,560	5,800	13,480	10,610	3.13	2.89	1,483,200	1,424,160	47,287	51,268	4,093	35,704	3,778	35,920	36	37	6,370	6,710	4,840			17,450	6.96	6.58		1,431,360	73,632	77,563			4,857	33,371	42	45
10/19/2019	6,720	6,660	5,310	5,560	13,340	10,720	2.39	3.89	910,080	904,320	46,938	46,518					34	57	6,590	6,830	4,950	5,120		18,080	7.26	7.10		908,640	76,175	78,950					47	51
10/20/2019	6,410	6,820	5,030	5,360	12,840	16,170	2.82	3.46	786,240	773,280	44,772	47,636					39	41	6,200	6,450	4,610	4,790		19,040	7.09	7.07		803,520	71,667	74,557					50	51
10/21/2019	6,980	7,660	5,560	4,340	13,880	12,930	2.70	2.77	1,477,440	1,480,320	48,754	53,503	3,061	35,805	4,502	35,926	36	39	6,360	7,270	4,870	5,440		19,410	7.08	7.07		1,499,040	73,517	84,036			5,811	35,898	46	47
10/22/2019	6,670	7,550	5,290	5,980	14,430	13,920	2.89	2.79	1,072,800	1,051,200	46,588	52,735	4,493	37,337	4,172	35,935	36	34	6,460	7,380	4,860	5,490		18,880	5.80	5.65		1,098,720	74,673	85,307			5,669	36,000	46	43
10/23/2019	6,720	7,000	5,330	5,510	14,260	15,380	2.16	2.27	2,859,840	2,760,480	46,938	48,893	3,419	28,750	3,694	28,800	36	37	6,110	6,940	4,610	5,190		19,740	5.27	5.25		2,266,560	70,627	80,221			4,741	28,800	44	45
10/24/2019	6,370	7,090	5,000	5,500	13,640	10,930	5.19	2.55	1,101,600	1,095,840	44,493	49,522	3,304	29,048	3,162	29,072	36	40	6,140	6,520	4,610	4,920		17,900	6.74	6.87		1,203,840	70,974	75,366			4,257	28,517	49	52
10/25/2019	6,090	7,440	4,920	5,900	14,580	13,240	5.25	2.90	1,920,960	1,912,320	42,537	51,967	3,519	28,941	3,182	28,818	39	39	6,170	6,380	4,800	4,910		19,370	5.06	4.50		1,756,800	71,321	73,748			4,646	28,759	52	49
10/26/2019	5,870	6,570			14,120	14,630	5.00	2.72	1,023,840	1,023,840	41,000	45,890					38	40	6,030	6,050				20,070	3.68	4.44		1,038,240	69,702	69,933					50	50
10/27/2019	6,580	6,940	5,080	5,440	15,430	18,310	5.91	4.00	904,320	902,880	45,960	48,474					38	39	6,170	6,000	4,570	4,530		20,190	3.40	4.59		923,040	71,321	69,355					49	52
10/28/2019	7,530	7,690	6,000	6,070	15,880	17,550	4.31	3.12	1,393,920	1,404,000	52,595	53,713	3,608	28,034	4,306	28,200	29	39	5,990	6,040	4,560	4,500		19,790	4.06	4.33		1,225,440	69,240	69,818			4,750	28,777	50	51
10/29/2019	7,040	6,990	5,500	5,170	14,990	14,110	5.50	4.61	1,664,640	1,658,880	49,173	48,823	4,504	29,003	3,616	28,723	36	42	6,780	6,980	5,590	5,410		18,860	8.20	3.01		1,690,560	78,372	80,683			4,417	28,533	47	43
10/30/2019	6,840	7,420	5,350	5,870	15,050	15,320	4.56	5.22	1,281,600	1,288,800	47,776	51,827	3,373	26,602	3,441	26,732	32	36	6,360	6,280	4,800	4,760		19,130	3.60	4.80		1,535,040	73,517	72,592			4,402	28,591	49	49
10/31/2019	7,680	6,570	6,060	5,270	14,240	13,880	4.36	4.83	1,373,760	1,366,560	53,643	45,890	3,456	27,461	3,459	27,232	33	43	6,530	6,280	5,030	4,810		19,590	-4.72	4.48		1,512,000	75,482	72,592			4,473	28,775	41	45
MMAVG																																				
Min.	2,000	4,620	1,230	3,870	1,200	8,020	2	1	779,040	773,280	13,970	32,270	2,832	26,602	410	4,211	25	34	5,360	6,000	3,990	4,500	10,790	12,640	-5	3	936,000	756,000	61,958	69,355	3,234	28,695	3,355	28,429	41	34
Max.	7,680	8,050	6,060	6,400	20,440	23,640	6	6	2,859,840	2,760,480	53,643	56,227	4,981	37,337	5,431	36,219	47	57	7,570	8,950	5,670	6,500	18,810	20,400	9	8	2,016,000	2,266,560	87,503	103,455	4,564	29,395	6,033	36,889	55	57
Total									34,812,000	42,151,680	1,190,832	1,439,698	64,649	543,232	79,133	603,779											9,864,000	41,356,800	2,306,880	2,581,063	11,173	86,937	95,204	647,894		
Average	6,089	6,649	4,843	5,196	13,420	14,736	4	4	1,289,333	1,359,732	42,530	46,442	3,592	30,180	3,768	28,751	38	42	6,438	7,203	4,875	5,401	14,393	17,202	6	6	1,409,143	1,334,090	74,415	83,260	3,724	28,979	4,534	30,852	47	48

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
11/01/2019	8.21	13.21	4.80	0.00		0.000	66,095		58.0	17.6	7.77	60	340	4,108	23,280		7.42	10.0	235		123	16,091	8,422		
11/02/2019	7.19	12.91	0.69	0.00		0.000	60,408		33.0	16.7	7.72	122	392	7,316	23,506		7.37	12.0	245		117	14,691	7,016		
11/03/2019	7.10	11.51	4.07	0.00		0.000	2,142		30.0	16.8	7.77	234	324	13,856	19,185		7.81	3.0	126	89	116	7,461	6,869		
11/04/2019	7.15	12.25	3.86	0.00		0.000	56,964		43.0	16.8	7.55	312	406	18,605	24,210		7.61	15.0	280	230	228	16,697	13,596		
11/05/2019	7.14	12.40	4.24	0.00		0.000	67,329		47.0	17.2	7.68	240	344	14,291	20,484		7.69	20.0	372	302	240	22,152	14,291		
11/06/2019	6.77	11.11	3.71	0.00		0.000	68,961		40.0	17.0	7.86	279	748	15,753	42,233		7.49	25.0	146	106	330	8,243	18,632		
11/07/2019	7.45	15.41	3.60	0.33		0.000	37,566		44.0	16.2	7.53	480	606	29,824	37,653		7.51	28.0	345	295	264	21,436	16,403		
11/08/2019	6.28	13.02	3.59	0.00		0.000	70,878		28.0	16.1	7.64	270	330	14,141	17,284		7.56	13.0	276	217	222	14,456	11,627		
11/09/2019	5.98	10.49	3.45	0.00		0.000	29,317		19.0	15.7	7.64	252	244	12,568	12,169		7.48	8.0	252	204	219	12,568	10,922		
11/10/2019	6.39	12.59	3.76	0.00		0.000			26.0	15.4	7.62	186	216	9,912	11,511		7.59	10.0	209	177	189	11,138	10,072		
11/11/2019	6.59	10.55	3.57	0.00		0.000	99,376		39.0	15.6	7.65	252	372	13,850	20,445		7.76	5.0	217	180	189	11,926	10,388		
11/12/2019	5.90	11.31	3.12	0.00		0.000	64,965		43.0	15.4	7.58	318	444	15,648	21,847		7.72	8.0	232	191	230	11,416	11,317		
11/13/2019	5.48	10.45	3.44	0.00		0.000	43,870		16.0	15.2	7.55	329	340	15,036	15,539		7.69	7.5	259	214	239	11,837	10,923		
11/14/2019	5.41	11.22	3.39	0.00		0.000	84,462		23.0	14.8	7.48	375	450	16,920	20,304		7.62	7.0	262	218	276	11,821	12,453		
11/15/2019	5.93	10.98	2.91	0.00		0.000	62,753		31.0	14.8	6.50	174	258	8,605	12,760		7.61	11.0	267	225	216	13,205	10,683		
11/16/2019	5.26	8.09	3.74			0.000	30,877		40.0	14.2	6.87	183	216	8,028	9,476		7.51	10.0	220	180	144	9,651	6,317		
11/17/2019	5.36	12.50	3.29	0.00		0.000	6,525		43.0	14.1							7.73	8.0	216	177	212	9,656	9,477		
11/18/2019	5.92	11.75	3.29	0.00		0.000	50,097		30.0	13.8	7.54	441	456	21,773	22,514		7.62	6.0	219	184	197	10,813	9,726		
11/19/2019	7.32	16.77	3.55	0.46		0.000	59,270		40.0	14.1	7.67	384	488	23,443	29,792		7.72	5.5	220	180	221	13,431	13,492		
11/20/2019	6.21	16.77	3.39	0.57		0.000	96,717		45.0	14.3	7.65	276	388	14,294	20,095		7.48	6.0	177	160	195	9,167	10,099		
11/21/2019	5.84	9.75	3.65			0.000	65,916		31.0	13.9	7.53	167	538	8,134	26,204		7.47	6.0	220	195	165	10,715	8,036		
11/22/2019	6.22	12.01	1.57	0.05		0.000	76,315		46.0	13.5	7.66	128	474	6,640	24,589		7.50	6.5	259	214	147	13,436	7,626		
11/23/2019	5.65	9.96	3.45	0.33		0.000	22,897		31.0	13.1	7.82	150	190	7,068	8,953		7.59	6.0	242	204	228	11,403	10,744		
11/24/2019	11.71	27.50	6.09	1.30		0.685			37.0	12.2	7.83	143	212	13,966	20,704		7.84	4.5	147	121	137	14,356	13,380		
11/25/2019	8.98	12.01	7.58	0.00		0.000	73,301		46.0	11.9	7.71	309	380	23,142	28,459		7.77	4.0	185	151	183	13,855	13,705		
11/26/2019	8.10	11.62	4.97	0.00		0.000	62,096		39.0	12.1	7.82	272	394	18,375	26,616		7.75	4.0	183	155	179	12,362	12,092		
11/27/2019	8.47	18.03	4.76	0.22		0.000	64,456		35.0	12.8	7.68	81	408	5,722	28,821		7.52	4.0	196	164	105	13,845	7,417		
11/28/2019	7.65	12.48	4.60	0.00		0.000	2,511		41.0	12.9	7.73	69	240	4,402	15,312		7.64	8.0	189	165	93	12,058	5,933		
11/29/2019	7.00	11.79	4.17	0.00		0.000	48,615		31.0	12.7	7.67	216	278	12,610	16,230		7.57	7.0	198	171	246	11,559	14,361		
11/30/2019	6.68	11.20	3.98	0.00		0.000	37,743		18.0	12.5	7.65	221	234	12,312	13,036		7.64	8.0	172	156	252	9,582	14,039		
MMAVG	8.52																								
Min.	5.3	8.1	0.7	0.0		0.000	2,142		16.0	11.9	6.50	60	190	4,108	8,953		7.37	3.0	126	89	93	7461	5933		
Max.	11.7	27.5	7.6	1.3		0.685	99,376		58.0	17.6	7.86	480	748	29,824	42,233		7.84	28.0	372	302	330	22152	18632		
Total	205.3	381.6	114.3	3.3		0.685	1,512,422																		
Average	6.8	12.7	3.8	0.1		0.023	54,015		35.77	14.65	7.60	239	369	13460	21145		7.61	9.2	226	187	197	12701	11002		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
11/01/2019	6.92	0.10	13.4		6.5	918	445	34	18.4	6.0	8.6	0.00	0.00	0.00	0.00						89.167	96.059	7.29	6.7	18.6		6.96	6.4	24.6						
11/02/2019	6.80	0.00	13.8		5.9	828	354	31	17.3	7.5	3.5	0.00	0.00	0.00	0.00						95.164	96.480	7.46	8.1	17.8		6.97	6.7	26.0						
11/03/2019	6.80	0.00	11.8	7.8	6.5	699	385	0	17.0	7.7	535.0	0.00	0.00	0.00	0.00						97.222	96.358	7.51	7.8	19.2	13.2	7.11	7.8	25.8	19.4					
11/04/2019	6.80	<0.10	13.2	9.0	5.7	787	340	9	16.9	7.8	6.5	0.00	0.00	0.00	0.00	0.40	24	0.12	7	0.18	98.173	96.749	7.45	6.5	18.4	13.2	7.15	6.6	21.6	16.2					
11/05/2019	6.93	0.10	14.2	9.0	6.2	846	369	12	17.1	7.7	8.7	0.00	0.00	0.00	0.00						97.417	95.872	7.58	7.6	20.6	15.4	7.18	7.2	26.4	19.0	75.00	92.00	0.76	25.00	<0.20
11/06/2019	7.10	0.10	4.6	16.8	5.0	260	282	5	17.1	7.6	7.4	0.00	0.00	0.00	0.00						98.208	99.385	7.54	6.7	10.8	10.4	7.28	4.8	49.4	48.2					
11/07/2019	6.84	0.00	10.2	10.4	6.9	634	429	21	16.9	7.4	3.6	0.00	0.00	0.00	0.00						98.563	98.317													
11/08/2019	6.89	<0.10	13.0	7.4	6.9	681	361	42	16.4	7.4	4.6	0.00	0.00	0.00	0.00						97.444	96.061	8.09	7.2	19.6	15.2	7.95	6.7	22.6	16.2					
11/09/2019	6.82	<0.10	7.0	6.2	6.1	349	304	42	15.7	8.0	4.4	0.00	0.00	0.00	0.00						97.579	97.131					7.94	6.0	24.2	16.4					
11/10/2019	6.76	<0.10	10.6	8.4	6.0	565	320	66	15.7	7.8	3.6	0.00	0.00	0.00	0.00						96.774	95.093	8.08	7.8	19.0	16.6	7.97	5.1	18.2	15.6					
11/11/2019	6.79	<0.10	13.4	9.2	6.2	736	341	9	16.1	7.5	4.3	0.00	0.00	0.00	0.00	0.41	23	0.18	10	0.13	97.540	96.398	7.58	6.6	18.2	11.4	7.09	5.6	23.0	16.4					
11/12/2019	6.91	0.10	13.2	9.0	6.0	650	295	8	16.2	7.2	7.1	0.00	0.00	0.00	0.00						98.113	97.027	7.67	7.5	17.6	13.0	7.06	5.7	21.6	15.2					
11/13/2019	6.89	0.20	10.0	6.2	6.5	457	297	8	14.8	7.8	17.6	0.00	0.00	0.00	0.00						98.024	97.059	7.68	18.6	38.0	32.0	7.06	5.7	19.8	14.4					
11/14/2019	6.86	0.10	11.0	6.6	6.5	496	293	8	14.7	8.1	5.9	0.00	0.00	0.00	0.00						98.267	97.556					7.08	5.9	19.2	14.2					
11/15/2019	6.70	0.10	11.8	7.6	5.2	584	257	8	14.9	7.8	6.1	0.00	0.00	0.00	0.00						97.011	95.426	7.72	13.2	17.8	15.2	7.10	9.4	18.6	13.2					
11/16/2019	6.72	0.10	12.4	10.0	6.3	544	276	15	14.4	8.4	63.0	0.00	0.00	0.00	0.00						96.557	94.259	7.60	8.8	12.6	9.8	7.40	10.6	18.6	14.4					
11/17/2019	6.59	0.00	11.6	7.8	6.0	519	268	3	14.7	8.1	6.0	0.00	0.00	0.00	0.00								7.45	7.2	17.2	11.4	7.02	5.8	18.8	13.8					
11/18/2019	6.77	<0.10	11.2	8.2	6.9	553	341	8	14.5	8.0	5.0	0.00	0.00	0.00	0.00	0.38	19	0.09	4	0.10	98.435	97.544	7.39	7.5	18.4	12.6	6.93	5.6	18.4	13.0					
11/19/2019	6.70	0.10	13.8	7.0	6.8	842	415	69	14.7	7.2	8.7	0.00	0.00	0.00	0.00						98.229	97.172	7.55	8.1	17.8	11.4	7.12	6.9	22.2	14.6					
11/20/2019	6.90	0.10	9.2	8.0	5.9	476	306	36	14.3	8.1	10.6	0.00	0.00	0.00	0.00						97.862	97.629	8.11	6.3	13.8	12.4	8.05	6.8	32.4	19.6					
11/21/2019	6.73	<0.10	13.4	11.4	5.3	653	258	11	14.3	8.3	4.4	0.00	0.00	0.00	0.00						96.826	97.509	7.48	8.1	11.2	12.2	6.89	7.6	28.4	23.4					
11/22/2019	6.67	0.01	13.6	8.8	10.8	705	560	0	14.6	8.1	3.1	0.00	0.00	0.00	0.00						91.563	97.131	6.91		158.4	126.0	7.18	11.5	25.6	18.6					
11/23/2019	6.70	0.01	13.6	9.8	5.8	641	273	5	14.3	8.2	3.5	0.00	0.00	0.00	0.00						96.133	92.842	6.82	6.1	22.0	13.0	6.91	9.9	23.2	17.8					
11/24/2019	6.67	0.01	30.2	20.0	17.4	2,949	1,699	1	14.3	8.6	3.8	0.00	0.00	0.00	0.00						87.832	85.755	7.56	6.6	18.4	13.8	7.19	8.0	23.6	18.2					
11/25/2019	6.80	0.10	12.8	9.0	6.2	959	464	22	12.1	8.5	7.7	0.00	0.00	0.00	0.00	0.37	28	0.42	31	0.06	97.994	96.632	7.41	6.9	1.8	1.4	7.09	6.8	23.4	16.8					
11/26/2019	6.65	0.10	11.6	8.4	5.3	784	358	15	13.1	7.5	8.8	0.00	0.00	0.00	0.00						98.051	97.056	7.43	6.3	16.6	12.2	7.28	6.4	22.4	17.4					
11/27/2019	6.71	0.10	14.6	12.2	6.1	1,031	431	10	13.9	8.2	6.6	0.00	0.00	0.00	0.00						92.469	96.422	7.45	7.0	19.0	14.6	7.03	5.9	24.2	19.0					
11/28/2019	6.77	0.01	11.8	9.4	6.0	753	383	2	13.9	8.1	2.5	0.00	0.00	0.00	0.00						91.304	95.083	7.53	6.7	14.0	12.0	7.10	6.5	25.0	19.2					
11/29/2019	6.81	0.01	11.0	15.6	5.2	642	304	12	13.6	8.3	2.3	0.00	0.00	0.00	0.00						97.593	96.043	7.47	7.0	15.6	12.0	7.31	10.0	23.2	19.6					
11/30/2019	6.92	0.01	13.2	4.6	4.7	735	262	13	13.4	7.9	3.0	0.00	0.00	0.00	0.00						97.873	94.359	7.51	9.5	15.0	12.4	7.06	5.8	22.0	14.6					
MMAVG													MMAVG		0.65																				
Min.	6.6	0.00	5	5	5	260	257	0	12.1	6.0	2			0.00	0.00	0.37	19	0.09	4	0.06	87.83	85.75	6.8	6.1	1.8	1.4	6.9	4.8	18.2	13.0	75.0	92	0.76	25.0	<0.20
Max.	7.1	0.20	30	20	17	2949	1699	69	18.4	8.6	535			0.00	0.00	0.41	28	0.42	31	0.18	98.56	99.39	8.1	18.6	158.4	126.0	8.1	11.5	49.4	48.2	75.0	92	0.76	25.0	<0.20
Total																																			
Average	6.8	<0.07	13	9	7	742	389	10	15.2	7.8	26			0.00	0.00	0.39	23	0.20	13	0.12	96.32	96.08	7.5	7.9	22.5	17.7	7.2	7.0	23.9	17.9	75.0	92	0.76	25.0	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
11/01/2019	7,300	6,910	5,690	5,850	14,770	16,350	5.48	4.47	2,226,240	2,430,720	50,989	48,265	3,481	28,787	3,729	28,938	38	36	6,060	6,430	4,060	4,840		17,780	4.73	4.09		2,062,080	70,049	74,326			4,202	28,695	50	47
11/02/2019	6,820	6,750	5,340	5,260	13,860	19,300	3.08	3.90	1,548,000	1,584,000	47,636	47,147					35	40	6,300	6,230	4,720	4,630		19,070	4.88	4.95		1,224,000	72,823	72,014					48	48
11/03/2019	6,640	4,500	5,230	3,510	13,770	16,020	2.87	3.36	1,123,200	1,123,200	46,379	31,431					38	60	6,320	6,420	4,730	4,810		18,210	4.59	4.82		1,267,200	86,694	74,210					49	48
11/04/2019	6,320	7,170	4,910	5,550	15,090	14,760	3.95	4.08	1,419,840	1,408,320	44,144	50,081	3,460	28,754	3,705	28,868	40	39	6,040	5,880	4,510	4,360		19,870	4.29	5.76		1,432,800	69,818	67,968			4,760	28,723	50	51
11/05/2019	11,110	7,140			15,520	17,560	4.23	4.17	1,424,160	1,435,680	77,601	49,871	3,476	28,648	3,695	28,789	22	38	6,220	6,260				18,970	4.03	5.58		1,380,960	71,898	72,361			4,568	28,870	50	50
11/06/2019	6,560	7,260	5,200	5,750	15,250	15,540	4.03	4.12	1,376,640	1,373,760	45,820	50,709	3,588	28,700	3,796	28,817	38	39	6,640	6,170	5,090	4,740		19,020	3.99	5.75		1,375,200	76,753	71,321			4,537	28,603	48	50
11/07/2019	6,920	7,160	5,600	6,050	13,520	15,010	3.57	3.88	1,329,120	1,211,040	48,334	50,011	3,514	28,723	3,533	28,894	38	39	6,730	6,490	5,410	4,930		17,600	4.58	5.78		1,324,800	77,794	75,019			4,208	28,671	45	46
11/08/2019	6,180	6,310	5,160	5,530	15,680	13,660	3.83	3.81	1,296,000	1,296,000	43,166	44,074	3,645	28,604	3,598	28,773	41	44	5,040	6,140	4,940	4,930		19,300	6.12	6.30		1,728,000	58,259	70,974			4,649	28,881	60	49
11/09/2019	6,100	6,800	5,050	5,450	15,780	13,830	3.21	2.61	1,170,720	1,077,120	42,607	47,496					41	41	6,180	5,880	5,350	4,540		16,810	5.72	6.00		1,298,880	71,436	67,968					60	65
11/10/2019	5,490	6,800	4,450	5,400	15,850	16,600	4.09	4.06	1,036,800	1,036,800	38,346	47,496					40	40	6,190	6,190	4,750	4,700		18,110	4.88	5.11		1,094,400	71,552	71,552					55	52
11/11/2019	6,190	6,720	4,900	5,260	15,950	16,500	3.93	3.98	676,800	676,800	43,236	46,938	3,829	28,872	3,961	28,696	37	39	6,500	6,260	4,910	4,730		18,310	5.37	4.79		1,454,400	75,135	72,361			4,393	28,771	51	51
11/12/2019	5,840	7,020	4,550	5,480	15,320	15,510	4.25	4.07	892,800	892,800	40,791	49,033	3,756	28,700	4,025	28,799	38	36	6,320	6,250	4,760	4,670		17,610	5.40	3.98		1,235,520	73,054	72,245			4,124	28,080	52	51
11/13/2019	5,620	6,510	4,600	5,190	14,340	10,690	3.35	2.78	907,200	907,200	39,254	45,471	3,671	28,790	14,767	28,929	37	37	6,190	5,960	4,700	4,320		17,380	6.72	6.32		1,238,400	71,552	68,893			4,157	28,677	53	54
11/14/2019	5,110	5,780	4,550	4,870	15,570	14,390	3.59	3.02	835,200	832,320	35,692	40,372	3,612	28,851	4,084	28,753	41	42	5,900	5,880	4,570	4,520		16,960	6.90	6.60		1,094,400	68,200	67,968			4,053	28,656	59	58
11/15/2019	5,580	6,300	4,540	5,260	15,070	17,410	5.80	6.30	823,680	809,280	38,975	44,004	3,504	28,584	3,495	28,763	36	35	6,430	6,200	5,190	4,790			4.60	5.90		1,172,160	74,326	71,667			4,111	28,609	51	52
11/16/2019	5,860	6,520	4,950	5,170	15,180	6,870	7.64	7.67	905,760	917,280	40,931	45,541					34	34	6,200	6,100	4,760	4,700		17,060	6.84	6.93		1,234,080	71,667	70,511					50	48
11/17/2019	6,600	6,420	5,310	5,370	14,830	19,410	7.77	7.81	974,880	970,560	46,099	44,842					32	36	6,220	6,500	4,970	5,040		18,030	6.64	6.74		1,296,000	71,898	75,135					48	46
11/18/2019	4,650	5,280	4,140	5,160	13,870	10,520	6.30	6.70	825,120	840,960	32,479	36,879	3,210	26,821	3,479	27,875	47	44	5,900	5,790	4,940	4,780		16,790	6.00	6.10		1,275,840	68,200	66,928			4,885	34,889	51	52
11/19/2019	6,250	6,320	5,070	5,100	13,860	9,910	3.87	4.96	1,818,720	1,755,360	43,655	44,144	3,214	27,493	3,185	27,570	38	35	6,050	6,010	4,760	4,710		16,440	2.62	4.11		2,280,960	69,933	69,471			3,932	28,677	50	50
11/20/2019	6,070	5,640	4,870	4,530	17,880	12,250	6.70	6.70	586,080	594,720	42,397	39,394	5,014	28,800	3,197	28,800	33	39	5,600	4,940	4,320	4,090		18,750	6.20	6.70		889,920	64,732	57,103			4,719	29,794	48	57
11/21/2019	5,980	6,020	4,800	4,790	17,050	15,750	7.32	7.21	597,600	600,480	41,769	42,048	4,367	28,851	3,870	28,747	33	33	5,210	5,020	3,930	3,760		19,380	6.03	7.10		892,800	60,224	58,027			4,644	28,732	48	50
11/22/2019	5,510	6,910	4,510	5,550	17,490	15,330	6.70	6.00	629,280	581,760	38,486	48,265	4,713	27,487	4,945	27,656	36	29	5,190	4,950	3,970	3,910		19,010	5.10	6.20		1,576,800	59,992	57,218			4,657	28,697	52	55
11/23/2019	5,550	5,200	3,860	3,580	15,340	19,720	7.30	7.31	432,000	432,000	38,765	36,321					29	33	5,820	5,500	4,110	3,700		18,310	6.34	6.65		995,040	67,275	63,576					55	58
11/24/2019	5,840	7,180	4,650	5,740	17,700	20,910	6.46	6.57	1,094,400	1,094,400	40,791	50,151					34	28	5,970	5,980	4,590	4,610		17,300	4.36	6.05		2,160,000	69,009	69,124					54	54
11/25/2019	6,090	6,740	4,940	5,440	19,320	22,220	6.93	7.62	989,280	997,920	42,537	47,077	4,475	30,314	5,274	30,244	33	33	6,000	5,740	4,640	4,490		17,160	6.83	7.23		2,658,240	69,355	66,350			3,755	26,241	48	52
11/26/2019	6,640	5,800	5,400	4,780	18,590	17,450	6.40	7.00	941,760	828,000	46,379	40,512	4,722	28,645	4,295	28,786	30	35	6,010	6,900	4,780	5,460		17,540	5.00	5.90		2,125,440	69,471	79,759			4,176	28,548	52	46
11/27/2019	5,960	5,790	4,920	4,780	17,480	11,240	7.03	7.18	758,880	763,200	41,629	40,442	4,414	29,736	3,822	28,829	34	35	6,260	6,180	4,870	4,960		17,180	6.08	6.29		2,635,200	72,361	71,436			4,111	28,693	48	49
11/28/2019	5,180	5,150	4,280	4,240	15,630	15,470	6.70	6.80	581,760	652,320	36,181	35,971	3,940	28,603	3,346	28,802	39	39	5,960	5,750	4,660	4,510		18,330	6.20	6.40		1,713,600	68,893	66,466			4,395	28,748	50	57
11/29/2019	5,400	5,360	4,380	4,570	17,840	22,430	7.68	7.58	699,840	698,400	37,718	37,438	4,258	28,621	5,392	28,822	33	37	6,410	5,600	5,220	5,020		18,860	4.77	6.06		1,414,080	74,095	64,732			4,532	28,812	52	57
11/30/2019	4,610	4,980	3,740	3,610	18,050	15,990	7.91	7.90	659,520	650,880	32,200	34,784					39	36	6,040	6,380	4,670	4,500		19,210	5.98	6.63		1,317,600	69,818	73,748					51	49
MMAVG																																				
Min.	4,610	4,500	3,740	3,510	13,520	6,870	3	3	432,000	432,000	32,200	31,431	3,210	26,821	3,185	27,570	22	28	5,040	4,940	3,930	3,700		16,440	3	4		889,920	58,259	57,103			3,755	26,241	45	46
Max.	11,110	7,260	5,690	6,050	19,320	22,430	8	8	2,226,240	2,430,720	77,601	50,709	5,014	30,314	14,767	30,244	47	60	6,730	6,900	5,410	5,460		19,870	7	7		2,658,240	77,794	79,759			4,885	34,889	60	65
Total									30,581,280	30,473,280	1,284,986	1,316,208	81,863	601,384	93,193	603,150												44,848,800	2,102,626	2,080,431			91,568	607,067		
Average	6,132	6,281	4,813	5,063	15,848	15,620	5	5	1,019,376	1,015,776	42,833	43,874	3,898	28,637	4,438	28,721	36	38	6,063	5,999	4,720	4,612		18,081	5	6		1,494,960	70,088	69,348			4,360	28,908	51	52

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
12/01/2019	6.61	11.59	4.07	1.10		0.000	2,013		11.0	12.6	7.80	170	202	9,372	11,136		7.84	7.0	170	146	174	9,372	9,592		
12/02/2019	6.54	10.96	4.28	1.00		0.000			30.0	12.7	7.70	210	246	11,454	13,418		7.62	6.0	182	145	182	9,927	9,927		
12/03/2019	6.64	10.79	3.80	0.20		0.000			29.0	12.2	7.72	303	442	16,779	24,477		7.68	9.5	239	202	234	13,235	12,958		
12/04/2019	5.47	10.35	3.87	0.00		0.000	29,727		28.0	12.4	7.51	443	528	20,210	24,087		7.69	8.0	198	176	212	9,033	9,671		
12/05/2019	6.67	11.12	4.13	0.00		0.000	50,005		39.0	12.9	7.84	200	244	11,126	13,573		7.69	15.0	301	271	294	16,744	16,355		
12/06/2019	7.90	12.71	4.03	0.00		0.000	53,677		32.0	13.3	6.65	282	342	18,580	22,533		7.10	12.0	467	396	222	30,769	14,627		
12/07/2019	6.25	11.09	3.70	0.50		0.000	9,758		32.0	12.1	7.44	254	320	13,240	16,680		7.61	19.0	418	354	153	21,788	7,975		
12/08/2019	6.45	10.92	3.98	0.10		0.000			6.0	11.7	7.63	423	1040	22,754	55,945		7.73	16.0	311	266	234	16,730	12,588		
12/09/2019	11.25	24.50	6.24	0.82		2.938	46,920		40.0	12.8	7.75	176	276	16,513	25,896		7.78	8.0	188	151	147	17,639	13,792		
12/10/2019	22.86	26.50	16.84	1.10		6.947			48.0	9.2	7.94	75	130	14,299	24,785		7.82	4.0	113	88	96	21,544	18,303		
12/11/2019	18.21	20.52	11.68	0.07		0.245	41,174		30.0	9.7	7.89	189	266	28,704	40,398		7.86	3.0	94	73	87	14,276	13,213		
12/12/2019	13.61	27.99	10.18	0.00		0.000	87,732		27.0	11.8	7.62	326	506	37,003	57,435		7.72	4.0	97	87	105	11,010	11,918		
12/13/2019	11.40	37.28	11.01	1.45		3.096	62,952		32.0	11.2	7.66	205	144	19,491	13,691		7.69	6.0	78	51	147	7,416	13,976		
12/14/2019	29.78	37.38	11.25	1.32		8.707			42.0	6.1	7.90	60	80	14,902	19,869		7.99	6.0	76	57	99	18,876	24,588		
12/15/2019	21.00	21.41	0.00	0.00		0.387			40.0	9.5	7.80	113	136	19,791	23,819		7.77	4.0	133	90	96	23,294	16,813		
12/16/2019	16.09	19.94	11.77	0.02		0.000	61,924		28.0	10.2							7.76	2.8	108	87	143	14,493	19,189		
12/17/2019	13.88	17.06	10.81	0.40		0.000			29.0	10.7	7.80	179	240	20,721	27,782		7.81	2.0	105	87	96	12,155	11,113		
12/18/2019	12.52	16.36	9.59	0.00		0.000	67,348		28.0	10.8	7.74	256	276	26,731	28,819		7.78	3.0	112	108	113	11,695	11,799		
12/19/2019	11.07	15.84	8.70	0.00		0.000	56,207		18.0	10.5	7.77	234	246	21,604	22,712										
12/20/2019	10.40	14.63	7.70	0.00		0.000	46,440		21.0	10.2	7.01	311	162	26,975	14,051		7.61	5.0	98	76	149	8,500	12,924		
12/21/2019	9.82	14.33	7.19	0.00		0.000	8,511		12.0	10.2	6.99	155	134	12,694	10,974		7.66	4.0	69	50	167	5,651	13,677		
12/22/2019	9.74	14.39	6.97	0.00		0.000	4,946		40.0	10.2	7.67	146	138	11,860	11,210		7.79	3.0	115	91	150	9,342	12,185		
12/23/2019	10.00	14.70	6.95	0.00		0.000	69,419		33.0	10.1	7.47	251	308	20,933	25,687		7.65	4.0	154	130	126	12,844	10,508		
12/24/2019	9.58	14.41	6.42	0.00		0.000	61,673		34.0	9.8							7.49	5.0	132	109	7	10,546	559		
12/25/2019	8.40	14.41	6.15	0.00		0.000	1,150		32.0	10.0	7.82	233	194	16,323	13,591		7.66	6.0	143	129	123	10,018	8,617		
12/26/2019	8.53	12.44		0.00		0.000	93,973		36.0	10.5	7.76	336	268	23,903	19,066		7.65	7.0	190	159	190	13,517	13,517		
12/27/2019	8.87	15.38	0.00	0.00		0.000	33,403		46.0	10.9	7.70	130	168	9,617	12,428		7.62	7.0	141	116	180	10,431	13,316		
12/28/2019	8.91	13.02	6.07	0.00		0.000	23,415		33.0	9.8	7.68	146	256	10,849	19,023		7.58	7.0	198		144	14,713	10,701		
12/29/2019	8.52	16.17	6.27	0.00		0.000	5,666		26.0	10.0	8.00						7.61	7.0	152	131	131	10,801	9,308		
12/30/2019	11.05	15.07	7.66	0.45		0.000	3,695		31.0		7.87	245	190	22,578	17,510		7.77	3.0	136	121	177	12,533	16,312		
12/31/2019	10.49	14.91	7.87	1.30		0.000	29,318		35.0	10.3	7.51	129	136	11,286	11,898		7.57	3.5	126	105	158	11,023	13,823		
MMAVG	8.50																								
Min.	5.5	10.4	0.0	0.0		0.000	1,150		6.0	6.1	6.65	60	80	9,372	10,974		7.10	2.0	69	50	7	5651	559		
Max.	29.8	37.4	16.8	1.5		8.707	93,973		48.0	13.3	8.00	443	1040	37,003	57,435		7.99	19.0	467	396	294	30769	24588		
Total	348.5	528.2	209.2	9.8		22.320	951,046																		
Average	11.2	17.0	7.0	0.3		0.720	39,627		30.58	10.81	7.64	221	272	18225	22232		7.69	6.6	168	140	151	13664	12795		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
12/01/2019	6.77	0.01	12.6	8.0	6.5	695	358	12	13.4	8.3	2.9	0.00	0.00	0.00	0.00						96.176	93.762	7.45	7.6	16.2	11.2	7.24	7.9	24.8	18.4					
12/02/2019	6.90	<0.10	12.0	8.0	6.6	655	360	6	12.8	8.2	5.5	0.00	0.00	0.00	0.00	0.30	16	0.13	7	0.05	96.857	95.122	7.28	7.8	17.8	12.6									
12/03/2019	6.67	<0.10	11.8	7.6	6.0	653	332	13	12.5	8.2	5.0	0.00	0.00	0.00	0.00						98.020	97.330	7.38	7.5	16.4	12.2	6.96	6.3	20.0	16.2					
12/04/2019	6.78	0.10	12.4	9.8	7.7	566	351	14	12.8	8.1	7.7	0.00	0.00	0.00	0.00						98.262	97.652	7.35	8.1	14.2	11.8	6.90	4.6	12.0	9.2					
12/05/2019	6.79	0.10	10.6	8.6	4.5	590	250	7	12.8	8.1	6.0	0.00	0.00	0.00	0.00						97.750	95.656	7.35	8.4	15.6	12.6	6.92	5.2	11.8	11.2					
12/06/2019	6.78	0.10	13.6	11.6	11.4	896	751	20	12.7	8.3	3.8	0.00	0.00	0.00	0.00						95.957	96.023	7.15	13.8	21.8	16.8	6.69	9.1	15.8	12.2					
12/07/2019	6.73	0.10	12.2	10.0	7.9	636	412	15	12.7	8.3	5.2	0.00	0.00	0.00	0.00						96.890	96.188	7.40	9.0	23.8	19.0	7.08	5.5	15.4	11.8					
12/08/2019	6.77	0.01	13.4	9.6	6.9	721	371	6	12.3	8.5	2.8	0.00	0.00	0.00	0.00						98.369	98.712	7.44	16.1	26.4	21.0	7.18	6.3	14.2	10.4					
12/09/2019	6.85	<0.10	16.8	13.0	13.7	1,576	1,285	27	12.8	8.2	5.3	0.00	0.00	0.00	0.00	0.48	45	1.95	183	0.06	92.216	93.913	7.61	31.2	49.2	39.8	7.17	4.7	9.8	7.6					
12/10/2019	6.90	1.70	41.6	30.2	42.6	7,931	8,122	2420	9.9	8.5	23.3	0.00	0.00	0.00	0.00						43.200	68.000	7.62	4.1	18.0	13.2	7.24	8.1	11.8	8.0					
12/11/2019	6.94	0.50	23.2	16.0	12.5	3,523	1,898	980	10.2	9.2	11.9	0.00	0.00	0.00	0.00						93.386	91.278	7.58	8.0	20.4	14.8	6.79	5.0	14.6	11.6					
12/12/2019	6.69	0.10	9.4	7.8	6.8	1,067	772	19	10.8	8.4	3.2	0.00	0.00	0.00	0.00						97.914	98.142	7.34	9.0	15.6	12.0	6.72	5.4	12.4	10.6	42.00	110.00	0.82	12.00	<0.20
12/13/2019	6.46	<0.10	5.6	0.6	10.1	532	960	12	11.8	7.1	3.6	0.00	0.00	0.00	0.00						95.073	96.111	8.03	7.5	9.0	3.2	8.07	8.7	7.4	4.2					
12/14/2019	6.53	1.00	27.0	18.2	18.0	6,706	4,471	2420	8.2	9.5	18.1	0.00	0.00	0.00	0.00						70.000	66.250					7.95	5.6	14.6	10.2					
12/15/2019	7.95	1.10	18.4	12.8	13.1	3,223	2,294	2	9.8	8.9	20.0	0.00	0.00	0.00	0.00						88.407	86.471	7.43	3.1	8.6	6.8	7.02	11.1	25.4	19.0					
12/16/2019	6.71	<0.10	11.2	7.8	8.0	1,503	1,074	19	10.3	8.9	5.9	0.00	0.00	0.00	0.00	0.17	23	1.23	165	0.02			7.24	3.3	9.6	8.0	6.90	15.4	-0.6	-4.8					
12/17/2019	6.68	<0.10	9.2	6.6	6.8	1,065	787	60	10.9	7.2	3.9	0.00	0.00	0.00	0.00						96.201	96.167	7.45	4.0	12.0	8.8	6.94	15.5	43.0	37.8					
12/18/2019	6.70	<0.10	8.6	8.4	5.2	898	543	9	11.1	7.3	3.7	0.00	0.00	0.00	0.00						97.969	96.884	7.48	3.8	8.8	7.6	7.02	6.5	10.2	10.0					
12/19/2019	6.68	<0.10	10.4	5.8	7.5	960	692	31	10.6	7.5	2.9	0.00	0.00	0.00	0.00						96.795	95.772	7.45	4.2	10.8	9.8	6.89	12.6	15.4	10.8					
12/20/2019	6.60	0.10	11.0	8.6	7.4	954	642	41	10.4	7.8	3.1	0.00	0.00	0.00	0.00						97.621	93.210	7.42	6.4	11.6	9.4	7.12	26.0	13.4	11.2					
12/21/2019	6.71	<0.10	10.0	5.8	5.2	819	426	32	10.5	8.7	3.5	0.00	0.00	0.00	0.00						96.645	92.537	7.41	5.3	12.6	8.2	7.22	11.4	12.8	8.8					
12/22/2019	6.72	0.00	10.2	7.0	5.5	829	447	15	10.9	8.9	3.5	0.00	0.00	0.00	0.00						96.233	92.609	7.62	4.4	13.8	9.0	7.07	4.6	11.8	7.6					
12/23/2019	6.90	<0.10	9.0	6.8	5.2	751	434	20	11.1	7.9	5.3	0.00	0.00	0.00	0.00						97.928	97.078	7.52	4.4	12.0	9.4	6.99	4.6	13.6	10.8					
12/24/2019	6.76	<0.10	10.6	7.8	6.0	847	479	13	11.1	8.6	3.0	0.00	0.00	0.00	0.00								7.66	5.7	13.8	9.8	7.05	8.2	13.4	10.0					
12/25/2019	6.67	0.05	8.4	7.2	5.2	588	364	11	11.0	8.7	3.0	0.00	0.00	0.00	0.00						97.768	95.670	7.57	4.3	9.4	8.6	6.91	4.4	9.8	9.2					
12/26/2019	6.72	<0.10	13.8	9.2	5.9	982	420	11	10.8	9.0	2.5	0.00	0.00	0.00	0.00						98.244	94.851	7.52	4.3	11.4	9.4	6.84	5.9	13.0	10.0					
12/27/2019	6.77	<0.10	12.0	8.4	4.1	888	303	13	10.8	8.6	3.1	0.00	0.00	0.00	0.00						96.846	92.857	7.55	5.2	15.0	12.2	6.98	7.0	14.6	10.8					
12/28/2019	6.78	0.01	11.8		5.6	877	416	7	9.4	6.7	2.7	0.00	0.00	0.00	0.00						96.164	95.391	7.04	8.4	15.6		7.51	5.5	15.0						
12/29/2019	6.75	0.00	15.0	11.6	7.1	1,066	505	2	5.9	12.2	3.1	0.00	0.00	0.00	0.00	0.31	22	0.06	4	0.12			7.67	6.6	12.4	10.4	6.94	4.7	13.8	12.6					
12/30/2019	6.71	<0.10	12.4	10.4	7.4	1,143	682	8	10.4	9.6	2.9	0.00	0.00	0.00	0.00						96.980	93.474	7.49	7.1	12.8	11.6	6.92	9.2	16.2	13.8					
12/31/2019	6.60	<0.10	13.4	10.4	8.3	1,172	726	167	9.6	10.6	4.3	0.00	0.00	0.00	0.00						93.566	90.147	7.35	7.1	13.2	9.8	6.87	13.5	18.0	14.4					
MMAVG																MMAVG		0.65																	
Min.	6.5	0.00	6	1	4	532	250	2	5.9	6.7	2			0.00	0.00	0.17	16	0.06	4	0.02	43.20	66.25	7.0	3.1	8.6	3.2	6.7	4.4	-0.6	-4.8	42.0	110	0.82	12.0	<0.20
Max.	8.0	1.70	42	30	43	7931	8122	2420	13.4	12.2	23			0.00	0.00	0.48	45	1.95	183	0.12	98.37	98.71	8.0	31.2	49.2	39.8	8.1	26.0	43.0	37.8	42.0	110	0.82	12.0	<0.20
Total																																			
Average	6.8	<0.21	13	10	9	1462	1030	22	11.0	8.5	6			0.00	0.00	0.32	27	0.84	90	0.06	93.48	92.76	7.5	7.5	15.6	12.0	7.1	8.3	14.8	11.5	42.0	110	0.82	12.0	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
12/01/2019	4,820	4,750	3,890	3,900	17,100	20,690	7.87	7.77	577,440	568,800	33,666	33,178					39	40	6,490	6,170	4,980	4,640		19,000	6.11	6.75		1,141,920	75,019	71,321					51	54
12/02/2019	5,320	4,950	4,270	3,900	17,130	20,690	7.72	7.57	576,000	576,000	37,159	34,575	4,121	28,869	4,986	28,896	38	40	6,460	5,860	5,100	4,640		18,720	4.95	6.34		1,346,400	74,673	67,737			4,501	28,827	57	58
12/03/2019	5,140	5,540	4,230	4,720	15,360	14,530	7.83	7.71	613,440	620,640	35,902	38,696	3,941	28,913	4,072	28,909	35	34	6,500	6,160	5,090	4,590		18,890	5.18	6.40		1,440,000	86,694	71,205			4,449	28,713	49	52
12/04/2019	5,300	5,100	4,570	4,430	14,950	16,130	7.01	6.81	623,520	629,280	37,019	35,622	3,604	28,903	3,943	29,308	32	35	5,640	5,840	4,850	4,750		18,830	4.23	5.74		1,339,200	65,194	67,506			4,476	28,505	57	55
12/05/2019	6,000	5,340	4,630	4,430	15,570	12,880	6.99	6.84	576,000	576,000	41,909	37,299	4,921	28,781	3,088	25,140	28	36	3,920	4,260	3,150	3,260	6,970	9,410	6.13	7.14	1,514,880	1,506,240	45,312	49,242					51	52
12/06/2019	5,320	4,760	4,160	4,250	15,320	13,470	7.54	7.58	650,880	656,640	37,159	33,247	2,806	21,413	2,605	18,721	32	44	6,600	6,430	5,100	4,990	11,660	13,310	5.22	6.25	1,321,920	1,324,800	76,291	74,326	2,100	21,600	2,368	21,335	58	54
12/07/2019	3,430	4,660	3,280	3,880	22,940		7.75	7.70	594,720		23,958	32,549					53	41	6,840	6,370	5,370	4,980	11,120	11,950	5.31	5.07	1,180,800	1,180,800	79,065	73,632					56	60
12/08/2019	3,720	3,930	3,320	3,590	21,200		8.31	8.26	547,200		25,983	27,450					48	53	6,550	6,280	5,360	5,060	11,580	8,290	6.59	6.30	1,080,000	1,080,000	75,713	72,592					61	65
12/09/2019	3,680	4,160	3,070	3,470	24,160		7.05	7.14	593,280		25,704	29,057	3,986	21,482			46	43	7,530	7,170	5,930	5,710	13,380	14,000	4.27	6.07	1,267,200	1,268,640	87,041	82,880	2,253	21,642	2,012	21,648	54	57
12/10/2019	3,280	4,480	2,830	3,890	20,930		9.85	9.81	2,198,880		22,910	31,292	4,343	27,841			46	36	6,810	6,600	5,380	5,310	14,510	15,140	7.47	8.59	2,314,080	2,302,560	78,718	76,291	2,580	21,218	2,684	21,433	57	59
12/11/2019	5,420	5,170	4,170	4,290	16,660		9.35	9.28	2,291,040		37,857	36,111	4,010	28,864			46	52	6,400	6,420	4,950	5,140	14,750	13,580	6.67	7.98	2,309,760	2,299,680	73,979	74,210	2,857	23,027	2,705	22,671	64	72
12/12/2019	4,560	5,840	3,720	4,920	19,590		9.83	9.84	2,279,520		31,850	40,791	4,486	27,459			48	41	6,120	5,860	4,630	4,270	15,950	15,470	7.66	8.34	2,301,120	2,304,000	70,743	67,737	3,038	24,179	3,071	23,828	56	60
12/13/2019	4,460	5,100	3,820	4,290	19,380		7.87	7.95	1,908,000		31,152	35,622					52	53	6,210	6,300	5,070	5,020	15,270	15,110	3.91	4.42	2,314,080	2,305,440	71,783	72,823	3,098	24,139	2,993	23,925	60	60
12/14/2019	6,330	6,620	5,180	5,410	12,960	16,310	10.40	10.20	1,955,520	1,945,440	44,213	46,239					43	48	4,820	4,680	3,870	3,820	15,200	14,840	9.30	9.50	2,301,120	2,304,000	55,716	54,097					52	58
12/15/2019	6,320	6,460	4,640	4,790	13,750	14,510	10.00	10.00	2,027,520	2,059,200	44,144	45,121					43	46	4,420	4,100	2,950	2,740	14,590	14,780	8.40	8.70	2,296,800	2,299,680	51,092	47,393					54	56
12/16/2019	6,030	6,170	4,880	5,020	13,290	13,360	10.05	10.15	1,771,200	1,771,200	42,118	43,096	2,465	21,857	2,528	21,753	53	58	4,380	4,200	3,450	3,330	13,800	14,000	7.34	7.93	2,304,000	2,304,000	50,629	48,549	2,493	21,664	2,523	21,611	59	67
12/17/2019	6,140	5,750	4,940	4,550	13,830	13,760	7.16	6.45	1,454,400	1,468,800	42,886	40,162	2,502	21,414	2,497	21,538	51	59	5,080	4,780	3,980	3,650	13,850	14,200	3.73	3.24	2,304,000	2,304,000	58,721	55,253	2,515	21,771	2,531	21,371	59	61
12/18/2019	6,130	6,540	4,890	5,180	13,470	14,010	7.94	7.67	1,296,000	1,296,000	42,817	45,680	2,512	21,406	2,597	21,608	51	52	5,340	5,470	4,180	4,240	14,810	14,460	4.02	4.82	2,304,000	2,304,000	61,726	63,229	2,542	21,393	2,623	21,734	66	64
12/19/2019	5,250	6,360	4,980	5,100	12,840	13,490	8.87	9.05	1,195,200	1,195,200	36,670	44,423	2,418	21,528	2,524	21,681	59	54	5,230	5,390	4,770	4,400	13,660	13,350	4.63	4.42	2,304,000	2,304,000	60,455	62,304	2,444	21,456	2,399	21,550	75	72
12/20/2019	5,340	5,760	5,080	4,890	12,280	13,030	7.61	7.69	1,152,000	1,152,000	37,299	40,232	2,272	21,689	2,379	21,508	56	54	5,540	5,240	4,580	4,560	14,240	13,780	3.00	3.02	2,243,520	2,240,640	64,038	60,570	2,574	21,675	2,473	21,522	74	82
12/21/2019	3,280	4,140	1,110	1,190	13,200	11,370	4.25	5.05	1,296,000	1,296,000	22,910	28,917					104	77	5,830	4,200	1,370	980	14,940	10,500	9.25	9.18	2,273,760	2,283,840	67,390	48,549					81	107
12/22/2019	6,790	6,680	5,510	5,360	13,500	14,200	8.91	8.82	1,008,000	1,008,000	47,426	46,658					41	40	6,320	6,480	4,970	4,800	15,650	15,340	5.26	6.56	2,213,280	2,217,600	73,054	74,904					57	57
12/23/2019	5,500	5,150	5,290	5,040	10,890	14,120	7.50	8.00	992,160	977,760	38,416	35,971	1,935	21,303	2,530	21,484	49	52	5,950	5,510	5,340	5,210	15,640	15,450	4.40	4.50	1,967,040	1,896,480	68,777	63,691	2,806	21,509	2,743	21,365	62	69
12/24/2019	6,200	5,900	5,170	4,940	11,900	13,580	8.20	8.10	888,480	918,720	43,305	41,210	2,090	21,997	2,477	21,443	52	51	5,780	5,820	5,170	5,050	15,610	15,670	4.50	5.70	1,726,560	1,733,760	66,812	67,275	2,719	20,882	2,722	20,827	87	95
12/25/2019	5,980	4,350	5,220	3,620	12,050	12,680	8.70	8.50	872,640	904,320	41,769	30,384					45	58	4,940	2,180	4,630	1,960	15,340	12,410	4.60	6.00	1,798,560	1,810,080	57,103	25,199					81	184
12/26/2019	6,440	5,620	5,260	4,670	11,870	13,170	8.84	8.67	774,720	779,040	44,982	39,254	2,230	21,533	2,262	21,496	47	46	4,400	4,930	4,230	4,320	14,080	24,460	4.77	5.94	1,560,960	1,553,760	50,861	56,987	2,518	21,266	3,037	21,465	82	71
12/27/2019	6,350	5,210	5,200	4,450	12,790	13,190	8.80	8.70	806,400	836,640	44,353	36,391	2,174	20,249	2,169	20,594	47	54	6,320	6,310	5,300	4,970	15,460	16,080	4.00	5.00	1,709,280	1,928,160	73,054	72,939	2,758	21,393	2,850	21,255	71	73
12/28/2019	6,720	5,900	5,320	4,700	11,840	13,780	8.78	8.27	1,046,880	1,036,800	46,938	41,210					42	48	6,190	6,560	4,920	5,230	15,540	15,170	3.22	4.56	2,046,240	2,052,000	71,552	75,829					78	84
12/29/2019	6,350	6,100	4,990	4,820	12,060	13,850	9.11	8.77	760,320	764,640	44,353	42,607					46	48	6,120	6,150	4,990	5,070	15,510	15,740	3.71	5.04	1,507,680	1,494,720	70,743	71,089					78	83
12/30/2019	6,270	6,520	5,280	5,130	13,740	14,450	9.42	9.27	954,720	954,720	43,794	45,541	2,476	21,610	2,595	21,534	51	52	5,960	6,160	4,660	4,860	14,980	15,060	5.61	6.60	1,886,400	1,886,400	68,893	71,205	2,699	21,600	2,713	21,600	77	71
12/31/2019	6,560	6,760	5,260	5,420	12,950	14,160	9.32	9.26	943,200	941,760	45,820	47,217	2,372	21,310	2,560	21,676	46	40	6,190	6,360	5,010	5,120	15,510	15,110	5.65	6.70	1,880,640	1,874,880	71,552	73,517	2,717	21,371	2,788	21,552	65	71
MMAVG																																				
Min.	3,280	3,930	1,110	1,190	10,890	11,370	4	5	547,200	568,800	22,910	27,450	1,935	20,249	2,169	18,721	28	34	3,920	2,180	1,370	980	6,970	8,290	3	3	1,080,000	1,080,000	45,312	25,199	2,100	20,882	2,012	20,827	49	52
Max.	6,790	6,760	5,510	5,420	24,160	20,690	10	10	2,291,040	2,059,200	47,426	47,217	4,921	28,913	4,986	29,308	104	77	7,530	7,170	5,930	5,710	15,950	24,460	9	10	2,314,080	2,305,440	87,041	82,880	3,098	24,179	4,501	28,827	87	184
Total									35,225,280	24,933,600	1,176,441	1,185,802	61,664	478,421	45,812	367,289											52,231,680	57,631,680	2,090,834	2,014,081	44,711	371,785	58,661	456,737		
Average	5,433	5,476	4,457	4,459	15,145	14,392	8	8	1,136,299	1,038,900	37,950	38,252	3,083	23,921	2,863	22,956	47	48	5,835	5,621	4,624	4,409	14,207	14,906	5	6	1,934,507	1,859,086	67,446	64,970	2,630	21,870	2,933	22,837	64	70

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Merchant Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
01/01/2020	10.14	14.79	7.75	0.00		0.000			27.0	9.3							7.70	6.0	112	104	134	9,472	11,332		
01/02/2020	9.89	14.50	7.09	0.00		0.000	53,913		40.0	10.1	7.81	374	358	30,848	29,529		7.76	6.0	153	136	171	12,620	14,105		
01/03/2020	9.68	14.70	7.24	0.00		0.000	29,769		42.0		7.74	159	110	12,836	8,880		7.66	6.0	623	112	171	50,296	13,805		
01/04/2020	10.72	15.90	8.29	0.00		0.000	31,044		34.0		7.98						7.68	7.0	114		119	10,192	10,639		
01/05/2020	11.08	15.89	8.10	0.00		0.000	86		26.0		7.83	305	294	28,184	27,168		7.81	7.0	140	122	191	12,937	17,650		
01/06/2020	10.30	15.10	7.50	0.00		0.000	64,590		26.0	9.7	7.82	317	296	27,231	25,427		7.77	7.5	162	137	203	13,916	17,438		
01/07/2020	11.21	15.89	7.22	0.00		0.000	64,307		24.0	8.7							7.68	21.0	346	292	252	32,348	23,560		
01/08/2020	9.55	22.12	6.55	0.00		0.000	38,821		27.0	9.9	7.92	315	422	25,089	33,611		7.84	14.0	263	221	258	20,947	20,549		
01/09/2020	8.51	13.18	6.28	0.00		0.000	47,683		19.0	9.0	7.84	294	304	20,866	21,576		7.82	8.0	197	166	198	13,982	14,053		
01/10/2020	7.47	12.76	6.40	0.00		0.000	30,329		27.0	9.1	7.78	93	356	5,794	22,179		7.60	9.0	193		102	12,024	6,355		
01/11/2020	10.58	14.59	6.81	0.05		0.000	9,197		48.0	9.8	7.65	105	268	9,265	23,648		7.55	8.0	174		84	15,353	7,412		
01/12/2020	12.41	15.91	8.72	0.00		0.000	62		64.0	10.0	7.78	156	220	16,146	22,770		7.77	9.0	162	140	146	16,767	15,111		
01/13/2020	10.81	15.72	8.42	0.00		0.000	66,964		31.0		7.79	213	244	19,203	21,998		7.78	6.0	148	133	149	13,343	13,433		
01/14/2020	10.66	15.09	7.41	0.00		0.000	41,608		32.0		7.77	170	210	15,114	18,670		7.72	5.0	158	141	155	14,047	13,780		
01/15/2020	10.08	14.31	7.30	0.20		0.000	81,511		33.0		7.87	170	180	14,291	15,132		7.80	6.0	145	132	203	12,190	17,066		
01/16/2020	10.11	15.71	7.33	0.00		0.000	96,248		32.0		7.80	270	352	22,766	29,680		7.75	7.5	194	159	143	16,358	12,057		
01/17/2020	8.93	13.19	6.80	0.00		0.000	12,383		13.0	23.2	7.92	240	250	17,874	18,619		7.83	7.0	146	125	153	10,874	11,395		
01/18/2020	8.58	13.87	6.50	0.25		0.000			10.0	23.3	8.14						7.72	9.5	180	148	137	12,880	9,803		
01/19/2020	8.63	14.13	6.08	0.00		0.000	2,155		20.0	23.3	7.93	132	180	9,501	12,955		7.70	10.0	165	139	180	11,876	12,955		
01/20/2020	8.25	13.51	5.81	0.00		0.000	20,681		14.0	23.1	8.16	141	174	9,702	11,972		7.86	7.0	162	140	182	11,146	12,523		
01/21/2020	7.35	12.96	5.71	0.00		0.000	28,234		15.0	21.1	7.85	258	298	15,815	18,267		7.90	7.0	184	158	180	11,279	11,034		
01/22/2020	7.68	12.45	5.35	0.00		0.000	36,179		18.0	23.1	7.81	252	394	16,141	25,236		7.73	6.5	158	139	188	10,120	12,042		
01/23/2020	7.70	12.19	5.19	0.00		0.000	17,538		20.0	23.1	7.73	366	378	23,504	24,274		7.66	7.0	173	143	222	11,110	14,256		
01/24/2020	7.61	11.62	5.30	0.00		0.000	26,566		28.0	23.1	6.87	189	284	11,995	18,025		7.67	6.0	183	151	153	11,615	9,711		
01/25/2020	11.20	33.84	6.18	0.86		1.819	1,429		36.0	23.4	6.87	181	236	16,907	22,044		7.42	5.0	154	118	119	14,385	11,116		
01/26/2020	12.30	15.86	8.26	0.00		0.000	35		38.0	23.0	7.88	111	138	11,387	14,156		7.81	6.0	129	105	120	13,233	12,310		
01/27/2020	11.06	15.86	7.56	0.00		0.000	36,344		35.0	23.1	7.86	198	236	18,264	21,769		7.87	4.5	138	116	180	12,729	16,603		
01/28/2020	11.06	15.86	7.56	0.00		0.000	34,934		33.0	10.3	7.84	216	262	19,924	24,167		7.76	4.0	136	108	167	12,545	15,404		
01/29/2020	9.73	14.36	6.99	0.00		0.000	48,534		28.0	10.1	7.83	264	272	21,423	22,072		7.75	1.1	104	87	153	8,439	12,416		
01/30/2020	9.10	13.65	6.59	0.00		0.000	45,942		16.0	10.1	7.81	228	274	17,304	20,795		7.69	0.8	88	77	126	6,679	9,563		
01/31/2020	8.87	12.94	6.49	0.00		0.000	26,235		20.0	10.1	7.45	75	230	5,548	17,014		7.49	6.5	155	123	75	11,466	5,548		
MMAVG	8.47																								
Min.	7.4	11.6	5.2	0.0		0.000	35		10.0	8.7	6.87	75	110	5,548	8,880		7.42	0.8	88	77	75	6679	5548		
Max.	12.4	33.8	8.7	0.9		1.819	96,248		64.0	23.4	8.16	374	422	30,848	33,611		7.90	21.0	623	292	258	50296	23560		
Total	301.3	472.5	214.8	1.4		1.819	993,321																		
Average	9.7	15.2	6.9	0.0		0.059	34,252		28.26	15.79	7.77	215	267	17145	21172		7.73	7.1	179	138	162	14425	13065		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
01/01/2020	6.81	0.01	16.8	14.6	8.9	1,421	753	14	10.5	10.0	2.9	0.00	0.00	0.00	0.00								7.51	7.4	12.6	9.6	6.94	5.8	15.2	12.6					
01/02/2020	6.69	<0.10	7.2	7.8	6.6	594	544	20	9.7	10.1	4.0	0.00	0.00	0.00	0.00						98.235	97.989	7.53	7.8	14.0	11.6	6.85	5.4	11.4	10.2					
01/03/2020	6.62	<0.10	8.6	14.2	6.3	694	509	42	10.4	9.5	4.0	0.00	0.00	0.00	0.00						96.038	92.182	7.37	9.9	10.8	10.4	6.85	5.0	9.8	10.2					
01/04/2020	7.04	0.01	13.6		7.2	1,216	644	30	11.1	10.0	3.1	0.00	0.00	0.00	0.00								7.65	9.3	15.8		6.92	4.7	9.8						
01/05/2020	6.68	0.01	10.0	7.4	7.8	924	721	18	10.5	10.2	3.1	0.00	0.00	0.00	0.00						97.443	96.599					7.03	5.9	12.0	9.4					
01/06/2020	6.75	<0.10	9.0	6.4	7.5	773	644	26	9.9	9.0	6.5	0.00	0.00	0.00	0.00	0.25	21	0.11	9	0.05	97.634	96.959					7.06	4.3	11.0	8.2					
01/07/2020	6.80	<0.10	19.0	14.0	10.4	1,776	972	24	8.8	11.0	4.1	0.00	0.00	0.00	0.00								7.46	12.9	13.6	11.8	7.02	14.7	44.0	34.6					
01/08/2020	6.80	0.10	13.0	7.8	19.7	1,035	1,569	39	10.1	7.2	7.1	0.00	0.00	0.00	0.00						93.746	96.919	7.57	16.8	13.6	11.0	7.12	10.8	40.6	35.0					
01/09/2020	6.81	0.20	14.2	10.8	11.1	1,008	788	1553	8.1	10.1	7.4	0.00	0.00	0.00	0.00						96.224	95.329					7.03	11.1	28.6	24.4					
01/10/2020	6.86	0.10	12.0		9.3	748	579	1986	8.8	10.3	6.9	0.00	0.00	0.00	0.00						90.000	96.629					6.91	5.7	19.0						
01/11/2020	6.73	0.00	11.0		6.8	971	600	24	10.8	10.5	2.8	0.00	0.00	0.00	0.00						93.524	95.896	7.47	10.5	17.0		6.96	4.6	14.6						
01/12/2020	6.61	0.00	9.6	7.0	5.7	994	590	8	11.3	7.8	2.6	0.00	0.00	0.00	0.00						96.346	95.636					7.18	4.6	10.0	7.8					
01/13/2020	6.99	<0.10	9.2	7.0	7.0	829	631	17	10.5	8.2	4.9	0.00	0.00	0.00	0.00	0.23	21	0.13	12	0.04	96.714	96.230					7.04	5.1	10.0	7.0					
01/14/2020	6.81	<0.10	7.8	6.2	6.2	693	551	16	10.5	8.1	3.6	0.00	0.00	0.00	0.00						96.353	96.286					7.02	4.8	10.8	9.0					
01/15/2020	6.88	<0.10	8.0	6.6	6.9	673	580	15	10.4	9.7	6.3	0.00	0.00	0.00	0.00						95.941	95.556					6.94	4.9	10.6	9.4					
01/16/2020	6.82	<0.10	13.6	9.8	10.1	1,147	852	16	10.0	9.7	5.4	0.00	0.00	0.00	0.00						96.259	96.136					7.18	5.1	10.4	8.6	51.00	55.00	<0.50	14.00	<0.20
01/17/2020	6.89	<0.10	7.6	6.4	6.9	566	514	20	5.3	12.1	5.4	0.00	0.00	0.00	0.00						97.125	96.960	8.25	9.0	13.0	11.4	8.16	4.9	8.4	7.0					
01/18/2020	6.85	<0.10	11.4	9.6	5.6	816	401	11	4.1	12.8	3.1	0.00	0.00	0.00	0.00								7.54	7.1	13.6	10.8	7.03	4.5	13.6	10.6					
01/19/2020	6.96	0.01	8.4	6.8	5.9	605	425	15	9.5	12.5	2.5	0.00	0.00	0.00	0.00						95.530	95.333	8.23	7.5	11.4	9.6	8.28	4.5	7.8	7.0					
01/20/2020	6.83	<0.10	9.8	5.8	6.7	674	461	12	9.6	13.0	3.0	0.00	0.00	0.00	0.00	0.22	15	0.10	7	0.04	95.248	94.368	7.48	9.3	11.6	9.0	7.20	6.8	11.2	8.4					
01/21/2020	6.99	<0.10	11.2	7.8	8.1	687	497	20	12.3	5.2	5.9	0.00	0.00	0.00	0.00						96.860	96.242	7.68	15.6	13.2	8.6	7.22	5.0	13.2	9.4					
01/22/2020	7.03	<0.10	9.2	7.4	6.9	589	442	74	1.0	14.1	3.4	0.00	0.00	0.00	0.00						97.262	97.665	7.59	10.2	9.2	7.6	7.20	5.0	9.0	6.8					
01/23/2020	6.93	<0.10	11.0	6.4	7.2	706	462	15	2.5	13.3	4.7	0.00	0.00	0.00	0.00						98.033	97.090	7.61	6.4	10.2	7.4	7.21	6.3	17.0	12.6					
01/24/2020	6.96	<0.10	10.0	8.6	3.8	635	241	37	6.1	12.1	6.5	0.00	0.00	0.00	0.00						97.989	96.479	7.70	4.3	12.2	9.0	7.20	4.2	13.6	11.6					
01/25/2020	6.75	0.00	30.2	26.6	18.5	2,821	1,728	23	10.7	11.6	6.6	0.00	0.00	0.00	0.00						89.779	87.203	7.68	5.1	10.8	7.2	7.10	4.8	14.0	10.8					
01/26/2020	6.67	0.10	6.6	3.6	5.1	677	523	4	9.3	8.9	9.0	0.00	0.00	0.00	0.00						95.405	95.217	7.58	4.9	9.4	6.6	7.20	5.9	11.8	8.8					
01/27/2020	6.85	<0.10	9.8	6.4	5.7	904	526	11	9.5	8.0	3.1	0.00	0.00	0.00	0.00	0.16	15	0.30	28	0.05	97.121	95.847	7.63	7.2	8.8	7.0	7.10	5.6	12.8	9.8					
01/28/2020	6.82	<0.10	10.0	5.8	5.2	922	480	21	9.9	8.1	5.4	0.00	0.00	0.00	0.00						97.593	96.183	7.64	4.4	12.2	7.4	7.24	5.2	14.6	9.4					
01/29/2020	6.88	<0.10	9.6	6.8	5.1	779	414	12	9.7	8.2	6.1	0.00	0.00	0.00	0.00						98.068	96.471	7.59	4.8	10.8	7.8	7.18	5.5	14.0	9.6					
01/30/2020	6.96	0.10	9.8	6.6	5.5	744	417	31	8.8	10.3	6.0	0.00	0.00	0.00	0.00						97.588	96.423	7.49	4.6	9.0	7.0	7.05	5.4	14.8	9.8					
01/31/2020	6.93	<0.10	7.5	6.0	5.1	555	377	22	9.5	9.1	2.7	0.00	0.00	0.00	0.00						93.200	96.739	7.37	3.9	10.6	7.2	6.87	4.6	13.2	10.2					
MMAVG														MMAVG		0.65																			
Min.	6.6	0.00	7	4	4	555	241	4	1.0	5.2	2			0.00	0.00	0.16	15	0.10	7	0.04	89.78	87.20	7.4	3.9	8.8	6.6	6.9	4.2	7.8	6.8	51.0	55	<0.50	14.0	<0.20
Max.	7.0	0.20	30	27	20	2821	1728	1986	12.3	14.1	9			0.00	0.00	0.25	21	0.30	28	0.05	98.24	97.99	8.3	16.8	17.0	11.8	8.3	14.7	44.0	35.0	51.0	55	<0.50	14.0	<0.20
Total																																			
Average	6.8	<0.08	11	9	8	909	627	25	9.0	10.0	5			0.00	0.00	0.22	18	0.16	14	0.05	95.97	95.80	7.6	8.1	12.0	8.9	7.1	5.8	14.7	11.7	51.0	55	<0.50	14.0	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
01/01/2020	5,270	4,920	5,130	4,870	11,140	13,150	8.80	8.50	953,280	934,560	36,810	34,365					57	61	4,700	5,190	4,420	4,930	14,130	14,880	5.10	6.20	2,135,520	1,765,440	54,328	59,992					106	96
01/02/2020	6,410	5,910	5,230	4,740	12,780	13,450	8.89	8.74	1,080,000	1,080,000	44,772	41,280	2,317	21,735	2,446	21,807	50	53	6,310	6,380	5,110	5,190	15,630	14,960	3.47	4.95	2,145,600	2,145,600	72,939	73,748	2,797	21,455	2,722	21,813	82	85
01/03/2020	5,840	5,610	4,590	4,590	11,970	12,850	8.16	7.88	1,078,560	1,062,720	40,791	39,184					53	54	6,400	6,170	5,250	4,990	14,040	15,960	4.18	3.93	2,178,720	2,188,800	86,694	71,321	4,777	38,609	4,979	38,617	88	89
01/04/2020	5,300	5,290	4,200	4,270	16,630	16,850	7.28	7.03	888,480	889,920	37,019	36,949					53	53	6,810	6,980	5,520	5,690	15,290	15,870	3.30	4.66	1,756,800	1,765,440	78,718	80,683					95	89
01/05/2020	5,450	5,550	4,210	4,320	16,000	16,460	7.57	7.45	1,190,880	1,183,680	38,067	38,765					51	54	6,470	6,650	5,330	5,270	14,850	14,950	3.73	5.26	2,295,360	2,298,240	74,788	76,869					87	92
01/06/2020	4,690	4,500	4,520	4,250	15,530	16,250	7.66	5.53	1,059,840	1,059,840	32,758	31,431					58	64	6,380	6,600	5,310	5,890	13,910	13,860	3.84	5.67	2,036,160	2,040,480	73,748	76,291	4,809	38,830	4,821	38,670	94	97
01/07/2020	5,650	6,120	5,110	5,180	16,740	16,670	7.58	8.17	872,640	884,160	39,464	42,747					60	51	7,000	6,550	5,710	5,210	14,660	13,940	3.66	5.46	1,738,080	1,729,440	80,915	75,713	6,242	51,241	1,035	8,658	81	90
01/08/2020	5,160	5,440	4,080	4,260	17,130	17,620	6.38	7.15	1,134,720	1,137,600	36,041	37,997	3,101	21,411	3,028	21,532	54	55	6,270	6,140	2,000	5,010	14,750		6.03	7.09	2,304,000		72,476	70,974	4,172	33,819			80	85
01/09/2020	4,990	5,190	4,220	4,560	17,150	16,900	6.27	6.70	1,105,920	1,121,760	34,854	36,251	3,168	21,585	2,900	21,600	54	58	6,410	7,090	5,810	5,850	13,900		7.07	6.99	2,305,440		74,095	81,955					74	71
01/10/2020	5,250	5,700	4,260	4,550	17,660	17,900	6.64	7.49	1,094,400	1,094,400	36,670	39,813	2,353	16,078	2,414	16,214	57	56	7,140	6,910	5,700	5,450	14,290		5.97	7.00	2,304,000		82,533	79,874	2,575	21,604			94	104
01/11/2020	6,410	6,670	5,210	5,290	15,310	16,370	6.47	7.86	1,062,720	1,062,720	44,772	46,588					62	66	7,260	7,180	5,750	5,690	12,350	14,850	3.34	4.88	2,304,000	2,304,000	83,920	82,995					96	98
01/12/2020	6,000	6,150	4,810	4,850	15,870	16,230	4.38	6.54	1,438,560	1,438,560	41,909	42,956					62	65	6,670	6,940	5,230	5,490	14,310	14,240	3.66	5.16	2,304,000	2,304,000	77,100	80,221					84	81
01/13/2020	5,590	6,100	3,850	4,050	19,910	16,920	8.45	9.14	1,434,240	1,437,120	39,045	42,607	3,215	21,549	2,979	21,544	72	74	6,590	6,540	5,960	6,020	14,760	15,220	4.34	5.57	2,309,760	2,305,440	76,175	75,597	2,649	21,522	2,716	21,393	99	99
01/14/2020	5,780	6,200	4,520	4,890	15,840	17,200	8.36	9.03	1,339,200	1,339,200	40,372	43,305	2,802	21,552	3,055	21,623	69	74	6,890	13,580	5,420	11,940	14,390	14,670	4.02	5.37	2,304,000	2,304,000	79,643	156,974	2,585	21,542	2,628	21,479	96	47
01/15/2020	5,560	6,020	4,470	4,810	16,570	16,960	7.95	8.58	1,324,800	1,324,800	38,835	42,048	2,889	21,349	3,034	21,593	63	70	7,240	6,840	5,750	5,490	14,540	14,840	3.64	5.23	2,304,000	2,304,000	83,689	79,065	2,657	21,908	2,657	21,464	88	94
01/16/2020	5,520	6,170	4,460	4,980	15,910	16,980	8.03	8.75	1,195,200	1,195,200	38,556	43,096	2,227	16,444	2,271	16,044	69	68	7,260	7,320	5,860	5,800	14,800	14,420	3.48	5.00	2,308,320	2,305,440	83,920	84,614	3,341	27,064	3,180	26,408	96	90
01/17/2020	5,540	5,920	4,520	4,840	15,660	17,720	8.93	9.45	1,166,400	1,166,400	38,696	41,350	2,104	16,200	2,312	16,200	63	64	7,610	7,260	6,080	5,650	13,840	13,580	4.05	5.48	2,304,000	2,304,000	87,966	83,920	3,136	27,170	3,098	27,351	76	80
01/18/2020	5,310	5,840	4,340	4,740	14,550	15,450	9.30	9.70	1,104,480	1,000,800	37,089	40,791					57	69	7,180	7,390	6,040	6,630	9,360	11,330	5.80	5.90	2,301,120	2,305,440	82,995	85,423					84	81
01/19/2020	5,230	4,900	4,540	4,230	14,950	16,110	8.60	9.00	1,143,360	1,022,400	36,530	34,225					77	82	7,730	6,930	6,470	5,930	13,860	13,260	5.00	5.30	2,309,760	2,304,000	89,353	80,106					98	113
01/20/2020	4,410	4,900	3,870	3,980	13,750	16,150	3.26	4.43	1,008,000	1,008,000	30,803	34,225	2,606	21,775	2,911	21,641	82	82	7,200	7,400	5,840	5,760	13,050	12,720	3.20	4.78	2,304,000	2,304,000	83,227	85,538	2,327	21,383	2,311	21,787	103	97
01/21/2020	5,110	4,920	4,080	3,970	12,640	17,080	2.75	4.11	1,209,600	1,213,920	35,692	34,365	1,781	16,068	2,315	16,183	61	63	7,500	7,460	5,920	6,060	13,900	12,900	2.74	4.09	2,301,120	2,306,880	86,694	86,232	3,103	26,770	2,900	26,955	85	89
01/22/2020	6,300	5,340	5,060	4,220	16,180	12,880	8.10	8.42	993,600	990,720	44,004	37,299	1,815	16,200	2,110	16,200	97	79	7,560	7,550	5,960	5,910	13,550	13,050	3.23	4.59	2,304,000	2,302,560	87,388	87,272	3,053	27,020	2,973	27,314	99	101
01/23/2020	5,410	6,240	4,420	5,000	15,080	14,130	8.74	8.73	979,200	979,200	37,787	43,585	2,074	16,134	1,840	16,147	83	88	7,570	7,370	5,920	5,820	13,330	13,020	3.20	4.26	2,304,000	2,304,000	87,503	85,192	3,002	27,000	2,986	27,500	106	102
01/24/2020	5,920	6,350	4,760	5,050	14,950	15,230	8.26	8.16	1,224,000	1,221,120	41,350	44,353	1,998	16,024	2,039	16,050	86	82	7,630	7,700	6,030	6,070	13,240	14,230	3.12	4.29	2,302,560	2,304,000	88,197	89,006	3,004	27,203	3,245	27,340	98	108
01/25/2020	5,870	6,490	4,770	5,200	14,780	14,080	8.41	8.21	882,720	885,600	41,000	45,331					72	71	7,560	7,800	5,940	6,130	13,940	13,870	4.05	4.70	2,113,920	2,109,600	87,388	90,162					81	80
01/26/2020	6,010	5,390	4,920	4,370	14,500	14,480	8.47	0.40	1,317,600	1,324,800	41,978	37,648					58	71	6,690	6,760	5,230	5,360	14,640	14,450	4.40	5.81	2,304,000	2,311,200	77,331	78,140					75	74
01/27/2020	4,930	5,020	4,330	4,500	13,820	14,560	8.80	8.70	1,332,000	1,478,880	34,435	35,063	1,859	16,127	1,984	16,342	75	80	6,880	6,330	5,670	5,270	14,030	13,210	6.34	6.25	2,296,800	2,289,600	79,528	73,170	3,080	25,763	2,966	25,711	73	79
01/28/2020	4,610	5,420	4,440	4,690	14,030	14,010	7.40	7.50	1,383,840	1,334,880	32,200	37,857	1,828	16,119	1,884	16,192	82	92	6,360	6,170	5,670	5,420	13,640	13,240	4.50	5.60	2,304,000	2,308,320	73,517	71,321	3,125	27,298	16,460	27,159	87	92
01/29/2020	4,980	4,760	4,350	4,500	13,850	13,340	8.10	8.20	1,319,040	1,349,280	34,784	33,247	1,704	14,750	1,648	14,810	70	74	6,960	6,910	5,550	5,450	13,390	13,100	4.60	4.70	2,298,240	2,275,200	80,452	79,874	3,104	27,587	3,073	27,731	69	72
01/30/2020	4,700	5,510	4,340	4,690	12,380	13,680	8.72	8.81	1,241,280	1,202,400	32,828	38,486	1,703	15,772	1,917	16,186	75	73	6,220	6,160	5,640	5,530	12,830	7,680	4.68	5.35	2,304,000	2,301,120	71,898	71,205	2,876	26,876	1,727	26,968	90	93
01/31/2020	5,100	5,520	4,470	4,620	14,170	16,020	7.30	8.40	1,110,240	1,107,360	35,622	38,556	1,899	16,066	2,172	16,257	75	83	7,120	6,950	5,660	5,510	13,280	12,900	4.50	5.60	2,142,720	2,124,000	82,302	80,337	3,023	26,447	2,898	26,337	84	92
MMAVG																																				
Min.	4,410	4,500	3,850	3,970	11,140	12,850	3	0	872,640	884,160	30,803	31,431	1,703	14,750	1,648	14,810	50	51	4,700	5,190	2,000	4,930	9,360	7,680	3	4	1,738,080	1,729,440	54,328	59,992	2,327	21,383	1,035	8,658	69	47
Max.	6,410	6,670	5,230	5,290	19,910	17,900	9	10	1,438,560	1,478,880	44,772	46,588	3,215	21,775	3,055	21,807	97	92	7,730	13,580	6,470	11,940	15,630	15,960	7	7	2,309,760	2,311,200	89,353	156,974	6,242	51,241	16,460	38,670	106	113
Total									35,668,800	35,532,000	1,175,533	1,215,763	43,443	342,938	45,259	344,165											69,228,000	61,914,240	2,468,705	2,533,784	69,437	588,111	69,375	490,655		
Average	5,429	5,615	4,519	4,615	15,078	15,603	8	8	1,150,606	1,146,194	37,920	39,218	2,286	18,049	2,382	18,114	66	69	6,889	7,071	5,540	5,820	13,886	13,757	4	5	2,233,161	2,211,223	79,636	81,735	3,307	28,005	3,651	25,824	89	89

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
02/01/2020	8.68	13.76	6.19	0.00		0.000	35,004		34.0	10.2	7.66	143	202	10,352	14,623		7.61	2.5	116	93	125	8,397	9,049		
02/02/2020	8.63	13.56	6.34	0.00		0.000			34.0	10.3	7.78	153	170	11,012	12,236		7.77	1.5	91	75	152	6,550	10,940		
02/03/2020	8.38	13.38	5.44	0.00		0.000	50,875		30.0	10.9	7.80	246	272	17,193	19,010		7.81	0.7	122	107	171	8,526	11,951		
02/04/2020	8.15	12.65	5.80	0.03		0.000	60,753		32.0	10.3	7.55	318	400	21,615	27,188		7.79	1.5	127	110	168	8,632	11,419		
02/05/2020	8.03	13.07	5.41	0.25		0.000	77,513		35.0	10.9	7.69	347	416	23,239	27,860		7.74	2.5	135	119	213	9,041	14,265		
02/06/2020	8.10	13.06	5.41	0.03		0.000	5,096		30.0	10.3	7.81	282	282	19,050	19,050		7.78	3.0	144	116	210	9,728	14,186		
02/07/2020	10.38	20.43	6.56	0.50		0.202	11,928		32.0	10.3	7.58	304	228	26,317	19,738		7.61	7.0	133		117	11,514	10,129		
02/08/2020	8.94	13.77	6.24	0.00		0.000	7,045		15.0	18.2							7.59	7.0	81	36	156	6,039	11,631		
02/09/2020	8.46	13.41	6.01	0.06		0.000			11.0	10.2	7.71	149	148	10,513	10,442		7.68	8.0	179	154	159	12,630	11,218		
02/10/2020	10.55	18.36	7.13	0.27		0.176	8,829		33.0	10.2	7.53	192	220	16,894	19,357		7.61	6.0	153	138	155	13,462	13,638		
02/11/2020	9.98	15.18	7.08	0.05		0.000	35,587		34.0	10.4	7.74	204	224	16,980	18,644		7.75	7.5	173	153	177	14,399	14,732		
02/12/2020	9.60	14.20	6.85	0.37		0.000	59,159		30.0	10.1	7.75	213	270	17,054	21,617		7.77	5.0	159	135	182	12,730	14,572		
02/13/2020	10.43	15.24	6.85	0.00		0.000			34.0	10.3	7.67	282	258	24,530	22,442		7.74	3.0	120	103	141	10,438	12,265		
02/14/2020	9.54	16.10	7.65	0.00		0.000	27,811		24.0	10.1	7.73	84	146	6,683	11,616		7.76	1.5	115		182	9,150	14,481		
02/15/2020	9.08	13.42	6.53	0.00		0.000	1,319		4.0	10.0	7.70	84	146	6,361	11,056		7.69	1.0	107		117	8,103	8,860		
02/16/2020	8.98	13.40	6.17	0.00		0.000	1,038		28.0	10.4	7.64	81	200	6,066	14,979		7.58	2.0	183	110	102	13,705	7,639		
02/17/2020	8.74	13.47	6.11	0.00		0.000	22,984		21.0	10.3	7.67	207	230	15,089	16,765		7.63	0.5	124	108	185	9,039	13,485		
02/18/2020	9.61	18.08	7.09	0.38		0.000	23,311		29.0	10.1	7.72	228	332	18,274	26,609		7.75	4.0	161	130	174	12,904	13,946		
02/19/2020	9.61	12.40	6.76	0.00		0.000	22,206		33.0	10.3	7.73	252	270	20,197	21,640		7.68	1.5	121	108	152	9,698	12,182		
02/20/2020	11.91	11.75	6.17	0.00		0.000	27,222		18.0	10.2	7.77	219	264	21,753	26,223		7.75	1.0	120	105	150	11,920	14,899		
02/21/2020	8.48	11.67	6.24	0.00		0.000	24,957		10.0	10.0	7.69	209	144	14,781	10,184		7.71	5.0	123	106	171	8,699	12,094		
02/22/2020	8.12	11.82	5.60	0.00		0.000	8,529		27.0	10.1	7.69	147	152	9,955	10,294		7.72	3.5	118	91	129	7,991	8,736		
02/23/2020	7.96	12.38	5.70	0.00		0.000			23.0	10.2	7.78	150	164	9,958	10,887		7.87	1.5	115	99	131	7,634	8,697		
02/24/2020	8.07	11.75	5.70	0.00		0.000	53,313		31.0	10.3	7.67	179	258	12,047	17,364		7.72	0.7	117	99	174	7,875	11,711		
02/25/2020	8.48	12.17	0.00	0.04		0.000	31,775		36.0	10.5	7.65	219	328	15,488	23,197		7.70	0.4	116	90	134	8,204	9,477		
02/26/2020	8.61	26.40	5.98	0.84		0.497	54,579		39.0	10.7	7.61	258	390	18,526	28,005		7.64	0.2	109	93	132	7,827	9,479		
02/27/2020	11.04	28.56	9.00	0.18		0.909			36.0	10.0	7.64	188	256	17,310	23,571		7.76	0.3	90	76	102	8,287	9,392		
02/28/2020	10.74	15.31	7.94	0.00		0.000	27,898		28.0	10.1	6.87	105	142	9,405	12,719		7.71	0.5	97	73	105	8,688	9,405		
02/29/2020	9.78	14.51	7.27	0.00		0.000	501		34.0	10.1	6.87	129	156	10,522	12,724		7.69	2.0	80	63	132	6,525	10,767		
MMAVG	8.48																								
Min.	8.0	11.7	0.0	0.0		0.000	501		4.0	10.0	6.87	81	142	6,066	10,184		7.58	0.2	80	36	102	6039	7639		
Max.	11.9	28.6	9.0	0.8		0.909	77,513		39.0	18.2	7.81	347	416	26,317	28,005		7.87	8.0	183	154	213	14399	14899		
Total	267.1	433.3	181.2	3.0		1.784	679,232																		
Average	9.2	14.9	6.2	0.1		0.062	28,301		27.76	10.55	7.63	199	238	15256	18216		7.71	2.8	125	103	152	9598	11560		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
02/01/2020	6.77	0.10	9.6	7.2	4.5	695	326	3	9.2	10.6	1.6	0.00	0.00	0.00	0.00						96.853	95.248	7.37	4.1	10.8	7.4	6.83	4.5	13.6	11.4					
02/02/2020	6.78	0.10	8.8	6.0	4.3	633	309	4	10.2	11.1	1.5	0.00	0.00	0.00	0.00						97.190	94.824	7.43	3.5	7.6	5.6	7.09	4.2	12.8	8.2					
02/03/2020	6.73	<0.10	7.0	3.8	6.6	489	461	11	7.0	11.1	2.8	0.00	0.00	0.00	0.00	0.19	13	0.65	45	0.05	97.317	97.426	7.52	11.6	9.0	7.0	7.01	5.2	14.2	10.0					
02/04/2020	6.89	0.10	10.4	6.8	5.2	707	353	61	9.3	9.8	2.7	0.00	0.00	0.00	0.00						98.365	97.400	7.57	6.6	7.8	5.2	7.09	4.9	13.0	8.8					
02/05/2020	6.84	<0.10	9.4	5.4	5.3	630	355	6	7.6	11.2	4.4	0.00	0.00	0.00	0.00						98.473	97.740	7.49	3.7	8.6	7.0	7.19	11.6	30.0	25.2					
02/06/2020	7.03	<0.10	8.2	5.2	6.9	554	466	14	4.1	12.4	3.7	0.00	0.00	0.00	0.00						97.553	97.092	7.55	3.7	9.4	6.0	7.24	27.6	28.2	20.6					
02/07/2020	6.97	<0.10	94.0		37.2	8,138	3,220	115	7.1	11.1	2.9	0.00	0.00	0.00	0.00						87.763	58.772	7.33	49.8	154.4		6.97	11.6	18.0		55.00	65.00	<0.50	17.00	<0.20
02/08/2020	6.75	0.00	6.4	5.4	5.1	477	380	6	6.9	11.0	2.5	0.00	0.00	0.00	0.00								7.46	4.8	25.8	21.4	6.86	5.1	7.6	5.8					
02/09/2020	6.93	0.00	8.0	4.8	4.8	564	339	8	10.7	13.2	1.9	0.00	0.00	0.00	0.00						96.779	94.595	7.60	4.4	10.0	7.2	7.18	4.6	12.0	9.8					
02/10/2020	6.74	<0.10	9.6	7.2	6.5	845	572	12	9.7	8.7	3.9	0.00	0.00	0.00	0.00	0.19	17	0.37	33	0.06	96.615	95.636	7.58	3.6	7.8	6.4	6.99	4.5	12.6	9.4					
02/11/2020	6.86	<0.10	8.6	5.8	4.5	716	375	5	9.7	9.0	9.5	0.00	0.00	0.00	0.00						97.794	96.161	7.54	3.1	8.4	6.0	7.04	4.6	13.6	11.2					
02/12/2020	6.96	<0.10	7.4	4.0	4.7	592	376	10	9.0	9.7	5.6	0.00	0.00	0.00	0.00						97.793	97.259	7.59	3.2	9.4	7.2	6.97	4.7	12.8	9.4					
02/13/2020	6.80	<0.10	7.0	4.8	7.4	609	644	25	9.6	9.4	3.3	0.00	0.00	0.00	0.00						97.376	97.287	7.52	4.9	6.4	4.2	7.18	10.5	10.2	7.4					
02/14/2020	6.87	<0.10	9.4		5.3	748	422	16	8.6	9.7	5.2	0.00	0.00	0.00	0.00						93.690	93.562	7.38	3.8	11.4		6.96	3.2	14.2						
02/15/2020	6.76	0.00	8.0		5.3	606	401	7	8.0	9.4	2.4	0.00	0.00	0.00	0.00						93.690	94.521	7.39	3.1	10.2		6.96	3.7	12.8						
02/16/2020	6.72	0.00	10.2	8.0	3.2	764	240	12	9.1	9.1	1.9	0.00	0.00	0.00	0.00						96.049	94.900	7.35	3.0	8.2	6.2	6.84	2.9	10.6	9.0					
02/17/2020	6.66	0.00	6.0	5.0	4.1	437	299	8	9.5	9.0	2.1	0.00	0.00	0.00	0.00	0.13	9	0.15	11	0.03	98.019	97.391	7.51	4.0	7.0	14.4	7.06	3.9	9.2	7.2					
02/18/2020	6.70	<0.10	8.6	6.6	5.0	689	401	7	9.7	9.0	2.3	0.00	0.00	0.00	0.00						97.807	97.410	7.73	4.0	7.6	5.0	7.11	4.0	10.6	7.0					
02/19/2020	6.90	<0.10	9.0	6.6	5.1	721	409	5	9.3	9.0	2.8	0.00	0.00	0.00	0.00						97.976	96.667	7.54	4.9	8.4	6.6	7.14	4.4	12.0	9.4					
02/20/2020	6.96	<0.10	7.8	4.4	7.9	775	785	14	9.3	9.1	3.2	0.00	0.00	0.00	0.00						96.393	97.045	7.60	6.0	8.8	6.0	7.14	8.1	11.4	8.2					
02/21/2020	6.83	<0.10	5.4	3.0	6.1	382	431	12	9.1	9.1	2.4	0.00	0.00	0.00	0.00						97.081	96.250	8.23	5.1	6.4	5.0	8.25	4.8	7.0	5.4					
02/22/2020	6.84	<0.10	5.0	4.4	4.7	339	318	8	9.3	9.1	2.8	0.00	0.00	0.00	0.00						96.803	96.711	8.24	3.5	6.6	5.2	8.15	3.6	9.0	7.8					
02/23/2020	6.81	<0.10	6.0	3.6	3.6	398	239	4	9.4	9.1	1.6	0.00	0.00	0.00	0.00						97.600	96.341	7.51	3.4	8.8	7.0	7.10	3.1	9.2	7.6					
02/24/2020	6.79	<0.10	5.6	4.4	5.0	377	337	2	9.6	9.0	2.6	0.00	0.00	0.00	0.00	0.36	24	0.15	10	0.02	97.207	97.829	7.50	3.4	7.0	5.6	6.99	3.9	12.0	9.6					
02/25/2020	6.89	<0.10	7.8	4.8	5.1	552	361	9	10.2	8.6	4.9	0.00	0.00	0.00	0.00						97.671	97.622	7.53	4.1	8.6	6.8	7.02	3.8	12.6	9.0					
02/26/2020	6.85	<0.10	13.2	8.8	9.3	948	668	17	10.6	8.6	7.0	0.00	0.00	0.00	0.00						96.395	96.615	7.55	4.6	9.6	7.6	6.96	5.6	17.8	15.4					
02/27/2020	6.88	1.50	92.0	70.4	62.4	8,471	5,745	2420	8.7	7.8	42.7	0.00	0.00	0.00	0.00						66.809	64.063	7.45	98.4	230.0	185.0	7.18	9.8	13.6	11.4					
02/28/2020	6.68	<0.10	7.8	6.0	4.7	699	421	8	8.8	7.7	2.5	0.00	0.00	0.00	0.00						95.524	94.507	7.35	5.5	9.8	7.2	7.20	3.7	12.2	8.8					
02/29/2020	6.62	<1.00	9.0	5.4	4.2	734	343	6	9.0	8.9	2.0	0.00	0.00	0.00	0.00						96.744	94.231	7.21	4.7	10.0	7.4	7.35	3.3	11.6	8.4					
MMAVG													MMAVG		0.64																				
Min.	6.6	0.00	5	3	3	339	239	2	4.1	7.7	1			0.00	0.00	0.13	9	0.15	10	0.02	66.81	58.77	7.2	3.0	6.4	4.2	6.8	2.9	7.0	5.4	55.0	65	<0.50	17.0	<0.20
Max.	7.0	1.50	94	70	62	8471	5745	2420	10.7	13.2	43			0.00	0.00	0.36	24	0.65	45	0.06	98.47	97.83	8.2	98.4	230.0	185.0	8.3	27.6	30.0	25.2	55.0	65	<0.50	17.0	<0.20
Total																																			
Average	6.8	<0.16	14	8	8	1148	689	11	8.9	9.7	5			0.00	0.00	0.22	16	0.33	25	0.04	95.55	93.75	7.5	9.3	21.9	14.1	7.1	6.0	13.3	10.1	55.0	65	<0.50	17.0	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
02/01/2020	5,250	5,550	4,150	4,640	13,920	16,110	8.18	8.16	1,283,040	1,219,680	36,670	38,765					72	79	7,110	7,150	4,670	5,660	13,720	13,480	4.78	5.90	2,286,720	2,288,160	82,186	82,649					94	95
02/02/2020	5,890	5,760	4,710	4,720	13,640	15,750	7.71	7.62	936,000	937,440	41,140	40,232					63	78	7,330	6,930	5,870	5,510	13,970	14,230	5.34	5.91	1,864,800	1,863,360	84,729	80,106					90	95
02/03/2020	5,340	5,240	5,260	4,490	12,770	14,580	5.04	5.07	960,480	969,120	37,299	36,600	2,382	21,628	2,738	21,645	86	105	6,830	6,850	6,540	5,940	13,360	13,420	3.09	3.72	1,913,760	1,956,960	86,694	79,181	2,397	21,511	2,395	21,399	101	107
02/04/2020	6,700	6,300	5,390	5,120	6,300	13,030	4.00	4.80	1,353,600	1,324,800	46,798	44,004	2,697	21,194	2,342	21,548	90	92	7,240	7,160	5,870	5,790	13,990	13,950	3.78	4.12	2,301,120	2,289,600	83,689	82,764	2,525	21,642	2,423	20,824	104	105
02/05/2020	6,350	6,970	5,190	5,660	14,220	13,980	7.21	7.07	1,359,360	1,339,200	44,353	48,684	2,544	21,450	2,510	21,524	79	79	7,230	7,190	5,750	5,760	11,870	14,390	5.32	5.56	2,021,760	2,044,800	83,573	83,111	2,144	21,657	2,557	21,305	84	97
02/06/2020	5,900	6,580	4,790	5,290	13,660	14,310	6.14	6.39	1,411,200	1,411,200	41,210	45,960	2,471	21,694	2,578	21,600	85	85	3,050	2,990	2,490	2,420	2,480	7,610	7.31	6.24	2,016,000	2,016,000	35,256	34,562	1,135	21,450	1,511	21,524	69	70
02/07/2020	6,250	7,080	5,180	5,940	14,090	15,610	6.42	6.23	2,262,240	2,331,360	43,655	49,452	2,270	19,648	2,796	21,747	80	73	7,290	6,690	5,710	5,320	13,960	12,720	3.75	4.70	2,302,560	2,253,600	84,267	77,331	2,488	21,369	2,297	21,649	89	90
02/08/2020	4,200	3,480	3,200	2,480	10,760	12,950	9.55	9.51	1,748,160	1,765,440	29,336	24,307					119	167	5,560	6,170	5,350	5,320	13,180	9,150	5.46	6.21	2,301,120	2,305,440	64,269	71,321					117	118
02/09/2020	5,640	4,730	5,330	4,450	12,730	12,850	9.76	9.75	1,549,440	1,562,400	39,394	33,038					96	129	6,020	5,840	5,400	5,190	12,940	13,880	5.24	6.19	2,217,600	2,219,040	69,587	67,506					115	122
02/10/2020	6,530	6,610	5,480	5,420	13,460	12,910	9.63	9.49	2,049,120	2,036,160	45,610	46,169	2,424	21,590	2,359	21,824	104	91	6,480	6,140	5,220	5,630	13,390	12,560	4.29	5.41	2,305,440	2,301,120	74,904	70,974	2,345	21,357	2,434	21,787	110	117
02/11/2020	6,690	7,080	5,390	5,680	14,130	14,570	9.43	9.34	1,499,040	1,493,280	46,728	49,452	2,478	21,600	2,526	21,423	90	79	7,290	7,180	5,500	5,770	14,110	14,120	5.07	6.51	2,144,160	2,135,520	84,267	82,995	2,542	21,601	2,510	21,317	93	98
02/12/2020	6,630	7,250	5,340	6,550	14,010	13,740	7.38	7.31	1,710,720	1,712,160	46,309	50,639	2,490	21,696	2,432	21,620	68	73	6,850	6,580	4,970	5,270	13,800	11,600	4.20	5.24	2,319,840	2,298,240	79,181	76,060	2,449	21,278	2,223	21,310	85	88
02/13/2020	6,480	6,390	5,390	5,430	14,570	14,140	7.30	4.80	1,775,520	1,772,640	45,261	44,633	2,477	21,151	2,459	21,534	71	80	7,370	6,990	5,930	5,580	13,990	13,320	6.90	4.70	2,309,760	2,301,120	85,192	80,799	3,000	21,803	2,431	21,383	94	93
02/14/2020	5,920	6,080	5,050	5,150	14,740	14,100	7.89	7.58	1,281,600	1,281,600	41,350	42,467	2,738	22,275	2,686	22,842	95	99	7,080	6,740	5,820	5,370	13,850	13,590	5.47	5.86	2,160,000	2,160,000	81,839	77,909	2,400	20,655	2,365	20,601	99	101
02/15/2020	6,320	6,950	5,270	5,590	13,710	13,060	8.81	8.71	1,627,200	1,627,200	44,144	48,544					103	104	6,830	6,890	5,560	5,500	13,280	12,960	4.48	5.40	2,304,000	2,304,000	78,950	79,643					110	109
02/16/2020	4,860	5,000	4,690	5,130	12,470	12,800	8.06	7.79	1,350,720	1,352,160	33,946	34,924					103	114	3,740	5,730	5,520	5,600	13,680	9,490	3.93	5.63	2,265,120	2,259,360	43,232	66,234					190	120
02/17/2020	5,460	5,680	5,320	5,350	12,720	14,070	6.22	6.31	1,359,360	1,357,920	38,137	39,673	2,506	23,860	2,708	24,168	92	106	6,770	5,940	5,750	5,730	13,000	14,630	3.74	4.99	2,247,840	2,249,280	78,256	68,662	2,079	19,171	2,370	19,427	105	120
02/18/2020	5,850	6,450	5,030	5,370	15,370	14,610	7.12	7.05	1,229,760	1,229,760	40,861	45,052	2,911	23,631	2,929	23,983	86	93	6,890	6,540	5,670	5,930	14,010	14,340	3.20	4.52	2,056,320	2,050,560	79,643	75,597	2,258	19,321	2,301	19,241	105	112
02/19/2020	6,460	6,930	5,220	5,640	15,370	15,020	8.09	7.83	1,281,600	1,281,600	45,121	48,404	2,991	23,937	2,980	24,125	77	79	7,010	7,090	5,620	5,700	14,470	14,480	5.33	5.94	2,145,600	2,145,600	81,030	81,955	2,370	19,636	2,379	19,703	96	99
02/20/2020	5,890	6,210	5,370	5,700	14,430	12,500	4.29	5.16	1,382,400	1,382,400	41,140	43,375	15,701	23,815	2,631	23,923	93	105	6,140	3,490	5,990	3,460	13,800	12,060	3.44	4.57	2,446,560	2,446,560	70,974	40,342	2,200	19,117	1,949	19,380	117	229
02/21/2020	5,140	6,350	4,740	5,530	14,200	13,940	8.40	8.39	1,252,800	1,252,800	35,902	44,353	2,823	23,923	2,897	23,922	97	95	6,820	5,680	5,840	5,420	13,200	13,350	5.61	5.19	2,066,400	2,066,400	78,834	65,656	2,146	19,496	2,148	19,296	103	127
02/22/2020	5,820	6,110	5,330	5,620	11,080	8,590	9.50	9.50	1,203,840	1,188,000	40,651	42,677					72	74	6,310	6,290	6,010	5,890	11,890	9,340	5.60	6.10	2,158,560	2,181,600	72,939	72,708					87	87
02/23/2020	4,500	6,550	3,610	5,830	14,230	13,690	9.40	9.30	1,095,840	1,157,760	31,431	45,750					118	86	7,140	6,910	6,420	6,200	14,180	14,300	5.90	6.00	1,887,840	1,882,080	82,533	79,874					98	107
02/24/2020	6,430	6,280	5,320	5,470	13,950	14,590	8.76	8.91	1,231,200	1,242,720	44,912	43,864	2,815	23,959	2,859	24,247	72	88	6,830	6,960	6,420	5,530	14,170	13,120	3.95	5.15	2,086,560	2,088,000	78,950	80,452	2,248	19,021	2,114	19,323	92	91
02/25/2020	6,220	6,740	5,080	5,320	15,100	14,800	7.50	7.17	1,180,800	1,180,800	43,445	47,077	2,994	24,030	3,157	23,976			7,300	7,290	6,000	5,830	14,530	14,500	4.72	5.53	1,951,200	1,951,200	84,382	84,267	2,268	19,177	2,287	19,478		
02/26/2020	6,100	6,640	4,930	5,340	15,170	15,600	3.45	4.75	1,247,040	1,272,960	42,607	46,379	3,054	24,012	3,113	24,102	74	80	7,380	7,210	5,890	5,740	13,920	13,970	4.60	5.15	2,139,840	2,126,880	85,307	83,342	2,218	19,102	2,216	19,142	95	97
02/27/2020	5,790	6,340	4,740	5,200	12,510	15,110	3.17	4.12	2,626,560	2,750,400	40,442	44,283	2,702	23,996	3,109	24,046	71	77	6,200	6,390	4,990	5,170	14,520	13,700	3.22	3.31	2,311,200	2,308,320	71,667	73,864	2,310	19,079	2,195	19,211	90	94
02/28/2020	5,700	6,850	5,140	5,590	12,280	12,510	3.16	5.76	2,304,000	2,304,000	39,813	47,846	2,436	23,783	2,505	24,012	91	88	6,710	6,530	5,420	5,330	9,140	12,730	4.59	5.13	2,923,200	2,923,200	77,563	75,482	1,820	19,097	2,079	19,211	106	107
02/29/2020	6,540	6,740	4,980	5,680	14,800	14,590	6.45	5.85	1,477,440	1,474,560	45,680	47,077					58	65	6,460	6,850	5,300	5,430	14,680	11,470	6.44	6.75	2,017,440	1,990,080	74,673	79,181					74	73
MMAVG																																				
Min.	4,200	3,480	3,200	2,480	6,300	8,590	3	4	936,000	937,440	29,336	24,307	2,270	19,648	2,342	21,423	58	65	3,050	2,990	2,490	2,420	2,480	7,610	3	3	1,864,800	1,863,360	35,256	34,562	1,135	19,021	1,511	19,142	69	70
Max.	6,700	7,250	5,480	6,550	15,370	16,110	10	10	2,626,560	2,750,400	46,798	50,639	15,701	24,030	3,157	24,247	119	167	7,380	7,290	6,540	6,200	14,680	14,630	7	7	2,923,200	2,923,200	85,307	84,267	3,000	21,803	2,557	21,787	190	229
Total									43,030,080	43,211,520	1,193,345	1,263,680	65,904	452,872	54,314	457,811											63,472,320	63,406,080	2,210,822	2,154,527	45,342	406,540	45,184	406,511		
Average	5,891	6,239	4,987	5,289	13,462	13,935	7	7	1,483,796	1,490,052	41,150	43,575	3,295	22,644	2,716	22,891	86	91	6,595	6,427	5,569	5,413	13,141	12,843	5	5	2,188,701	2,186,417	76,235	74,294	2,267	20,327	2,259	20,326	100	106

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
03/01/2020	9.78	14.56	6.90	0.00		0.000	2,330		34.0	10.1	7.75	125	134	10,196	10,930		7.63	0.4	81	67	102	6,607	8,320		
03/02/2020	9.38	13.99	6.66	0.00		0.000	13,406		29.0	10.0	7.57	264	402	20,653	31,448		7.70	0.3	104	94	114	8,136	8,918		
03/03/2020	10.08	15.06	6.39	0.09		0.000	27,740		36.0	10.3	7.61	246	348	20,681	29,255		7.72	0.5	104	90	177	8,743	14,880		
03/04/2020	10.08	14.06	6.52	0.00		0.000	21,722		39.0	10.4	7.67	206	262	17,318	22,026		7.75	0.5	100	84	120	8,407	10,088		
03/05/2020	9.32	14.61	6.33	0.00		0.000	45,013		38.0	10.6	7.74	264	296	20,520	23,008		7.67	0.8	114	95	156	8,861	12,126		
03/06/2020	9.12	12.21	0.00	0.00		0.000	26,610		30.0	10.1	7.58	210	268	15,973	20,384		7.53	1.5	124	95	144	9,432	10,953		
03/07/2020	8.23	11.62	5.80	0.00		0.000	25,140		35.0	10.2	7.60	134	220	9,198	15,100		7.48	1.5	139		132	9,541	9,060		
03/08/2020	8.23	12.30	5.64	0.00		0.000			33.0	10.1	7.62	162	160	11,119	10,982		7.71	3.5	187	152	174	12,835	11,943		
03/09/2020	8.59	12.32	5.58	0.00		0.000	50,177		44.0	10.4	7.65	300	296	21,492	21,206		7.69	5.0	158	139	216	11,319	15,474		
03/10/2020	8.98	11.19	3.21	0.01		0.000	41,282		45.0	10.3	7.65	228	272	17,076	20,371		7.73	3.0	159	137	182	11,908	13,631		
03/11/2020	8.06	12.30	5.65	0.00		0.000	42,350		42.0	10.2	7.66	246	294	16,536	19,763		7.77	0.9	112	90	167	7,529	11,226		
03/12/2020	8.06	12.69	5.74	0.00		0.000	19,310		32.0	10.3	7.62	285	582	19,158	39,122		7.74	1.0	113	105	138	7,596	9,276		
03/13/2020	8.25	16.44	5.66	0.00		0.000	3,604		40.0	10.4	7.52	206	254	14,174	17,476		7.55	2.0	98		135	6,743	9,289		
03/14/2020	8.34	13.04	5.50	0.00		0.000	9,466		33.0	18.6	7.33	119	198	8,277	13,772		7.58	2.0	90		128	6,260	8,903		
03/15/2020	7.37	12.25	5.70	0.00		0.000	6,122		33.0	10.4	7.71	179	204	11,002	12,539		7.81	1.0	116	94	173	7,130	10,634		
03/16/2020	7.99	13.04	5.36	0.00		0.000	34,058		21.0	10.2	7.72	258	328	17,192	21,857		7.80	1.0	122	102	155	8,130	10,329		
03/17/2020	7.78	13.24	5.28	0.00		0.000	37,467		26.0	10.2	7.68	246	386	15,962	25,046		7.81	0.5	104	87	182	6,748	11,809		
03/18/2020	7.18	12.36	5.44	0.24		0.000	29,344		28.0	10.1	7.63	252	320	15,090	19,162		7.72	0.5	164	148	168	9,821	10,060		
03/19/2020	7.75	15.33	6.20	0.31		0.000	21,662		31.0	11.8	7.63	204	296	13,186	19,132		7.72	0.5	107	86	117	6,916	7,562		
03/20/2020	9.72	15.33	5.97	0.00		0.000	51,471		40.0	10.7	7.60	102	302	8,269	24,482		7.61		107		150	8,674	12,160		
03/21/2020	9.12	12.81	5.76	0.00		0.000	24,756		38.0	10.3	7.59	122	262	9,279	19,928		7.60	1.5	122		159	9,279	12,094		
03/22/2020	8.20	12.87	5.77	0.00		0.000	3,277		21.0	10.2	7.66	311	328	21,269	22,431		7.75	0.8	103	87	150	7,044	10,258		
03/23/2020	7.90	13.24	5.77	1.29		0.000	46,218		30.0	10.1	7.66	326	458	21,479	30,176		7.79	1.0	115	99	177	7,577	11,662		
03/24/2020	8.85	20.50	8.77	0.00		0.000	22,474		33.0	10.3	7.68	357	616	26,350	45,466		7.70	14.0	118	84	150	8,709	11,071		
03/25/2020	8.70	16.65	8.51	0.00		0.000	49,058		31.0	10.1	7.75	339	498	24,597	36,134		7.83	1.2	113	99	135	8,199	9,795		
03/26/2020	11.45	15.57	9.00	0.00		0.000	32,615		34.0	10.2	7.71	360	426	34,377	40,680		7.79	0.8	104	87	153	9,931	14,610		
03/27/2020	12.28	17.40	8.57	0.00		0.000	43,049		39.0	10.4	7.63	215	344	22,019	35,231		7.58	3.0	122	108	153	12,495	15,670		
03/28/2020	11.45	14.64	9.04	0.25		0.000			28.0	10.4	7.89	189	372	18,048	35,523		7.52	3.0	86	69	96	8,212	9,167		
03/29/2020	11.73	25.99	10.51	0.84		0.145			30.0	10.7	7.67	318	724	31,109	70,828		7.71	2.1	118	91	117	11,544	11,446		
03/30/2020	15.55	18.85	10.92	0.07		0.000	51,552		38.0	10.3	7.72	202	358	26,197	46,428		7.70	1.0	102	88	132	13,228	17,119		
03/31/2020	14.02	17.17	10.04	0.00		0.000	61,027		35.0	10.3	7.62	172	252	20,111	29,466		7.69	1.0	111	87	102	12,979	11,927		
MMAVG	8.46																								
Min.	7.2	11.2	0.0	0.0		0.000	2,330		21.0	10.0	7.33	102	134	8,269	10,930		7.48	0.3	81	67	96	6260	7562		
Max.	15.6	26.0	10.9	1.3		0.145	61,027		45.0	18.6	7.89	360	724	34,377	70,828		7.83	14.0	187	152	216	13228	17119		
Total	291.5	453.6	202.2	3.1		0.145	842,300																		
Average	9.4	14.6	6.5	0.1		0.005	30,082		33.74	10.60	7.65	231	337	17997	26753		7.69	1.9	117	99	147	9049	11337		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
03/01/2020	6.63	<0.10	7.8	4.4	4.8	636	392	6	8.7	9.1	2.3	0.00	0.00	0.00	0.00						96.160	94.179	7.50	5.3	8.2	5.8	7.09	4.2	11.6	8.6					
03/02/2020	6.84	<0.10	7.2	4.6	3.8	563	297	2	9.1	8.9	2.5	0.00	0.00	0.00	0.00	0.14	11	0.13	10	0.04	98.561	98.209	7.48	4.6	7.4	5.8	7.14	5.2	24.8	22.2					
03/03/2020	6.72	<0.10	9.6	6.0	4.9	807	412	12	9.8	8.6	1.9	0.00	0.00	0.00	0.00						98.008	97.241	7.60	4.7	9.0	7.2	7.25	3.4	9.8	8.8					
03/04/2020	6.86	<0.10	8.6	4.8	6.0	723	504	15	10.1	8.6	2.9	0.00	0.00	0.00	0.00						97.087	96.718	7.57	5.0	9.4	6.2	7.27	3.7	5.8	2.8					
03/05/2020	6.77	<0.10	7.8	5.0	7.7	606	599	105	10.2	7.7	3.2	0.00	0.00	0.00	0.00						97.083	97.365	7.58	6.4	9.2	6.8	7.15	5.7	9.8	7.8					
03/06/2020	6.92	<0.10	4.6	2.2	4.9	350	373	38	10.1	8.2	3.1	0.00	0.00	0.00	0.00						97.667	98.284	7.52	6.7	9.4	5.2	6.99	3.1	11.2	7.4					
03/07/2020	6.96	0.01	2.6		3.2	178	220	8	9.8	8.8	1.2	0.00	0.00	0.00	0.00						97.612	98.818	7.46	5.4	10.4		6.93	3.3	12.0						
03/08/2020	6.88	0.10	6.8	4.4	4.7	467	323	2	9.9	9.0	1.1	0.00	0.00	0.00	0.00						97.099	95.750	7.56	5.3	8.8	8.2	6.93	4.3	11.2	8.4					
03/09/2020	6.84	<0.10	5.6	3.4	4.7	401	337	24	10.3	8.6	3.8	0.00	0.00	0.00	0.00	0.15	11	0.48	34	0.03	98.433	98.108	7.59	5.4	6.6	5.6	7.21	3.4	7.4	6.0					
03/10/2020	6.88	<0.10	9.0	5.6	5.8	674	434	7	10.9	8.4	4.3	0.00	0.00	0.00	0.00						97.456	96.691	7.64	9.6	19.0	16.2	7.20	3.5	9.2	7.0					
03/11/2020	6.91	<0.10	6.0	4.8	5.6	403	376	7	11.2	8.3	3.5	0.00	0.00	0.00	0.00						97.724	97.959	7.59	6.9	11.0	8.6	7.18	3.9	11.2	8.0	43.00	50.00	<0.50	15.00	<0.20
03/12/2020	7.00	<0.10	7.0	4.8	6.4	471	430	13	10.8	8.4	4.8	0.00	0.00	0.00	0.00						97.754	98.797	7.50	6.2	11.4	10.0	7.07	5.3	12.6	9.2					
03/13/2020	6.83	<0.10	2.2		2.7	151	186	13	11.2	8.6	3.7	0.00	0.00	0.00	0.00						98.689	99.134	7.45	6.3	7.6		6.91	4.2	6.8						
03/14/2020	6.85	0.01	-4.2		2.9	-292	202	9	10.4	8.5	1.6	0.00	0.00	0.00	0.00						97.563	102.121	7.39	4.6	7.8		7.35								
03/15/2020	6.94	0.01	8.4	4.2	4.4	516	270	7	10.4	8.5	1.4	0.00	0.00	0.00	0.00						97.542	95.882	7.56	4.7	9.0	7.4	7.20	3.3	9.2	7.0					
03/16/2020	6.94	<0.10	7.4	4.4	6.4	493	426	7	10.4	8.6	2.9	0.00	0.00	0.00	0.00	0.16	11	0.13	9	0.12	97.519	97.744	7.62	4.9	9.0	6.6	7.12	3.6	9.8	7.0					
03/17/2020	6.91	<0.10	7.6	5.2	5.9	493	383	5	10.7	8.3	6.9	0.00	0.00	0.00	0.00						97.602	98.031	7.60	4.9	10.2	7.6	7.16	4.3	10.2	7.4					
03/18/2020	6.96	<0.10	7.8	5.4	6.0	467	359	14	10.6	8.3	2.3	0.00	0.00	0.00	0.00						97.619	97.563	7.55	4.5	8.4	6.8	7.14	3.9	9.6	5.8					
03/19/2020	6.84	<0.10	8.2	6.2	5.0	530	323	6	10.8	8.3	2.9	0.00	0.00	0.00	0.00						97.549	97.230	7.51	4.6	8.0	4.6	7.08	3.3	10.0	7.6					
03/20/2020	6.88	<0.10	8.6		5.0	697	405	14	10.6	8.3	2.2	0.00	0.00	0.00	0.00						95.098	97.152	7.39	4.5	10.4		6.93	3.3	9.8						
03/21/2020	6.78	0.00	8.8		4.4	669	335	7	10.9	8.7	2.9	0.00	0.00	0.00	0.00						96.393	96.641	7.38	4.4	11.2		6.87	3.0	12.6						
03/22/2020	6.79	0.00	6.2	4.2	4.4	424	301	3	10.5	9.0	1.5	0.00	0.00	0.00	0.00						98.585	98.110	7.56	4.2	7.2	6.4	7.10	3.1	7.2	5.8					
03/23/2020	6.85	<0.10	7.6	4.6	5.2	501	343	3	10.6	8.3	2.2	0.00	0.00	0.00	0.00	0.20	13	0.19	13	0.07	98.405	98.341	7.54	4.8	9.2	7.4	7.14	3.2	9.6	7.6					
03/24/2020	6.80	<0.10	8.4	4.6	6.2	620	458	18	10.6	8.6	3.4	0.00	0.00	0.00	0.00						98.263	98.636	7.42	5.1	11.0	7.4	7.09	4.9	13.2	9.6					
03/25/2020	6.82	<0.10	11.4	7.8	5.2	827	377	18	9.8	8.5	2.8	0.00	0.00	0.00	0.00						98.466	97.711	7.56	5.1	11.0	8.6	7.10	4.0	9.8	7.2					
03/26/2020	6.85	<0.10	9.2	5.2	5.5	879	525	15	10.0	8.5	3.3	0.00	0.00	0.00	0.00						98.472	97.840	7.62	5.6	10.0	7.4	7.20	4.9	9.0	7.0					
03/27/2020	6.80	<0.10	3.6	3.6	5.3	369	543		10.7	7.6	3.4	0.00	0.00	0.00	0.00						97.535	98.953	8.14	4.2	7.4	6.4	8.19	3.5	7.4	6.6					
03/28/2020	6.83	0.00	6.2	5.4	4.8	592	458	6	10.4	8.5	1.7	0.00	0.00	0.00	0.00						97.460	98.333	8.17	3.9	7.8	6.0	8.18	4.1	10.8	8.8					
03/29/2020	6.68	0.00	7.0	5.6	6.5	685	636	12	10.9	7.4	1.8	0.00	0.00	0.00	0.00						97.956	99.033	7.53	4.6	8.6	6.8	7.15	5.4	18.0	14.6					
03/30/2020	6.78	<0.10	8.6	5.8	5.6	1,115	726	8	10.8	7.6	2.5	0.00	0.00	0.00	0.00	0.25	32	0.17	22	0.05	97.228	97.598	7.50	4.8	9.0	7.4	7.14	6.6	15.4	12.8					
03/31/2020	6.87	<0.10	8.0	4.8	5.8	935	678	12	10.1	7.3	3.2	0.00	0.00	0.00	0.00						96.628	96.825	7.50	6.0	11.6	8.8	7.08	5.5	10.4	7.8					
MMAVG															MMAVG	0.60																		
Min.	6.6	0.00	-4	2	3	-292	186	2	8.7	7.3	1			0.00	0.00	0.14	11	0.13	9	0.03	95.10	94.18	7.4	3.9	6.6	4.6	6.9	3.0	5.8	2.8	43.0	50	<0.50	15.0	<0.20
Max.	7.0	0.10	11	8	8	1115	726	105	11.2	9.1	7			0.00	0.00	0.25	32	0.48	34	0.12	98.69	102.12	8.2	9.6	19.0	16.2	8.2	6.6	24.8	22.2	43.0	50	<0.50	15.0	<0.20
Total																																			
Average	6.8	<0.08	7	5	5	547	407	9	10.4	8.4	3			0.00	0.00	0.18	16	0.22	18	0.06	97.59	97.77	7.6	5.3	9.5	7.4	7.2	4.1	10.8	8.4	43.0	50	<0.50	15.0	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
03/01/2020	6,270	7,260	5,130	5,950	14,910	13,340	6.45	5.75	1,296,000	1,300,320	43,794	50,709					75	73	6,790	6,860	5,350	5,650	14,720	14,610	6.29	6.47	1,752,480	1,753,920	78,487	79,296					90	88
03/02/2020	5,850	7,280	5,550	6,430	14,330	13,680	5.70	5.00	1,401,120	1,412,640	40,861	50,849	2,808	23,494	2,692	23,597	74	65	6,520	5,830	5,870	5,630	12,580	12,010	5.80	6.00	1,981,440	1,965,600	75,366	67,390	2,741	24,077	2,642	23,797	81	91
03/03/2020	6,710	6,970	5,710	5,750	15,360	15,480	3.85	5.40	1,408,320	1,405,440	38,054	39,528	2,313	19,024	2,344	18,936	64	67	7,120	7,140	5,910	5,840	15,690	15,290	4.46	5.70	1,874,880	1,879,200	86,694	65,502	2,931	22,397	3,055	23,961	79	81
03/04/2020	6,770	7,000	5,700	6,030	15,410	15,410	4.70	5.50	1,445,760	1,432,800	38,394	39,698					80	81	7,270	6,910	6,000	5,670	14,720	14,560	5.20	5.70	1,742,400	1,710,720	66,695	63,392					92	98
03/05/2020	6,580	4,960	5,130	3,970	14,210	14,550	6.83	7.64	1,509,120	1,512,000	37,316	28,129	1,714	14,465	1,778	14,649	79	117	5,510	5,320	4,650	4,640	13,910	15,430	5.24	5.82	2,034,720	2,005,920	50,549	48,806	1,555	14,588	1,625	14,609	113	124
03/06/2020	5,790	6,940	5,470	5,810	15,810	15,200	6.10	7.10	1,296,000	1,411,200	32,836	39,358	1,943	14,736	1,824	14,387	92	87	6,460	5,370	6,020	5,220	14,870	12,780			1,703,520	1,808,640	59,264	49,264	2,157	15,821	1,816	15,910	108	130
03/07/2020	6,940	6,870	5,660	5,890	15,500	14,610	6.66	7.61	1,432,800	1,431,360	39,358	38,961	1,726	14,186	1,705	14,178	75	86	6,960	6,770	5,610	5,800	15,260	14,650	4.27	5.22	1,895,040	1,897,920	63,851	62,108	1,838	14,439	1,772	14,501	98	105
03/08/2020	6,440	6,970	5,760	5,670	14,170	14,490	7.36	7.32	1,059,840	1,054,080	36,523	39,528	1,743	14,084	1,741	14,348	78	79	6,620	6,750	5,520	5,510	14,660	14,740	5.19	5.39	1,401,120	1,399,680	60,732	61,925	1,750	14,310	1,760	14,319	98	96
03/09/2020	6,860	7,370	5,660	6,010	16,340	15,210	6.63	7.55	1,215,360	1,218,240	38,904	41,797	1,924	14,119	1,797	14,165	66	68	7,800	6,990	6,350	5,850	15,590	14,660	4.56	4.50	1,621,440	1,624,320	71,557	64,126	1,915	14,545	1,716	14,134	72	82
03/10/2020	6,780	7,540	5,740	6,320	16,360	14,780	6.15	7.22	1,500,480	1,507,680	38,451	42,761	1,269	14,152	1,834	14,423	59	61	7,150	7,440	5,830	6,180	16,080	15,460	4.51	4.45	2,005,920	1,997,280	65,594	68,255	1,940	14,466	1,854	14,383	73	73
03/11/2020	7,450	7,650	6,040	6,320	18,090	15,700	5.93	7.25	1,180,800	1,180,800	42,250	43,385	1,938	14,224	1,839	14,495	62	69	7,410	7,580	6,040	6,110	15,920	15,930	4.76	4.39	1,569,600	1,569,600	67,979	69,539	1,931	14,536	1,913	14,406	86	91
03/12/2020	7,040	7,300	5,570	6,100	17,270	15,970	6.32	7.16	1,177,920	1,172,160	39,925	41,400	2,182	15,150	2,050	15,393	60	69	6,930	6,840	5,930	5,940	15,430	14,780	4.85	4.85	1,565,280	1,569,600	63,576	62,750	1,847	14,355	1,769	14,348	78	82
03/13/2020	6,850	7,440	5,500	6,270	17,190	16,710	5.31	6.86	1,519,200	1,617,120	38,848	42,194	2,093	14,532	1,951	14,648	60	67	7,490	7,490	6,130	6,180	15,370	14,890	5.57	3.43	2,132,640	2,144,160	68,713	68,713	1,871	14,594	1,819	14,644	80	81
03/14/2020	5,930	5,460	5,240	5,400	15,570	16,950	6.43	7.60	1,245,600	1,265,760	33,630	30,965	1,894	14,422	2,034	14,399	73	90	5,720	5,830	5,600	5,620	14,260	14,530	3.12	4.45	1,707,840	1,712,160	52,475	53,484	1,720	14,466	1,760	14,523	117	117
03/15/2020	5,230	5,990	5,130	5,340	14,280	17,060	6.75	7.80	1,175,040	1,152,000	29,660	33,970			4,096	28,789	82	77	5,880	5,000	5,650	4,530	14,730	13,380	4.83	4.77	1,565,280	1,562,400	53,943	45,870	1,776	14,458	1,492	13,368	105	130
03/16/2020	6,720	5,930	5,360	4,670	16,290	16,040	6.80	7.70	1,103,040	1,215,360	38,110	33,630	1,832	14,368	1,961	14,204	70	79	6,040	6,450	4,740	3,830	15,450	12,970	4.96	5.60	1,632,960	1,630,080	55,411	59,172	1,872	14,526	1,556	14,388	109	104
03/17/2020	7,350	7,700	6,080	6,350	15,830	15,890	6.41	6.77	1,284,480	1,281,600	41,683	43,668	1,803	14,085	1,981	14,439	68	70	7,220	7,220	5,910	5,960	15,190	14,920	4.38	4.66	1,725,120	1,715,040	66,236	66,236	1,841	14,536	1,786	14,355	90	87
03/18/2020	7,190	7,280	6,130	6,330	15,730	15,130	5.99	6.99	970,560	966,240	40,776	41,286	1,838	14,164	1,902	14,354	65	74	6,830	6,560	6,090	5,920	14,850	14,150	2.71	3.96	1,316,160	1,310,400	62,658	60,181	1,783	14,395	1,707	14,465	85	96
03/19/2020	7,160	7,230	5,920	5,930	15,620	16,500	7.00	7.10	1,032,480	1,039,680	40,606	41,003	1,889	14,521	1,964	14,420	56	58	6,090	7,300	4,860	5,870	15,300	14,990	6.00	8.00	1,399,680	1,391,040	55,870	66,970	1,930	14,948	1,752	14,406	82	74
03/20/2020	7,100	7,310	5,910	5,960	16,590	16,210	6.02	7.42	1,252,800	1,252,800	40,266	41,456	1,850	13,857	1,971	14,379	61	66	6,870	6,830	5,660	5,470	14,640	14,870	4.61	4.45	1,684,800	1,684,800	63,025	62,658	1,774	14,468	1,764	14,289	84	92
03/21/2020	6,980	7,370	5,850	6,190	16,380	16,490	6.32	7.57	1,008,000	1,008,000	39,585	41,797	1,933	14,149	1,999	14,537	67	68	6,710	6,790	5,530	5,480	14,950	14,930	4.14	5.11	1,440,000	1,440,000	61,558	62,291	1,791	14,364	1,789	14,364	98	96
03/22/2020	7,180	7,470	5,750	6,070	16,090	16,490	6.55	7.33	950,400	950,400	40,719	42,364	1,924	14,210	1,966	14,293	66	66	6,940	6,950	5,730	5,610	14,800	14,700	4.26	5.06	1,267,200	1,267,200	63,668	63,759	1,747	14,150	1,755	14,312	95	94
03/23/2020	6,910	6,520	5,940	5,910	17,430	17,490	6.99	7.66	993,600	993,600	39,188	36,976	2,004	14,339	2,035	14,364	70	80	7,170	6,770	5,890	5,650	15,710	15,520	5.34	5.46	1,324,800	1,324,800	65,778	62,108	1,902	14,519	1,875	14,483	91	92
03/24/2020	7,020	7,350	5,820	6,070	17,260	16,260	2.62	3.90	1,584,000	1,584,000	39,812	41,683	2,026	14,264	1,956	14,418	60	61	7,030	6,880	5,780	5,690	15,410	14,660	3.05	4.16	2,116,800	2,116,800	64,493	63,117	1,878	14,609	1,741	14,240	84	87
03/25/2020	6,860	7,110	5,840	5,820	16,450	17,070	6.50	7.51	1,756,800	1,756,800	38,904	40,322	1,959	14,648	2,020	14,232	67	68	6,760	6,620	5,540	5,420	15,610	15,090	5.31	5.29	2,448,000	2,448,000	62,016	60,732	1,888	14,499	1,809	14,378	89	98
03/26/2020	6,820	7,490	5,800	6,230	15,440	16,630	6.90	7.58	1,457,280	1,457,280	38,678	42,477	1,823	14,189	1,985	14,232	66	69	6,850	6,730	5,640	5,220	15,440	16,050	5.33	5.45	1,944,000	1,944,000	62,842	61,741	1,812	14,073	1,936	14,461	95	89
03/27/2020	7,130	7,550	5,450	5,760	17,110	18,100	4.11	5.89	1,670,400	1,670,400	40,436	42,818	2,018	14,535	2,140	14,370	70	66	6,670	6,470	5,030	4,970	16,110	16,100	5.27	5.89	2,217,600	2,217,600	61,191	59,356	1,073	14,525	1,973	14,691	90	93
03/28/2020	6,520	7,540	5,930	6,260	15,910	17,120	6.00	6.90	1,568,160	1,529,280	36,976	42,761					58	53	7,240	6,090	5,950	5,630	14,930	14,260	4.50	4.50	2,144,160	2,311,200	66,420	55,870					64	79
03/29/2020	7,550	7,430	6,130	6,330	16,030	17,350	6.90	8.00	1,827,360	1,802,880	42,818	42,137					50	54	7,270	6,960	6,080	5,720	15,390	14,340	5.70	5.60	2,214,720	2,206,080	66,695	63,851					61	65
03/30/2020	6,850	7,190	5,520	5,800	15,970	15,280	2.77	4.63	2,193,120	2,180,160	38,848	40,776	1,923	14,409	1,980	14,555	66	65	6,260	6,230	5,110	5,030	14,040	14,000	3.83	4.70	2,897,280	2,900,160	57,429	57,154	1,679	14,337	1,698	14,542	99	100
03/31/2020	7,080	7,590	5,750	6,160	16,190	16,320	6.42	7.44	1,735,200	1,738,080	40,152	43,044	1,893	14,400	1,942	14,400	68	69	6,510	6,400	5,390	5,230	14,460	14,400	5.37	5.14	2,304,000	2,311,200	59,723	58,714	1,764	14,626	1,757	14,626	101	106
MMAVG																																				
Min.	5,230	4,960	5,130	3,970	14,170	13,340	3	4	950,400	950,400	29,660	28,129	1,269	13,857	1,705	14,165	50	53	5,510	5,000	4,650	3,830	12,580	12,010	3	3	1,267,200	1,267,200	50,549	45,870	1,073	14,073	1,492	13,368	61	65
Max.	7,550	7,700	6,130	6,430	18,090	18,100	7	8	2,193,120	2,180,160	43,794	50,849	2,808	23,494	4,096	28,789	92	117	7,800	7,580	6,350	6,180	16,110	16,100	6	8	2,897,280	2,900,160	78,487	79,296	2,931	24,077	3,055	23,961	117	130
Total									42,251,040	42,500,160	1,206,361	1,261,430	50,262	386,726	55,487	417,604											56,630,880	56,819,520	1,959,113	1,914,330	50,706	409,627	49,891	408,903		
Average	6,771	7,066	5,683	5,906	15,972	15,920	6	7	1,362,937	1,370,973	38,915	40,691	1,933	14,874	2,055	15,467	68	72	6,777	6,625	5,658	5,518	15,035	14,634	5	5	1,826,803	1,832,888	63,197	61,753	1,878	15,171	1,848	15,145	90	94

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
04/01/2020	12.68	15.63	9.24	0.00		0.000	66,858		30.0	10.4	7.60	288	410	30,456	43,358		7.72	0.6	96	90	150	10,152	15,863		
04/02/2020	12.09	18.44	9.56	0.14		0.000	51,138		34.0	10.4	7.65	204	298	20,569	30,048		7.72	0.7	97	81	122	9,781	12,301		
04/03/2020	13.45	21.00	12.45	1.12		0.000			42.0	10.3	6.86	108	114	12,115	12,788		7.72	3.0	74	63	90	8,301	10,096		
04/04/2020	17.10	18.33	11.13	0.00		0.000	144		45.0	10.4	6.86	66	72	9,413	10,268		7.37	7.0	17	13	59	2,424	8,414		
04/05/2020	15.04	17.54	10.24	0.00		0.000			47.0	10.5	7.74	78	66	9,784	8,279		7.70	0.5	71	64	81	8,906	10,160		
04/06/2020	13.95	17.02	9.77	0.00		0.000	64,135		34.0	10.6	7.58	258	380	30,016	44,210		7.59	0.5	69	59	114	8,028	13,263		
04/07/2020	12.81	15.35	8.89	0.00		0.000	53,199		37.0	10.7	7.59	165	194	17,628	20,726		7.67	0.6	97	86	158	10,363	16,880		
04/08/2020	12.12	15.02	8.25	0.01		0.000	75,318		45.0	10.6	7.70	191	232	19,306	23,451		7.68	0.9	115	97	153	11,624	15,465		
04/09/2020	11.31	27.13	9.17	0.59		0.286			35.0	10.8	7.67	179	280	16,884	26,411		7.73	0.6	82	74	116	7,735	10,942		
04/10/2020	13.70	15.55	8.62	0.21		0.000	49,271		34.0	10.4	7.48	126	152	14,397	17,367		7.46	1.5	107	86	141	12,226	16,110		
04/11/2020	11.25	14.52	7.63	0.00		0.000	6,058		35.0	10.4	7.50	96	146	9,007	13,698		7.56	0.7	90	71	84	8,444	7,881		
04/12/2020	10.49	14.16	7.97	0.12		0.000	2,351		47.0	10.4	7.53	60	80	5,249	6,999		7.53	0.5	21	73	66	1,837	5,774		
04/13/2020	10.91	31.63	8.74	1.56		4.850	3,617		54.0	10.5	7.40	108	162	9,827	14,740		7.33		92	77	63	8,371	5,732		
04/14/2020	15.65	19.73	11.84	0.00		0.000	58,963		43.0	10.5	7.35	69	378	9,006	49,337		7.31	1.0	71	66	96	9,267	12,530		
04/15/2020	12.84	17.08	10.77	0.04		0.000	76,370		40.0	10.6	7.50	105	316	11,244	33,839		7.44	1.0	96	89	105	10,280	11,244		
04/16/2020	11.00	16.91	9.83	0.00		0.000	67,257		34.0	10.2	7.40	210	346	19,265	31,742		7.44	0.8	76	73	120	6,972	11,009		
04/17/2020	12.56	15.41	9.89	0.00		0.000	60,146		33.0	10.3	7.36	57	276	5,971	28,911		7.35	0.6	95	89	75	9,951	7,856		
04/18/2020	12.12	18.98	9.93	0.50		0.000			31.0	10.3	7.30	90	88	9,097	8,895		7.39	3.0	25	25	72	2,527	7,278		
04/19/2020	12.86	15.82	9.46	0.00		0.000	10,415		45.0	10.2	7.32	60	104	6,435	11,154		7.49	5.0	52	63	102	5,577	10,940		
04/20/2020	12.38	15.88	9.10	0.00		0.000	97,257		50.0	10.2	7.19	144	134	14,868	13,835		7.39	7.0	7	17	60	723	6,195		
04/21/2020	11.38	27.78	9.02	0.00		0.359	61,267		48.0	10.4	6.86	110	416	10,440	39,482		7.40	3.0	1	61	75	95	7,118		
04/22/2020	13.19	15.90	8.69	0.46		0.000	57,235		35.0	10.3	6.80	114	214	12,541	23,541		7.30	6.0	32	62	78	3,520	8,580		
04/23/2020	11.25	14.93	7.93	0.05		0.000	85,972		46.0	10.2	6.86	131	124	12,291	11,634		7.20		2	60	102	188	9,570		
04/24/2020	10.88	15.19	8.19	0.07		0.000	38,557		50.0	10.3	6.86	170	230	15,426	20,870		6.90	4.0	65	59	99	5,898	8,983		
04/25/2020	10.71	14.41	7.20	0.00		0.000	3,940		53.0	10.4	7.70	147	140	13,130	12,505		7.57	0.8	14	61	78	1,250	6,967		
04/26/2020	10.01	15.49	7.84	0.60		0.000	253		43.0	10.8	7.10	93	196	7,764	16,363		7.55	1.0	38	53	108	3,172	9,016		
04/27/2020	12.50	18.73	10.26	1.10		0.000	26,620		37.0	10.2	7.27	182	220	18,974	22,935		7.26	1.0	49	61	108	5,108	11,259		
04/28/2020	13.80	16.60	8.95	0.00		0.000	73,121		40.0	10.3	7.67	237	236	27,277	27,162		7.74	2.0	62	64	120	7,136	13,811		
04/29/2020	11.60	15.50	8.60	0.00		0.000	82,811		39.0	10.3	7.57	182	116	17,607	11,222		7.69	1.0	76	66	126	7,353	12,190		
04/30/2020	16.74	28.49		1.10		0.859	15,540		45.0	10.6	7.25	201	142	28,062	19,825		7.35	1.5	62	58	128	8,656	17,870		
MMAVG	8.44																								
Min.	10.0	14.2	7.2	0.0		0.000	144		30.0	10.2	6.80	57	66	5,249	6,999		6.90	0.5	1	13	59	95	5732		
Max.	17.1	31.6	12.5	1.6		4.850	97,257		54.0	10.8	7.74	288	416	30,456	49,337		7.74	7.0	115	97	158	12226	17870		
Total	378.4	544.2	269.2	7.7		6.354	1,187,813																		
Average	12.6	18.1	9.3	0.3		0.212	45,685		41.03	10.42	7.35	141	209	14802	21853		7.49	2.0	62	65	102	6529	10710		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																			PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
04/01/2020	6.87	<0.10	8.8	6.4	6.2	931	656	12	10.2	7.2	3.0	0.00	0.00	0.00	0.00						97.847	97.854	7.53	5.9	11.0	8.4	7.10	4.3	10.2	8.8					
04/02/2020	6.80	<0.10	8.2	7.0	6.9	827	696	13	10.6	7.2	3.2	0.00	0.00	0.00	0.00						96.618	97.248	7.55	4.7	10.2	8.0	7.07	4.7	13.6	11.4					
04/03/2020	6.84	<0.10	9.4	7.0	3.6	1,054	404	21	10.7	7.4	3.7	0.00	0.00	0.00	0.00						96.667	91.754	7.55	4.6	9.8	8.0	7.19	4.2	11.6	8.6					
04/04/2020	6.86	<0.10	6.4	6.4	4.7	913	670	15	10.7	7.1	3.0	0.00	0.00	0.00	0.00						92.879	91.111	7.41	46.2	71.0	60.4	7.09	4.2	9.2	8.2					
04/05/2020	6.67	<0.10	5.8	4.8	4.8	728	602	8	10.5	7.7	2.0	0.00	0.00	0.00	0.00	0.20	25				93.846	91.212	7.57	5.4	8.2	6.6	7.19	4.4	8.0	6.6					
04/06/2020	6.81	<0.10	8.4	5.8	5.5	977	640	9	10.7	7.7	2.7	0.00	0.00	0.00	0.00	0.21	24	0.10	12		97.868	97.789	7.49	6.1	9.4	8.0	7.11	4.0	8.6	7.4					
04/07/2020	6.84	<0.10	7.2	5.0	4.8	769	513	9	11.0	7.4	3.8	0.00	0.00	0.00	0.00	0.26	28				97.091	96.289	7.52	5.3	11.2	8.0	7.09	3.2	7.4	6.4					
04/08/2020	6.77	<0.10	11.2	7.0	5.7	1,132	576	11	11.7	7.0	3.3	0.00	0.00	0.00	0.00						97.016	95.172	7.48	153.0	12.2	9.6	7.05	3.8	9.6	6.2	53.00	50.00	<0.50	12.00	<0.20
04/09/2020	6.79	<0.10	12.4	7.8	9.3	1,170	877	11	11.7	6.6	2.9	0.00	0.00	0.00	0.00						94.804	95.571	7.55	5.4	12.4	8.0	7.17	4.3	12.0	10.4					
04/10/2020	6.76	<0.10	9.4	6.8	8.5	1,074	971	13	10.7	7.7	3.3	0.00	0.00	0.00	0.00						93.254	93.816	7.41	5.5	7.2	9.0	6.99	3.6	13.8	6.8					
04/11/2020	6.76	0.10	16.8	7.6	4.4	1,576	413	2	10.8	8.7	1.7	0.00	0.00	0.00	0.00						95.417	88.493	7.44	5.3	11.6	8.8	6.92	2.8	11.6	11.6					
04/12/2020	6.85	0.10	7.4	8.4	3.2	647	280	5	11.1	8.7	1.7	0.00	0.00	0.00	0.00	0.48	42	0.29	25		94.667	90.750	7.41	3.1	2.2	8.4	6.90	2.1	5.0	5.0					
04/13/2020	6.75	0.00	19.4	16.6	21.3	1,765	1,938	4	11.8	8.5	1.7	0.00	0.00	0.00	0.00	0.34	31	0.17	15		80.278	88.025	7.37	3.9	3.6	8.6	6.94	3.6	9.8	10.6					
04/14/2020	6.76	0.10	5.4	6.6	3.7	705	483	6	11.6	7.6	1.9	0.00	0.00	0.00	0.00	0.34	44	0.22	29		94.638	98.571	7.31	3.9	5.8	6.6	6.79	3.0	8.4	8.0					
04/15/2020	6.57	0.00	6.3	5.4	3.7	675	396	6	11.0	7.6	2.1	0.00	0.00	0.00	0.00						96.476	98.006	7.30	4.6	7.7	6.3	6.80	3.5	7.1	6.3					
04/16/2020	6.71	0.10	7.6	7.0	4.5	697	413	0	10.9	7.9	1.3	0.00	0.00	0.00	0.00			0.54	50		97.857	97.803	7.21	3.5	10.2	9.4	6.77	2.8	9.4	8.2					
04/17/2020	6.51	0.00	9.2	7.4	4.6	964	482	13	11.0	7.6	2.1	0.00	0.00	0.00	0.00			0.25	26		91.930	96.667	7.23	4.0	10.0	8.0	6.72	2.0	6.8	4.2					
04/18/2020	6.58	0.10	0.2	4.8	3.1	20	313	2	11.1	7.9	1.2	0.00	0.00	0.00	0.00			0.25	25		96.556	99.773	0.72	4.1	6.4	6.0									
04/19/2020	6.54	0.10	5.8	13.4	5.4	622	579	11	10.9	7.8	1.5	0.00	0.00	0.00	0.00			0.25	27		91.000	94.423	7.46	3.1	3.2	9.6	6.95	4.2	5.8	8.6					
04/20/2020	6.56	0.00	4.8	5.2	2.7	496	279	24	11.5	7.9	2.1	0.00	0.00	0.00	0.00	0.87	90	0.11	11		98.125	96.418	7.20	5.3	5.4	7.0	6.99	3.4	1.8	8.2					
04/21/2020	6.86	0.10	5.8	9.4	5.6	550	531	10	11.4	8.5	2.9	0.00	0.00	0.00	0.00	0.71	67	0.50	47		94.909	98.606		3.7	5.8	8.0		2.0	8.2	7.8					
04/22/2020	6.60	0.01	1.2	6.2	2.8	132	308	22	10.9	8.1	4.2	0.00	0.00	0.00	0.00	0.55	61				97.544	99.439	7.40	3.7	1.0	9.0	6.90	4.2	2.2	7.0					
04/23/2020	6.80	0.00	6.4	6.6	2.0	600	188	33	10.9	8.8	3.5	0.00	0.00	0.00	0.00						98.473	94.839		4.0	35.0	39.0		2.0	4.0	6.6					
04/24/2020	6.50	0.00	6.2	5.8	4.3	563	390	1	11.5	7.6	3.0	0.00	0.00	0.00	0.00						97.471	97.304	6.93	5.0	7.2	7.2	7.10	2.9	5.0	5.4					
04/25/2020	6.86	0.00	6.8	12.8	3.6	607	322	0	11.5	8.4	3.4	0.00	0.00	0.00	0.00	0.22	20	0.06	5		97.551	95.143	8.11	4.2	6.0	18.6	7.81	2.4	4.8	15.8					
04/26/2020	6.67	<0.10	2.4	3.6	3.4	200	284	12	11.9	8.5	2.1	0.00	0.00	0.00	0.00						96.344	98.776	8.05	5.1	3.6	5.4	8.17	2.2	3.4	4.6					
04/27/2020	6.54	<0.10	0.4	5.8	2.9	42	302	10	11.9	7.1	2.4	0.00	0.00	0.00	0.00	0.15	16				98.407	99.818	7.69	3.8	21.6	5.4	7.73	2.9	8.0	9.2					
04/28/2020	7.51	<0.10	5.0	6.2	7.1	575	817	313	11.1	7.5	2.2	0.00	0.00	0.00	0.00						97.004	97.881	8.18	4.2	6.0	7.8	8.16	6.8	7.6	9.4					
04/29/2020	6.77	<0.10	5.2	3.6	6.8	503	658	19	11.5	8.6	2.4	0.00	0.00	0.00	0.00						96.264	95.517	8.25	5.1	7.6	6.8	8.14	3.0	7.4	6.4					
04/30/2020	6.78	<0.10	8.0	7.0	9.3	1,117	1,298	15	11.6	8.4	2.1	0.00	0.00	0.00	0.00						95.373	94.366	8.15	5.5	8.4	8.2	8.11	4.1	8.6	7.6					
MMAVG													MMAVG		0.56																				
Min.	6.5	0.00	0	4	2	20	188	0	10.2	6.6	1			0.00	0.00	0.15	16	0.06	5		80.28	88.02	0.7	3.1	1.0	5.4	6.7	2.0	1.8	4.2	53.0	50	<0.50	12.0	<0.20
Max.	7.5	0.10	19	17	21	1765	1938	313	11.9	8.8	4			0.00	0.00	0.87	90	0.54	50		98.47	99.82	8.3	153.0	71.0	60.4	8.2	6.8	13.8	15.8	53.0	50	<0.50	12.0	<0.20
Total																																			
Average	6.7	<0.07	7	7	5	754	576	9	11.1	7.8	3			0.00	0.00	0.39	41	0.25	25		95.47	95.61	7.3	10.9	11.0	10.9	7.2	3.5	7.9	8.0	53.0	50	<0.50	12.0	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
04/01/2020	7,100	7,630	5,860	6,090	16,230	16,530	7.42	6.67	1,872,000	1,873,440	40,266	43,271	1,894	13,993	1,946	14,116	69	66	6,880	6,730	5,610	5,550	14,720	14,680	4.79	5.06	2,507,040	2,504,160	63,117	61,741	1,732	14,109	1,752	14,311	102	100
04/02/2020	7,400	7,970	6,040	6,430	17,020	16,840	6.36	7.11	1,512,000	1,517,760	41,967	45,199	4,100	28,915	4,005	28,832	69	69	7,010	6,870	5,650	5,550	15,080	14,900	4.94	4.83	2,001,600	2,003,040	64,310	63,025	3,613	28,729	3,523	28,352	100	100
04/03/2020	7,140	7,590	5,840	6,180	15,710	16,180	6.92	5.69	2,496,960	2,495,520	40,492	43,044	3,737	28,130	2,105	28,807	69	63	6,770	6,660	5,570	5,450	14,330	14,070	4.34	4.52	3,348,000	3,339,360	86,694	61,099					93	98
04/04/2020	7,010	7,440	5,720	6,010	16,710	16,090	7.23	8.45	2,170,080	2,184,480	39,755	42,194					44	52	6,240	6,460	5,110	5,380	14,280	14,050	5.94	5.94	2,903,040	2,905,920	57,246	59,264					71	74
04/05/2020	7,100	7,640	5,860	6,290	16,680	15,960	5.17	5.60	1,877,760	1,883,520	40,266	43,328	1,963	14,108	1,908	14,333	56	58	6,490	6,450	5,390	5,530	14,970	14,440	7.57	4.37	2,507,040	2,505,600	59,539	59,172	1,807	14,500	1,721	14,287	71	78
04/06/2020	7,750	6,760	6,380	5,710	16,760	16,160	6.50	7.50	2,054,880	1,962,720	43,952	38,337	1,991	14,245	1,982	14,704	52	64	6,700	6,570	5,400	5,320	15,030	14,120	6.50	5.50	2,360,160	2,357,280	61,466	60,273	1,785	14,265	1,748	14,674	72	72
04/07/2020	5,990	6,220	5,940	6,140	15,900	16,830	7.20	7.80	1,751,040	1,740,960	33,970	35,275	1,827	14,053	1,898	13,995	72	74	6,870	6,710	5,830	5,550	13,930	13,720	5.80	5.90	2,210,400	2,266,560	63,025	61,558	1,686	14,509	1,665	14,547	73	72
04/08/2020	7,320	7,550	6,160	6,200	16,630	16,320	6.50	6.80	1,680,480	1,595,520	41,513	42,818	2,049	14,774	1,974	14,502	55	57	7,030	6,610	5,890	5,490	15,240	14,470	6.80	5.00	2,131,200	2,141,280	64,493	60,640	1,746	14,352	1,666	14,176	61	68
04/09/2020	6,910	6,550	5,750	5,670	16,430	16,250	6.50	6.00	1,529,280	1,496,160	39,188	37,146	1,843	14,001	1,861	13,891	65	76	6,760	6,330	5,800	5,390	14,120	13,980	4.60	4.60	2,213,280	2,211,840	62,016	58,071	1,675	14,227	1,678	14,396	81	90
04/10/2020	5,900	6,200	5,660	5,660	15,720	16,280	5.60	7.00	1,764,000	1,738,080	33,460	35,161	1,858	14,173	1,942	14,305	76	81	5,770	5,250	5,490	4,420	14,480	13,430	4.80	5.00	2,390,400	2,337,120	52,934	48,164	1,734	14,281	1,689	13,899	95	109
04/11/2020	7,150	7,380	5,800	5,890	16,700	16,490	6.64	7.48	1,512,000	1,512,000	40,549	41,853	1,923	14,221	1,962	14,355	70	72	6,610	6,850	5,330	5,530	14,510	14,540	5.05	5.25	2,016,000	2,016,000	60,640	62,842	1,765	14,584	1,728	14,249	103	99
04/12/2020	7,560	7,910	6,060	6,350	17,560	17,010	3.42	5.40	1,584,000	1,584,000	42,874	44,859	2,128	14,531	2,024	14,270	60	61	6,690	7,500	5,800	5,740	14,950	14,320	4.34	5.64	2,088,000	2,088,000	61,374	68,805	1,773	14,217	1,706	14,284	79	75
04/13/2020	7,040	8,870	5,640	7,040	16,520	17,140	1.90	2.02	2,160,000	2,160,000	39,925	50,304	2,073	14,157	2,017	14,218	71	62	7,880	6,940	6,530	5,540	14,950	13,780	2.89	2.92	3,592,800	3,592,800	72,291	63,668	1,794	14,387	1,719	14,670	89	104
04/14/2020	6,460	7,350	5,400	5,950	14,810	14,790	5.47	6.80	2,376,000	2,376,000	36,636	41,683	1,733	14,082	1,779	14,185	82	75	6,090	6,080	4,900	4,980	13,490	12,850	5.73	6.27	3,182,400	3,182,400	55,870	55,778	1,627	14,457	1,550	14,460	107	107
04/15/2020	7,170	7,360	5,820	5,870	15,790	15,800	5.52	6.15	2,136,960	2,145,600	40,663	41,740	1,692	13,702	1,754	14,219	60	58	6,720	7,410	5,540	6,010	13,910	13,510	5.96	6.54	2,613,600	2,628,000	61,649	67,979	1,594	14,722	1,683	14,458	83	76
04/16/2020	6,830	7,370	5,820	5,990	16,630	16,550	7.03	7.86	1,785,600	1,785,600	38,734	41,797	1,893	13,983	1,900	14,142	73	68	6,600	6,500	5,490	5,290	14,810	14,450	7.16	6.97	2,361,600	2,361,600	60,548	59,631	1,791	14,498	1,743	14,464	91	85
04/17/2020	6,130	8,910	5,850	7,300	15,930	16,460	6.97	7.64	1,631,520	1,625,760	34,764	50,530	1,946	14,523	1,881	14,339	56	39	6,290	6,210	5,010	5,650	14,930	13,970	4.21	4.79	2,162,880	2,157,120	57,704	56,971	1,782	14,313	1,694	14,541	108	110
04/18/2020	7,310	7,970	5,970	6,510	16,170	16,090	6.63	7.26	1,833,120	1,830,240	41,456	45,199	1,869	14,105	1,936	14,408	68	67	6,160	6,380	5,040	5,360	14,110	13,560	6.06	5.66	2,455,200	2,449,440	56,512	58,530	1,718	14,603	1,645	14,545	102	99
04/19/2020	6,420	7,250	5,700	5,980	15,910	15,740	6.99	7.55	1,728,000	1,728,000	36,409	41,116	1,927	14,524	1,868	14,230	75	66	6,570	6,310	5,450	5,310	14,340	14,060	4.90	6.07	2,275,200	2,275,200	60,273	57,888	1,709	14,402	1,619	14,054	70	73
04/20/2020	6,620	6,460	5,720	5,960	14,830	15,170	5.30	7.00	1,693,440	1,686,240	37,543	36,636	1,841	14,359	1,817	14,099	71	74	6,210	6,070	5,620	5,360	14,140	13,040	2.20	5.20	2,171,520	2,077,920	56,971	55,686	1,693	14,360	1,568	14,419	77	92
04/21/2020	6,990	7,290	6,180	5,590	16,130	15,870	5.80	6.80	1,670,400	1,666,080	39,642	41,343	1,810	14,633	1,827	14,490	67	75	7,110	6,690	5,790	5,510	14,350	13,590	5.20	4.90	2,541,600	2,401,920	65,227	61,374	1,704	14,236	1,594	14,066	68	78
04/22/2020	6,260	6,890	5,440	5,640	13,190	14,570	6.20	7.00	1,664,640	1,666,080	35,502	39,075	1,873	13,925	1,867	14,108	67	78	5,930	5,670	5,320	5,230	11,990	11,010	10.00	7.00	2,213,280	2,177,280	54,402	52,017	1,462	14,624	1,342	14,612	76	79
04/23/2020	5,220	3,990	4,920	3,720	12,130	14,290	6.20	7.00	1,735,200	1,740,960	29,604	22,628	1,528	13,889	1,722	14,169	96	113	4,230	5,010	3,910	4,720	10,460	11,870	7.10	6.50	1,869,120	1,872,000	38,806	45,962	1,232	14,127	1,425	14,393	118	104
04/24/2020	6,040	6,980	5,640	5,570	14,700	15,050	6.10	6.80	1,558,080	1,545,120	34,254	39,585	1,594	14,251	1,748	14,284	75	67	6,120	5,910	5,070	4,880	14,030	13,230	5.50	5.70	1,805,760	1,772,640	56,145	54,218	1,665	14,226	1,527	13,840	69	76
04/25/2020	7,090	7,360	5,760	5,930	15,730	15,700	6.65	7.62	1,382,400	1,382,400	40,209	41,740	1,787	14,080	1,828	14,259	52	52	6,030	5,800	4,990	4,750	13,560	14,090	4.66	4.73	1,627,200	1,627,200	55,319	53,209	1,598	14,132	1,653	14,070	71	74
04/26/2020	7,000	6,520	5,140	5,250	16,350	15,790	6.98	7.63	1,157,760	1,160,640	39,698	36,976	1,927	14,405	1,876	14,290	57	68	5,480	5,380	4,550	4,420	14,430	14,470	6.24	6.33	1,386,720	1,382,400	50,274	49,356	1,739	14,454	1,743	14,441	93	99
04/27/2020	5,870	5,790	4,690	4,530	15,320	15,830	6.84	6.82	1,424,160	1,427,040	33,290	32,836	1,917	14,513	1,894	14,361	66	73	5,180	5,280	4,170	4,190	14,200	13,600	5.77	5.75	1,733,760	1,735,200	47,521	48,439	1,726	14,571	1,609	14,188	89	99
04/28/2020	5,370	6,360	4,490	4,910	14,900	16,820	6.82	7.97	1,776,960	1,742,400	30,454	36,069	1,767	14,221	2,001	14,264	65	58	4,850	6,230	3,850	4,460	14,020	14,550	6.12	9.00	1,948,320	1,938,240	44,494	57,154	1,668	14,266	1,743	14,366	93	82
04/29/2020	6,590	6,590	5,400	5,470	15,430	15,960	6.69	7.81	1,517,760	1,513,440	37,373	37,373	1,855	14,414	1,915	14,388	61	67	5,330	5,550	4,660	4,560	12,570	15,440	6.53	5.89	1,814,400	1,814,400	48,897	50,916	1,520	14,501	1,854	14,399	94	99
04/30/2020	6,370	6,760	5,120	5,350	15,050	16,090	6.96	7.36	1,404,000	1,434,240	36,126	38,337	1,767	14,076	1,918	14,290	60	59	5,070	6,220	4,110	5,060	12,880	14,450	6.24	5.44	1,706,400	1,717,920	46,512	57,062	1,532	14,264	1,717	14,247	73	68
MMAVG																																				
Min.	5,220	3,990	4,490	3,720	12,130	14,290	2	2	1,157,760	1,160,640	29,604	22,628	1,528	13,702	1,722	13,891	44	39	4,230	5,010	3,850	4,190	10,460	11,010	2	3	1,386,720	1,382,400	38,806	45,962	1,232	14,109	1,342	13,840	61	68
Max.	7,750	8,910	6,380	7,300	17,560	17,140	7	8	2,496,960	2,495,520	43,952	50,530	4,100	28,915	4,005	28,832	96	113	7,880	7,500	6,530	6,010	15,240	15,440	10	9	3,592,800	3,592,800	72,291	68,805	3,613	28,729	3,523	28,352	118	110
Total									52,440,480	52,200,000	1,140,534	1,207,452	58,112	440,986	57,155	442,853											68,137,920	67,839,840	1,721,683	1,730,492	48,870	416,916	48,304	415,408		
Average	6,704	7,097	5,659	5,839	15,786	16,022	6	7	1,748,016	1,740,000	38,018	40,248	2,004	15,206	1,971	15,271	66	67	6,256	6,288	5,229	5,206	14,094	13,875	6	6	2,271,264	2,261,328	57,389	57,683	1,745	14,890	1,725	14,836	86	88

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
05/01/2020	16.70	26.97	12.51	1.20		2.598			52.0	10.4	7.18	117	144	16,296	20,056		7.26	1.2	52	48	75	7,242	10,446		
05/02/2020	17.54	17.86	10.89	0.00		0.000	4,393		46.0	10.6	7.43	54	144	7,899	21,065		7.32	0.5	62		66	9,070	9,655		
05/03/2020	14.71	17.08	9.70	0.00		0.000	11,269		62.0	10.7	7.45	99	85	12,145	10,428		7.44	0.5	66	65	90	8,097	11,041		
05/04/2020	13.50	15.98	9.58	0.00		0.000	95,116		50.0	10.8	7.60	122	212	13,736	23,869		7.59	0.5	86	71	110	9,683	12,385		
05/05/2020	12.78	15.37	8.48	0.00		0.000	81,684		44.0	10.8	7.41	63	245	6,715	26,113		7.46		74	67	75	7,887	7,994		
05/06/2020	12.27	16.16	7.90	0.00		0.000	92,365		45.0	10.9	7.21	114	168	11,666	17,192		7.26	0.8	87	83	138	8,903	14,122		
05/07/2020	11.36	14.02	7.72	0.00		0.000	110,524		45.0	10.6	7.48	75	198	7,106	18,759		7.53	1.1	95	84	93	9,001	8,811		
05/08/2020	10.51	14.05	7.73	0.29		0.000	60,191		41.0	10.8	7.70	86	66	7,538	5,785		7.72	0.1	58	60	111	5,084	9,730		
05/09/2020	10.51	13.28	8.03	0.00		0.000	3,201		60.0	10.5	7.06	120	106	10,518	9,291		7.51	1.0	65	63	108	5,697	9,467		
05/10/2020	8.35	13.41	6.91	0.00		0.000			65.0	11.1	7.70	152	66	10,585	4,596		7.72	0.5	58	60	138	4,039	9,610		
05/11/2020	9.38	19.52	7.01	0.06		0.095	81,415		60.0	10.5	0.00						7.52	6.0	100	89	141	7,823	11,030		
05/12/2020	9.01	13.28	6.27	0.00		0.000	91,023		48.0	11.1	7.06	252	556	18,936	41,780		7.10	4.0	137	123	147	10,295	11,046		
05/13/2020	9.05	13.75	6.32	0.00		0.000	85,170		52.0	11.4	7.06	138	428	10,416	32,304		7.64	2.0	65	59	153	4,906	11,548		
05/14/2020	8.80	11.97	5.82	0.00		0.000	91,936		65.0	11.8	7.06	236	288	17,321	21,137		7.66	4.0	65	61	215	4,770	15,779		
05/15/2020	8.76	28.82	6.00	0.00		0.300	71,401		70.0	10.9	7.06	128	302	9,351	22,064		7.69	4.0	126	106	131	9,205	9,571		
05/16/2020	10.49	12.87	5.75	0.43		0.000	14,831		63.0	11.2	7.94	182	140	15,923	12,248		7.74	3.0	111	104	152	9,711	13,298		
05/17/2020	8.95	12.36	5.91	0.00		0.000			54.0	11.1	7.92	144	84	10,749	6,270		7.75	3.0	115	107	177	8,584	13,212		
05/18/2020	8.87	12.44	5.94	0.00		0.000	53,987		57.0	10.9	7.91	150	166	11,096	12,280		7.64	2.5	115	107	176	8,507	13,020		
05/19/2020	8.62	11.96	5.48	0.00		0.000	59,889		50.0	10.8	7.85	146	166	10,496	11,934		7.61	1.5	97	94	149	6,973	10,712		
05/20/2020	8.01	11.81	5.09	0.00		0.000	91,414		45.0	11.1	7.79	282	190	18,839	12,693		7.64	2.0	125	113	192	8,350	12,826		
05/21/2020	8.13	11.73	4.82	0.00		0.000	85,423		51.0	11.2	7.63	252	178	17,087	12,069		7.59	2.5	116	103	174	7,865	11,798		
05/22/2020	8.07	11.81	4.78	0.00		0.000	56,298		59.0	10.8	7.66	293	232	19,720	15,614		7.68	2.0	125	119	192	8,413	12,922		
05/23/2020	7.84	11.67	4.59	0.00		0.000	8,126		15.3	11.0	7.40	170	172	11,116	11,246		7.66	1.9	139	123	186	9,089	12,162		
05/24/2020	7.19	11.23	4.58	0.00		0.000			52.0	10.9	7.70	141	192	8,455	11,513		7.61	0.8	144	120	228	8,635	13,672		
05/25/2020	7.34	12.26	4.58	0.00		0.000	1,822		50.0	10.7	7.60	78	526	4,775	32,199		7.58	2.0	139	121	152	8,509	9,305		
05/26/2020	7.28	12.26	3.94	0.00		0.000	78,150		64.0	10.9	7.74	246	256	14,936	15,543		7.62	2.0	155	128	204	9,411	12,386		
05/27/2020	7.28	10.63	4.32	0.00		0.000	86,554		64.0	11.8	7.60	200	386	12,143	23,436		7.49	2.0	187	159	200	11,354	12,143		
05/28/2020	7.19	11.09	3.27	0.00		0.000	82,407		73.0	11.1	7.66	203	342	12,173	20,508		7.42	2.0	181	161	234	10,854	14,032		
05/29/2020	7.19	11.23	3.56	0.00		0.000	69,630		72.0	11.0	7.50	223	586	13,372	35,139		7.23	4.0	209	181	291	12,533	17,450		
05/30/2020	7.09	9.93	3.81	0.00		0.000			71.0	11.3	7.06	162	240	9,579	14,191		7.25	5.0	173	151	210	10,230	12,417		
05/31/2020	6.53	10.36	3.80	0.00		0.000			63.0	11.0	7.06	213	124	11,600	6,753		7.23	12.0	171	146	212	9,313	11,546		
MMAVG	8.35																								
Min.	6.5	9.9	3.3	0.0		0.000	1,822		15.3	10.4	0.00	54	66	4,775	4,596		7.10	0.1	52	48	66	4039	7994		
Max.	17.5	28.8	12.5	1.2		2.598	110,524		73.0	11.8	7.94	293	586	19,720	41,780		7.75	12.0	209	181	291	12533	17450		
Total	299.3	437.2	195.1	2.0		2.993	1,568,219																		
Average	9.7	14.1	6.3	0.1		0.097	62,729		55.11	10.96	7.24	161	233	12076	17603		7.52	2.5	113	103	159	8388	11779		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
05/01/2020	6.53	0.10	13.6	11.4	21.6	1,894	3,008	1011	11.3	7.6	6.2	0.00	0.00	0.00	0.00						81.538	90.556	8.00	5.6	6.4	6.4	7.99	2.9	8.8	7.6					
05/02/2020	6.51	<0.10	6.4		2.7	936	395	16	11.5	7.6	2.6	0.00	0.00	0.00	0.00						95.000	95.556	7.18	3.1	6.0		6.55	2.7	13.4						
05/03/2020	6.50	0.00	0.6	0.2	2.5	74	307	20	12.0	7.9	3.2	0.00	0.00	0.00	0.00	0.14	17				97.475	99.294	7.39	4.0	5.2	4.2	6.78	2.0	4.6	4.4					
05/04/2020	6.72	0.10	6.6	6.0	3.9	743	439	4	12.2	7.6	1.4	0.00	0.00	0.00	0.00	0.29	33	0.29	33		96.803	96.887	7.46	3.4	9.2	7.8	6.92	4.0	11.4	10.8					
05/05/2020	6.71	0.00	6.8	6.1	3.9	725	416	24	12.0	7.7	2.5	0.00	0.00	0.00	0.00	0.38	41				93.810	97.224	7.46	4.2	5.3	4.8	6.86	3.3	8.6	7.4					
05/06/2020	6.74	0.10	5.6	6.2	4.1	573	420	7	12.1	7.5	1.2	0.00	0.00	0.00	0.00						96.404	96.667	7.19	4.2	6.0	5.4	6.58	3.0	9.4	8.6					
05/07/2020	6.52	0.00	4.6	5.8	4.0	436	379	16	12.4	8.1	2.3	0.00	0.00	0.00	0.00						94.667	97.677	7.35	3.3	62.0	59.2	6.84	3.2	4.4	7.4					
05/08/2020	6.73	0.10	6.0	5.2	3.2	526	280	24	12.6	8.5	1.4	0.00	0.00	0.00	0.00	0.22	19				96.279	90.909	7.50	2.4	6.2	6.6	7.05	2.0	4.0	6.8	49.00	79.00	<0.50	9.90	<0.20
05/09/2020	6.65	0.00	6.6	5.8	4.5	579	394	14	12.2	8.6	2.2	0.00	0.00	0.00	0.00						96.250	93.774	7.55	3.6	5.4	6.2	7.45	2.3	7.6	8.2					
05/10/2020	6.64	0.00	6.0	5.2	4.4	418	306	8	12.6	8.4	2.1	0.00	0.00	0.00	0.00	0.19	13				97.105	90.909	7.52	3.5	6.2	6.6	7.05	3.2	4.0	6.8					
05/11/2020	6.65	0.00	9.8	7.8	6.0	767	469	8	12.2	8.6	2.2	0.00	0.00	0.00	0.00	0.18	14						7.58	8.1	6.0	7.2	6.97	3.1	12.2	8.0					
05/12/2020	6.67	0.00	7.2	7.4	2.5	541	188	47	12.9	8.0	3.1	0.00	0.00	0.00	0.00	0.23	17	0.15	11		99.008	98.705	7.20	6.9	14.2	13.8	6.60	2.2	6.2	5.8					
05/13/2020	6.65	0.00	6.2	5.8	4.0	468	302	15	12.7	5.1	1.5	0.00	0.00	0.00	0.00			0.16	12		97.101	98.551	7.51	6.0	7.2	7.2	6.71	2.6	5.0	5.4					
05/14/2020	6.71	0.00	6.8	6.0	4.0	499	294	9	13.2	8.0	3.9	0.00	0.00	0.00	0.00			0.15	11		98.305	97.639	7.53	4.3	8.0	6.0	6.79	2.2	7.2	5.0					
05/15/2020	6.60	0.00	15.0	10.6	9.0	1,096	658	5	13.9	8.3	2.9	0.00	0.00	0.00	0.00						92.969	95.033	7.51	4.4	7.4	6.8	6.70	3.0	11.4	8.2					
05/16/2020	6.70	0.00	3.6	3.4	4.5	315	394	6	14.7	8.1	5.3	0.00	0.00	0.00	0.00	0.10	9	0.06	5		97.527	97.429	8.11	4.3	7.6	7.2	8.19	3.7	7.4	6.8					
05/17/2020	6.79	<0.10	4.4	4.8	4.3	328	321	2	14.4	7.9	2.0	0.00	0.00	0.00	0.00						97.014	94.762	8.31	4.1	6.8	7.4	8.16	2.9	6.6	6.6					
05/18/2020	6.90	<0.10	4.4	5.2	4.3	325	318	4	14.5	7.7	1.9	0.00	0.00	0.00	0.00	0.18	13	0.09	7		97.133	97.349	8.15	3.8	6.6	6.4	8.02	2.7	4.6	4.4					
05/19/2020	6.79	<0.10	3.0	4.8	4.3	216	309	4	14.1	7.8	2.4	0.00	0.00	0.00	0.00						97.055	98.193	8.09	5.5	9.6	9.4	8.10	2.9	3.4	5.4					
05/20/2020	6.77	<0.10	5.4	5.4	5.2	361	347	6	14.2	7.8	2.2	0.00	0.00	0.00	0.00	0.24	16	0.12	8		98.156	97.158	8.03	4.3	5.0	5.8	8.09	3.0	1.0	3.4					
05/21/2020	6.77	<0.10	4.6	5.6	5.1	312	346	5	14.3	7.9	2.5	0.00	0.00	0.00	0.00						97.976	97.416	8.11	4.5	9.0	7.2	8.05	2.8	4.8	5.0					
05/22/2020	6.98	<0.10	6.2	6.0	5.4	417	363	6	15.0	7.9	3.1	0.00	0.00	0.00	0.00						98.157	97.328	8.15	4.8	8.2	7.2	8.24	3.1	4.6	4.2					
05/23/2020	6.86	<0.10	5.8	5.0	5.5	379	360	6	15.3	7.7	2.7	0.00	0.00	0.00	0.00						96.765	96.628	7.60	4.4	7.8	7.6	7.10	3.1	7.2	6.8					
05/24/2020	7.03	0.10	14.0	6.2	3.0	840	180	6	15.2	8.1	1.0	0.00	0.00	0.00	0.00	0.28	17	0.09	5		97.872	92.708	7.46	3.8	16.4	8.4	6.96	2.4	14.6	7.4					
05/25/2020	6.76	0.00	10.4	8.6	3.9	637	239	6	15.4	7.8	2.5	0.00	0.00	0.00	0.00	0.35	21	0.08	5		95.000	98.023	7.47	4.3	12.0	6.0	6.89	2.9	10.6	11.4					
05/26/2020	6.95	0.10	10.6	7.4	5.7	644	346	12	15.9	7.4	1.5	0.00	0.00	0.00	0.00			0.09	5		97.683	95.859	7.44	7.0	18.0	14.6	6.85	2.8	9.0	7.4					
05/27/2020	6.72	0.00	14.6	12.4	5.1	886	310	3	17.6	7.3	2.9	0.00	0.00	0.00	0.00	0.79	48	0.19	12		97.450	96.218	7.43	5.2	13.8	12.0	7.07	3.0	12.0	8.6					
05/28/2020	6.90	0.10	10.8	9.0	5.1	648	306	6	17.4	7.0	1.5	0.00	0.00	0.00	0.00						97.488	96.842	7.49	4.3	10.8	10.4	7.06	3.1	11.4	9.0					
05/29/2020	6.77	0.00	18.8	15.6	5.6	1,127	336	7	18.5	8.6	3.3	0.00	0.00	0.00	0.00						97.489	96.792	7.39	5.6	11.6	9.2	6.97	3.7	11.0	9.0					
05/30/2020	6.90	0.10	8.4	8.4	3.5	497	207	47	18.2	7.6	1.9	0.00	0.00	0.00	0.00						97.840	96.500	7.41	5.6	11.4	10.4	6.99	3.8	10.6	10.0					
05/31/2020	6.76	0.00	9.2	6.6	4.9	501	267	5	16.8	8.1	1.9	0.00	0.00	0.00	0.00						97.700	92.581	7.01	4.9	11.4	9.0	7.00	4.8	12.4	9.2					
MMAVG															MMAVG	0.54																			
Min.	6.5	0.00	1	0	3	74	180	2	11.3	5.1	1			0.00	0.00	0.10	9	0.06	5		81.54	90.56	7.0	2.4	5.0	4.2	6.6	2.0	1.0	3.4	49.0	79	<0.50	9.9	<0.20
Max.	7.0	0.10	19	16	22	1894	3008	1011	18.5	8.6	6			0.00	0.00	0.79	48	0.29	33		99.01	99.29	8.3	8.1	62.0	59.2	8.2	4.8	14.6	11.4	49.0	79	<0.50	9.9	<0.20
Total																																			
Average	6.7	<0.05	8	7	5	603	426	10	14.1	7.8	2			0.00	0.00	0.27	21	0.13	10		96.37	96.04	7.6	4.6	10.5	9.5	7.2	3.0	8.0	7.2	49.0	79	<0.50	9.9	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
05/01/2020	5,820	6,220	4,500	4,790	15,440	13,170	6.92	6.16	2,358,720	2,357,280	33,006	35,275	1,732	13,619	1,716	14,065	62	56	5,000	5,090	3,970	3,990	11,910	12,990	6.98	6.40	2,799,360	2,793,600	45,870	46,696	1,426	14,352	1,516	13,996	88	90
05/02/2020	5,380	6,250	4,320	5,010	15,500	14,250	5.64	4.90	1,756,800	1,752,480	30,511	35,445	858	6,665	769	7,000	65	64	5,200	4,990	4,150	4,030	14,080	13,740	4.22	5.78	2,079,360	2,070,720	47,705	45,778	3,154	29,103	3,130	28,889	79	84
05/03/2020	6,300	5,050	5,100	3,940	16,090	16,260	7.84	7.81	1,500,480	1,499,040	35,729	28,640	1,905	14,462	1,820	14,306	60	93	5,990	6,430	4,830	5,180	10,180	14,660	6.82	6.35	1,801,440	1,812,960	86,694	58,989	1,657	14,113	1,647	14,376	80	75
05/04/2020	5,940	6,420	4,760	5,170	16,110	15,940	4.86	6.46	1,396,800	1,396,800	33,687	36,409	1,903	14,172	1,917	14,278	67	70	4,590	5,450	3,980	4,470	13,620	13,930	-5.33	6.40	1,670,400	1,670,400	42,109	49,998	1,629	14,342	1,664	14,321	96	81
05/05/2020	6,430	6,780	5,190	5,440	15,960	16,170	7.97	7.98	1,447,200	1,442,880	36,466	38,451	1,872	13,988	1,919	14,297	65	71	5,980	5,820	4,930	4,810	13,670	15,120	4.22	4.35	1,733,760	1,736,640	54,861	53,393	1,620	13,988	1,803	14,297	87	96
05/06/2020	6,220	6,810	5,530	6,010	16,190	15,690	8.16	8.15	1,238,400	1,238,400	35,275	38,621	2,001	14,884	1,983	14,561	64	59	5,580	5,230	4,400	4,930	13,900	14,540	5.52	5.40	1,468,800	1,468,800	51,191	47,980	1,684	14,530	1,821	14,617	81	86
05/07/2020	6,460	6,490	5,750	5,750	15,120	15,270	7.45	7.50	1,319,040	1,324,800	36,636	36,806	1,860	14,139	1,888	14,468	59	54	5,890	5,670	5,460	5,110	15,380	14,820	5.16	4.95	1,526,400	1,526,400	54,035	52,017	1,643	14,191	1,812	14,246	82	88
05/08/2020	5,530	6,250	4,920	5,400	15,750	17,000	7.74	7.79	1,188,000	1,188,000	31,362	35,445	1,803	14,073	2,014	14,256	63	67	5,750	5,530	5,130	4,950	14,450	15,820	4.50	4.67	1,555,200	1,555,200	52,751	50,732	1,682	14,140	1,870	14,590	77	90
05/09/2020	5,920	5,790	5,240	5,080	14,700	16,320	7.65	8.10	1,396,800	1,405,440	33,574	32,836	1,773	14,170	2,029	14,590	51	60	6,560	6,340	5,380	5,650	14,140	15,660	4.54	4.65	1,681,920	1,666,080	60,181	58,163	1,683	14,135	1,909	14,514	61	95
05/10/2020	5,860	6,160	4,780	5,840	15,950	16,910	7.94	8.38	1,008,000	1,008,000	33,233	34,935	1,794	14,033	1,968	14,201	68	70	6,260	6,080	5,590	5,380	14,270	15,620	3.72	5.29	2,808,000	2,808,000	57,429	55,778	1,731	14,544	1,875	14,395	85	89
05/11/2020	5,410	4,830	4,890	4,450	13,140	17,200	7.70	7.90	934,560	1,055,520	30,681	27,392	1,592	14,523	2,031	14,155	63	64	5,600	6,120	5,040	5,510	13,390	16,850	5.10	4.60	1,563,840	1,625,760	51,374	56,145	1,714	14,405	1,821	13,979	61	69
05/12/2020	5,870	5,340	5,200	4,760	16,450	16,780	7.10	7.40	1,075,680	1,111,680	33,290	30,284	1,712	13,873	1,971	13,909	55	56	6,240	5,920	5,580	5,230	13,770	16,680	4.10	4.20	1,340,640	1,418,400	57,246	54,310	1,667	14,519	1,974	14,193	67	73
05/13/2020	5,040	5,040	4,610	4,590	13,750	15,860	8.00	8.10	1,159,200	1,285,920	28,583	28,583	1,893	16,506	2,202	16,651	54	60	6,100	6,100	5,460	5,460	13,930	15,560	4.20	4.20	1,414,080	1,401,120	55,961	55,961	1,740	15,149	2,127	15,290	66	62
05/14/2020	6,970	6,850	5,780	5,620	15,970	14,970	7.00	7.00	1,175,040	1,152,000	39,528	38,848	1,987	16,036	2,093	16,278	65	69	6,140	5,840	5,210	4,940	15,180	14,420	3.70	3.80	1,071,360	1,307,520	56,328	53,576	2,070	16,353	1,974	16,417	62	69
05/15/2020	6,350	7,220	1,260	6,710	16,090	15,240	6.80	6.20	1,149,120	1,167,840	36,012	40,946	2,264	16,869	2,141	16,841	71	67	6,030	6,060	5,500	5,460	14,500	16,500	4.20	3.90	1,069,920	1,080,000	55,319	55,594	2,099	16,583	1,993	16,574	71	79
05/16/2020	6,800	6,700	5,470	5,390	15,990	15,430	6.18	5.80	1,274,400	1,226,880	38,564	37,997	2,294	17,149	2,147	16,786	56	60	5,490	5,570	4,480	4,590	13,270	15,750	3.97	3.48	1,180,800	1,180,800	50,365	51,099	1,819	16,440	2,140	16,292	69	68
05/17/2020	7,020	7,590	5,630	6,070	18,140	17,780	6.21	6.17	1,346,400	1,349,280	39,812	43,044	2,390	16,790	2,338	16,884	60	59	5,640	6,850	4,610	5,590	14,950	17,680	3.55	2.63	1,428,480	1,424,160	51,741	62,842	2,107	16,899	2,441	16,556	66	70
05/18/2020	6,400	6,670	5,570	5,260	16,010	15,930	6.47	6.20	1,319,040	1,307,520	36,296	37,827	2,422	16,872	2,350	16,720	64	69	6,040	6,250	4,720	4,950	14,160	17,610	3.48	3.21	1,287,360	1,290,240	55,411	57,338	2,005	16,976	2,424	16,505	83	86
05/19/2020	7,550	6,860	5,260	5,290	16,050	14,980	6.24	6.16	1,085,760	1,088,640	42,818	38,904	1,903	14,250	1,920	14,450	56	61	5,850	5,400	4,760	4,390	15,050	17,120	3.17	2.81	1,082,880	1,084,320	53,668	49,540	1,537	13,016	1,907	12,985	79	85
05/20/2020	7,260	7,250	5,700	5,750	16,000	17,390	6.26	6.08	1,213,920	1,199,520	41,173	41,116	1,946	14,562	1,954	14,475	58	57	5,680	5,950	4,740	4,720	15,870	16,180	3.17	2.68	1,212,480	1,216,800	52,108	54,585	1,941	14,666	1,945	14,410	78	74
05/21/2020	6,720	6,880			16,240	16,680	5.95	5.18	1,336,320	1,337,760	38,110	39,018	1,974	14,680	2,096	14,755	58	60	5,600	5,560			14,210	15,390	2.91	2.46	1,327,680	1,324,800	51,374	51,007	1,497	14,466	1,848	14,399	73	79
05/22/2020	7,130	7,290	6,330	5,800	15,630	16,430	5.86	5.01	872,640	871,200	40,436	41,343	2,210	16,630	2,304	16,688	62	62	10,670	6,530	5,400	5,030	16,340	15,980	2.57	3.04	1,012,320	1,009,440	97,887	59,906	1,697	12,451	1,629	12,226	47	75
05/23/2020	6,700	7,050	5,420	5,500	15,040	15,740	5.92	4.53	928,800	928,800	37,997	39,982	2,203	17,223	2,285	17,035	57	57	6,150	6,200	4,900	4,990	15,360	14,680	2.83	2.57	1,077,120	1,080,000	56,420	56,879	1,594	12,444	1,495	12,211	65	71
05/24/2020	6,960	6,210	5,660	5,110	12,810	17,950	7.05	5.61	907,200	907,200	39,472	35,218	1,935	16,666	2,385	16,975	55	56	6,480	6,640	5,370	5,540	15,270	15,090	2.85	2.54	1,051,200	1,051,200	59,448	60,915	1,507	11,830	1,520	12,074	77	69
05/25/2020	7,760	7,020	6,170	5,620	15,030	16,640	6.72	5.73	777,600	774,720	44,009	39,812					52	53	7,080	6,850	5,810	5,570	14,960	14,640	2.61	2.70	918,720	908,640	64,952	62,842	1,487	11,673	1,468	11,667	64	66
05/26/2020	7,140	7,000	5,730	5,550	13,960	16,760	6.87	5.12	900,000	900,000	40,492	39,698	1,930	16,574	2,342	16,752	63	64	6,270	6,420	5,090	5,240	15,240	13,810	2.69	2.95	1,051,200	1,051,200	57,521	58,897	1,516	11,814	1,469	12,102	72	70
05/27/2020	6,930	7,900	5,520	6,270	14,400	15,950	6.40	4.71	921,600	921,600	39,301	44,802	2,327	16,837	2,324	16,920	55	51	7,050	6,840	5,770	5,610	14,960	16,350	2.50	2.40	1,287,360	1,284,480	64,677	62,750					64	59
05/28/2020	7,200	7,310	5,540	5,620	14,070	15,530	6.25	5.03	820,800	820,800	40,833	41,456	2,213	16,692	2,267	16,762	53	68	6,180	6,450	4,880	5,190	14,590	16,390	2.59	2.69	792,000	792,000	56,695	59,172	1,489	11,957	1,642	11,975	70	74
05/29/2020	7,290	7,170	5,960	5,650	14,900	15,260	5.63	5.12	1,133,280	1,141,920	41,343	40,663	2,435	17,145	2,304	16,927	55	56	6,660	7,090	5,450	5,680	15,380	15,720	2.14	2.34	1,144,800	1,144,800	61,099	65,044	1,537	11,880	1,746	12,091	63	75
05/30/2020	7,110	7,640	5,460	5,860	16,090	16,580	5.00	4.68	1,198,080	1,193,760	40,322	43,328	1,525	11,712	1,586	11,896	56	52	7,050	6,540	5,440	4,960	15,920	16,560	2.43	3.30	1,235,520	1,258,560	64,677	59,998	1,871	14,091	1,988	14,393	57	69
05/31/2020	7,020	7,430	5,630	5,970	15,240	16,030	6.43	5.92	1,094,400	1,094,400	39,812	42,137					47	61	6,000	7,060	4,910	5,750	15,950	13,940	2.62	3.08	1,116,000	1,116,000	55,044	64,768	1,930	14,537	1,966	14,232	53	54
MMAVG																																				
Min.	5,040	4,830	1,260	3,940	12,810	13,170	5	5	777,600	774,720	28,583	27,392	858	6,665	769	7,000	47	51	4,590	4,990	3,970	3,990	10,180	12,990	-5	2	792,000	792,000	42,109	45,778	1,426	11,673	1,468	11,667	47	54
Max.	7,760	7,900	6,330	6,710	18,140	17,950	8	8	2,358,720	2,357,280	44,009	44,802	2,435	17,223	2,385	17,035	71	93	10,670	7,090	5,810	5,750	16,340	17,680	7	6	2,808,000	2,808,000	97,887	65,044	3,154	29,103	3,130	28,889	96	96
Total									37,234,080	37,450,080	1,148,363	1,165,261	56,656	435,794	59,063	437,881											43,790,400	44,159,040	1,750,399	1,732,692	52,733	439,587	56,564	438,812		
Average	6,532	6,628	5,229	5,442	15,413	16,067	7	6	1,201,099	1,208,067	37,044	37,589	1,954	15,027	2,037	15,099	59	62	6,155	6,093	5,031	5,097	14,447	15,477	3	4	1,412,594	1,424,485	56,464	55,893	1,758	14,653	1,885	14,627	72	76

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
06/01/2020	6.41	10.63	3.70	0.00		0.000	112,180		60.0	11.1	7.70	200	304	10,692	16,252		7.51	12.0	223	197	224	11,921	11,975		
06/02/2020	6.73	10.67	3.63	0.03		0.000	78,830		65.0	11.5	7.40	147	198	8,251	11,113		7.49	5.0	208	165	197	11,675	11,057		
06/03/2020	6.43	12.57	3.43	0.00		0.000	83,898		67.0	11.0	7.10	281	312	15,069	16,731		7.44	65.0	533	463	414	28,583	22,201		
06/04/2020	8.22	9.25	3.31	0.04		0.000	93,630		6.8	11.1	7.30	186	228	12,751	15,630		7.49	46.0	804	697	252	55,118	17,276		
06/05/2020	6.58	8.93	3.31	0.00		0.000	55,325		70.0	11.3	7.40	213	276	11,689	15,146		7.46	28.0	497	436	210	27,274	11,524		
06/06/2020	6.22	16.53	3.33	0.26		0.000	13,227		75.0	18.3	7.87	228	310	11,827	16,081		7.32	15.0	333	295	347	17,274	18,001		
06/07/2020	6.22	8.98	3.28	0.00		0.000			59.0	11.0	7.82	300	132	15,562	6,847		7.47	5.0	176	164	252	9,130	13,072		
06/08/2020	5.83	9.78	3.28	0.00		0.000	58,682		58.0	11.1	7.77	329	364	15,997	17,698		7.62	3.0	144	131	210	7,002	10,211		
06/09/2020	5.95	9.20	2.89	0.00		0.000	89,570		61.0	11.4	7.74	303	294	15,036	14,589		7.51	3.0	166	150	330	8,237	16,376		
06/10/2020	5.77	10.01	3.03	0.00		0.000	66,948		63.0	11.7	7.75	384	182	18,479	8,758		7.43	7.5	245	220	360	11,790	17,324		
06/11/2020	5.77	22.88	3.39	0.44		0.045	45,341		61.0	11.6	7.52	372	396	17,901	19,056		7.31	10.0	298	247	375	14,340	18,046		
06/12/2020	7.29	9.57	2.62	0.00		0.000	93,265		66.0	11.7	7.81	336	410	20,428	24,927		7.51	5.0	202	174	258	12,281	15,686		
06/13/2020	5.89	8.81	2.75	0.00		0.000	60,662		57.0	11.5	7.20	176	162	8,646	7,958		7.35	23.0	213	182	264	10,463	12,968		
06/14/2020	8.49	8.78	2.86	0.00		0.000	48,331		69.0	11.4	7.81	300	196	21,242	13,878		7.51	7.5	266	215	353	18,835	24,995		
06/15/2020	5.55	9.57	3.07	0.00		0.000	61,339		59.0	11.4	7.72	450	450	20,829	20,829		7.61	7.3	270	234	375	12,497	17,358		
06/16/2020	5.79	9.59	2.54	0.00		0.000	60,003		60.0	11.5	7.69	510	600	24,627	28,973		7.68	8.0	289	240	411	13,955	19,847		
06/17/2020	5.69	8.88	2.51	0.00		0.000	97,631		58.0	11.8	7.64	437	306	20,738	14,521		7.65	7.5	272	232	396	12,908	18,792		
06/18/2020	5.53	9.89	2.46	0.00		0.000	72,372		59.0	12.1	7.70	429	468	19,786	21,584		7.39	11.0	381	324	464	17,572	21,400		
06/19/2020	5.54	9.26	2.46			0.000	63,274		68.0	12.2	7.76	405	582	18,712	26,890		6.91	10.0	430	364	420	19,868	19,406		
06/20/2020	5.33	8.26	2.44	0.00		0.000	8,627		80.0	12.1	7.63	324	232	14,403	10,313		6.87	10.0	433	366	321	19,248	14,269		
06/21/2020	5.09	8.43	2.71	0.00		0.000			82.0	12.2	7.87	300	114	12,735	4,839		7.24	10.0	372	328	480	15,792	20,376		
06/22/2020	5.15	10.35	2.65	0.00		0.000	86,839		60.0	11.4	7.73	387	496	16,622	21,304		7.40	7.0	303	266	354	13,014	15,205		
06/23/2020	5.42	9.57	2.60	0.00		0.000	67,143		64.0	12.3	7.63	450	608	20,341	27,483		7.41	6.0	282	239	371	12,747	16,770		
06/24/2020	5.51	9.77	2.54	0.04		0.000	78,170		61.0	12.3	7.80	414	554	19,025	25,458		7.37	5.8	273	222	363	12,545	16,681		
06/25/2020	5.35	13.37	2.19	0.00		0.000	67,551		58.0	12.3	7.77	428	488	19,097	21,774		7.39	7.0	270	229	368	12,047	16,420		
06/26/2020	5.51	8.63	2.49	0.04		0.000	57,388		58.0	12.4	7.55	390	312	17,922	14,337		7.56	7.5	200	48	428	9,191	19,668		
06/27/2020	5.03	8.40	2.38	0.00		0.000	14,271		59.0	12.3	7.76	372	330	15,605	13,844		7.10	9.0	278	229	453	11,662	19,003		
06/28/2020	4.85	34.44	2.36	0.45		0.683	6,325		66.0	12.3	7.82	348	366	14,076	14,804		7.51	7.0	294	240	360	11,892	14,562		
06/29/2020	7.83	8.09	0.00	0.42		0.000	39,221		61.0	11.3	7.65	368	416	24,031	27,166		7.49	2.0	152	131	306	9,926	19,982		
06/30/2020	5.92	20.67	3.34	0.20		0.000	68,147		59.0	11.5	7.70	420	750	20,737	37,030		7.51	7.5	330	270	300	16,293	14,812		
MMAVG	8.19																								
Min.	4.9	8.1	0.0	0.0		0.000	6,325		6.8	11.0	7.10	147	114	8,251	4,839		6.87	2.0	144	48	197	7002	10211		
Max.	8.5	34.4	3.7	0.5		0.683	112,180		82.0	18.3	7.87	510	750	24,627	37,030		7.68	65.0	804	697	480	55118	24995		
Total	180.9	343.8	83.6	1.9		0.728	1,748,190																		
Average	6.0	11.5	2.8	0.1		0.024	62,435		61.66	11.90	7.65	340	361	16762	17861		7.42	11.9	305	257	341	15503	16842		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																			PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
06/01/2020	6.74	0.00	9.8	9.2	3.6	524	192	7	14.3	9.9	1.8	0.00	0.00	0.00	0.00	0.41	22	0.14	7		98.200	96.776	7.50	5.3	7.8	8.4	7.48	4.0	11.8	9.6					
06/02/2020	6.70	0.00	10.2	9.6	5.1	573	286	11	13.8	9.9	3.1	0.00	0.00	0.00	0.00	0.45	25	0.13	7		96.531	94.848	7.53	7.0	18.6	15.8	7.55	2.4	11.4	11.6					
06/03/2020	6.68	0.00	16.4	14.8	7.6	879	408	20	11.5	8.9	3.0	0.00	0.00	0.00	0.00	0.60	32				97.295	94.744	7.51	6.0	17.6	15.4	7.56	10.1	35.8	30.6					
06/04/2020	6.70	0.01	12.6	11.0	5.8	864	398	7	11.6	8.8	2.7	0.00	0.00	0.00	0.00						96.882	94.474	7.57	7.8	20.2	16.4	7.51	6.4	16.2	14.6					
06/05/2020	6.80	0.00	11.0	11.2	7.8	604	428	13	18.9	8.5	2.6	0.00	0.00	0.00	0.00						96.338	96.014	7.43	7.5	13.6	14.2	7.53	11.1	31.0	28.4					
06/06/2020	6.85	0.00	8.2	8.2	5.6	425	290	15	18.3	8.6	5.8	0.00	0.00	0.00	0.00						97.544	97.355	8.25	6.7	13.6	11.6	8.26	9.3	27.8	23.4					
06/07/2020	6.97	0.10	9.4	9.0	6.0	488	311	7	16.5	8.9	3.7	0.00	0.00	0.00	0.00						98.000	92.879	8.37	5.9	11.6	11.4	8.16	6.9	16.6	15.8					
06/08/2020	6.89	<0.10	8.8	7.8	5.3	428	258	7	14.5	9.8	2.6	0.00	0.00	0.00	0.00	0.16	8	0.18	9		98.389	97.582	8.22	6.4	13.0	11.6	8.03	6.9	13.6	11.8					
06/09/2020	6.86	<0.10	8.2	8.2	6.2	407	308	4	16.5	9.2	3.3	0.00	0.00	0.00	0.00						97.954	97.211	8.25	7.2	13.8	11.8	8.12	7.0	18.8	16.6					
06/10/2020	6.89	<0.10	7.0	8.0	5.8	337	279	6	16.8	9.2	4.2	0.00	0.00	0.00	0.00	0.36	17	0.95	46		98.490	96.154	8.26	6.2	8.2	8.8	8.08	7.2	17.4	16.2					
06/11/2020	6.93	<0.10	8.0	5.8	9.8	385	472	5	17.5	9.0	3.6	0.00	0.00	0.00	0.00	0.17	8	0.25	12		97.366	97.980	8.23	8.4	10.8	8.2	8.03	10.5	21.2	17.2					
06/12/2020	6.92	0.10	5.8	5.8	4.7	353	286	9	18.9	8.7	2.9	0.00	0.00	0.00	0.00						98.601	98.585	8.23	5.1	7.8	7.0	8.11	7.1	15.2	13.6					
06/13/2020	6.94	<0.10	10.4	8.0	3.6	511	177	4	16.2	9.3	4.3	0.00	0.00	0.00	0.00						97.955	93.580	8.15	3.3	11.6	10.0	8.20	8.1	18.2	15.4					
06/14/2020	6.88	0.00	10.2	6.4	7.0	722	496	2	15.2	9.6	3.0	0.00	0.00	0.00	0.00	0.38	27	0.46	33		97.667	94.796	7.75	4.8	10.6	7.8	7.31	6.8	17.4	12.4					
06/15/2020	6.91	<0.10	8.4	6.6	6.3	389	292	4	16.9	9.3	8.2	0.00	0.00	0.00	0.00	0.36	17	0.41	19		98.600	98.133	7.84	153.0	11.4	8.6	7.36	6.8	16.6	13.2	44.00	67.00	<0.50	17.00	<0.20
06/16/2020	6.87	<0.10	11.0	7.8	6.4	531	309	4	16.3	9.4	4.6	0.00	0.00	0.00	0.00	0.36	17	0.28	14		98.745	98.167	7.84	5.1	14.8	9.4	7.46	7.7	18.6	13.6					
06/17/2020	6.96	<0.10	8.8	6.0	7.8	418	370	3	15.1	9.7	3.9	0.00	0.00	0.00	0.00						98.215	97.124	7.81	5.6	14.0	9.4	7.39	7.9	16.0	12.0					
06/18/2020	6.95	<0.10	7.8	4.2	6.5	360	300	3	18.8	8.8	3.9	0.00	0.00	0.00	0.00						98.485	98.333	7.87	6.0	11.4	8.0	7.34	11.7	20.0	14.0					
06/19/2020	6.87	<0.10	13.0	9.4	7.4	601	342	0	19.5	8.7	3.9	0.00	0.00	0.00	0.00						98.173	97.766	7.73	6.2	16.2	10.0	7.10	8.3	21.2	14.4					
06/20/2020	7.09	0.10	18.8	13.6	6.8	836	302	1	20.6	8.0	1.7	0.00	0.00	0.00	0.00						97.901	91.897	7.63	12.8	39.8	29.8	7.14	7.2	23.0	17.8					
06/21/2020	7.02	0.10	6.8	6.0	8.4	289	357	0	21.2	7.8	3.9	0.00	0.00	0.00	0.00	0.67	28	0.28	12		97.200	94.035	7.70	7.5	14.0	11.4	7.23	8.7	16.4	13.4					
06/22/2020	6.96	<0.10	12.0	11.2	6.0	515	258	4	20.2	8.2	6.1	0.00	0.00	0.00	0.00	0.96	41	0.26	11		98.450	97.581	7.70	5.3	15.6	11.4	7.11	7.8	20.6	18.0					
06/23/2020	6.81	<0.10	12.2	9.0	8.3	551	375	4	20.3	8.1	7.5	0.00	0.00	0.00	0.00	0.98	44	0.22	10		98.156	97.993	7.79	7.3	24.4	17.8	7.18	9.9	24.8	19.4					
06/24/2020	7.03	<0.10	14.0	9.2	8.0	643	368	1	20.5	8.2	8.9	0.00	0.00	0.00	0.00						98.068	97.473	7.75	7.0	19.0	13.4	7.21	11.7	29.0	20.6					
06/25/2020	7.03	0.10	14.2	8.8	5.3	634	236	13	19.7	8.4	7.4	0.00	0.00	0.00	0.00						98.762	97.090	7.83	7.4	15.6	11.4	7.21	14.0	30.2	21.2					
06/26/2020	6.91	0.40	12.4	10.0	5.9	570	271	54	20.8	8.0	13.5	0.00	0.00	0.00	0.00						98.487	96.026	7.67	6.5	13.8	9.4	7.05	6.4	30.2	20.2					
06/27/2020	7.00	0.01	7.8	9.4	6.6	327	277	2	20.2	6.8	5.7	0.00	0.00	0.00	0.00						98.226	97.636	7.74	7.0	14.0	11.4	7.20	13.2	24.6	20.2					
06/28/2020	6.96	0.01	53.2	41.4	34.0	2,152	1,375	2	20.2	6.9	4.5	0.00	0.00	0.00	0.00						90.230	85.464	7.72	7.2	17.0	12.0	7.14	15.0	38.6	30.0					
06/29/2020	7.01	<0.10	8.4	5.8	6.0	549	392	3	20.5	6.8	7.1	0.00	0.00	0.00	0.00	0.64	42				98.370	97.981	7.66	4.4	9.6	8.6	7.21	7.1	17.2	13.2					
06/30/2020	7.06	<0.10	8.8	5.6	4.3	434	212	2	21.6	6.4	4.1	0.00	0.00	0.00	0.00	0.87	43	0.28	14		98.976	98.827	7.78	4.0	10.2	6.8	7.27	7.5	21.8	16.4					
MMAVG													MMAVG			0.55																		
Min.	6.7	0.00	6	4	4	289	177	0	11.5	6.4	2			0.00	0.00	0.16	8	0.13	7		90.23	85.46	7.4	3.3	7.8	6.8	7.1	2.4	11.4	9.6	44.0	67	<0.50	17.0	<0.20
Max.	7.1	0.40	53	41	34	2152	1375	54	21.6	9.9	14			0.00	0.00	0.98	44	0.95	46		98.98	98.83	8.4	153.0	39.8	29.8	8.3	15.0	38.6	30.6	44.0	67	<0.50	17.0	<0.20
Total																																			
Average	6.9	<0.08	12	10	7	577	354	4	17.8	8.6	5			0.00	0.00	0.53	27	0.32	16		97.74	96.15	7.8	11.3	14.7	11.6	7.5	8.5	21.4	17.2	44.0	67	<0.50	17.0	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
06/01/2020	7,110	6,390	5,790	5,120	13,320	16,360	6.60	6.00	1,018,080	1,100,160	40,322	36,239	1,112	9,341	1,276	9,446	42	47	6,120	7,440	5,090	6,170	16,110	15,230	2.30	3.30	1,052,640	1,038,240	56,145	68,255	2,282	16,988	2,171	17,089	54	54
06/02/2020	6,340	6,580	5,030	5,230	13,470	17,250	7.10	6.60	980,640	983,520	35,955	37,316	1,079	9,609	1,403	9,753	44	49	6,540	7,930	5,320	6,420	16,010	15,050	2.80	3.30	984,960	1,078,560	59,998	72,750	2,150	16,051	1,992	15,775	54	54
06/03/2020	6,500	5,100	5,210	4,110	13,220	15,770	6.40	5.90	1,041,120	1,317,600	36,863	28,923	1,099	9,779	1,425	9,903	43	49	6,630	7,490	5,440	6,050	16,520	15,120		3.50	1,333,440	1,366,560	86,694	68,713	2,200	15,971	1,932	15,318	51	53
06/04/2020	6,570	6,190	5,740	5,520	12,250	14,420	6.10	5.20	1,131,840	1,088,640	37,260	35,105	1,058	9,600	1,263	9,600	52	57	1,570		1,060		5,910		1.90	3.10		1,265,760	14,403				4,893	33,506	178	
06/05/2020	6,300	6,850	5,140	5,550	15,220	16,920	5.70	5.50	996,480	930,240	35,729	38,848	1,166	9,204	1,356	9,312	51	51	6,620	8,070	5,440	6,450		17,330	1.80	3.30		1,889,280	60,732	74,034			3,437	23,777	51	50
06/06/2020	8,040	7,660	6,540	6,110	18,080	16,590	4.73	3.98	705,600	705,600	45,596	43,441	1,324	9,535	1,336	9,559	54	52	6,700	8,020	5,510	6,550		17,020	2.84	3.20		1,497,600	61,466	73,575			4,745	33,425	52	60
06/07/2020	7,690	7,240	6,200	5,830	18,800	15,890	5.24	4.74	735,840	748,800	43,612	41,059	1,482	9,636	1,308	9,655	57	57	6,090	7,470	5,240	6,340		17,700	2.61	2.91		1,576,800	55,870	68,530			4,957	33,579	62	70
06/08/2020	6,850	6,820	5,150	5,040	17,960	20,250	5.86	5.22	1,103,040	1,069,920	38,848	38,678	1,458	9,513	1,492	9,903	45	48	6,920	8,020	5,200	6,210		16,970	1.93	2.34		2,260,800	63,484	73,575			4,763	33,656	51	57
06/09/2020	7,600	7,200	5,710	5,500	15,950	16,700	5.28	4.42	849,600	848,160	43,101	40,833	2,405	17,005	2,617	16,987	57	57	6,670	7,520	5,290	5,870		19,520	2.18	2.41		1,706,400	61,191	68,988			3,875	23,801	59	63
06/10/2020	9,170	7,870	7,250	6,430	18,380	17,950	5.07	4.54	1,205,280	1,169,280	52,005	44,632	2,435	17,012	2,442	16,898	49	51	6,770	7,980	5,290	6,250		18,190	2.02	2.56		2,161,440	62,108	73,209			3,575	23,565	50	54
06/11/2020	9,230	7,490	5,490	5,930	18,750	16,350	5.27	4.22	911,520	910,080	52,345	42,477	2,678	17,100	2,278	16,941	34	41	6,430	7,000	5,190	5,330		17,870	2.16	2.76		1,681,920	58,989	64,218			3,578	24,010	67	47
06/12/2020	8,610	8,900	6,770	6,740	18,050	17,400	5.19	4.61	995,040	1,006,560	48,829	50,474	2,593	16,899	2,394	17,012	52	51	6,240	7,110	4,920	5,580		17,520	2.00	2.49		1,723,680	57,246	65,227			3,455	23,412	50	56
06/13/2020	9,240	7,960	7,290	6,180	18,620	18,030	6.20	5.99	800,640	809,280	52,402	45,143	2,604	17,030	2,479	16,777	53	54	6,630	7,840	5,200	6,210		19,260	2.38	2.23		1,395,360	60,824	71,924			3,712	23,111	53	55
06/14/2020	8,890	8,380	7,010	6,530	16,920	16,860	7.14	6.85	1,199,520	1,198,080	50,417	47,525	2,469	16,658	2,418	16,620	41	47	7,750	7,680	6,070	6,070		18,830	2.86	2.82		2,092,320	71,099	70,456			3,769	24,000	45	52
06/15/2020	7,780	7,140	6,150	5,080	13,080	13,220	2.73	2.47	1,022,400	1,118,880	44,122	40,492	2,092	16,722	2,105	16,779	39	39	7,640	7,960		7,180		18,890	2.66	2.76		2,063,520	70,089	73,025			3,918	24,867	45	48
06/16/2020	7,290	6,180	5,720	4,890	12,980	17,050	7.36	6.67	930,240	907,200	41,343	35,048	1,766	16,253	2,050	16,237	36	41	7,430	7,360	5,870	5,990		8,280	2.47	2.45		1,667,520	68,163	67,521			1,793	25,971	43	49
06/17/2020	7,350	6,640	5,480	5,640	12,420	17,280	6.98	6.18	1,072,800	1,038,240	41,683	37,657	1,938	16,601	2,445	16,626	44	45	8,000	7,730	6,320	5,950		18,710	2.86	2.60		1,848,960	73,392	70,915			3,670	23,519	44	49
06/18/2020	6,850	6,550	5,310	5,050	18,290	14,970	7.25	6.80	948,960	940,320	38,848	37,146	1,555	12,142	1,668	12,403	47	46	7,560	7,940	5,940	6,080		18,830	2.78	2.62		1,828,800	69,355	72,842			5,202	33,128	50	44
06/19/2020	8,500	6,910	7,180	5,950	13,580	12,730	6.61	5.12	1,906,560	1,944,000	48,205	39,188	1,252	9,421	1,097	9,500	31	35	8,670	9,380	8,030	7,910		19,550	1.47	1.77		2,715,840	79,539	86,052			5,236	32,115	36	37
06/20/2020	6,150	5,530	4,880	4,350	10,410	8,950	7.13	6.14	898,560	910,080	34,878	31,362					42	40	7,320	8,230	5,730	6,390		18,210	2.47	2.74		1,270,080	67,154	75,502					42	49
06/21/2020	9,290	8,020	7,390	6,370	14,240	16,660	5.46	4.79	1,019,520	1,013,760	52,685	45,483					48	45	7,160	8,340	5,600	6,530		19,030	2.53	2.46		1,419,840	65,686	76,511					42	49
06/22/2020	10,800	8,700	8,540	6,970	15,050	18,780	5.35	4.59	1,139,040	1,146,240	61,249	49,339	965	7,690	1,502	9,592	41	44	7,110	9,880	5,730	7,870		20,160	2.51	2.49		1,584,000	65,227	90,639			5,649	33,600	42	43
06/23/2020	9,380	7,410	7,330	5,750	13,180	16,750	5.79	4.72	1,157,760	1,421,280	53,196	42,024	1,204	9,751	1,542	9,652	46	46	8,320	9,530	6,620	7,430		19,100	2.22	2.46		1,627,200	76,328	87,428			5,448	34,380	35	43
06/24/2020	9,260	7,060	7,330	5,590	12,020	19,790	5.76	5.01	972,000	973,440	52,515	40,039			5,463	33,557	44	44	8,320	9,870	6,700	7,840		18,500	2.62	2.46		1,353,600	76,328	90,547			5,241	33,604	34	43
06/25/2020	9,680	7,130	7,590	5,590	11,310	21,530	6.05	4.96	1,527,840	1,733,760	54,897	40,436			6,046	33,673	41	42	7,670	10,070	6,100	7,870		16,920	2.52	2.20		2,154,240	70,365	92,382			4,736	33,564	35	39
06/26/2020	11,810	7,180	9,140	5,620	13,900	17,940	5.22	3.29	1,771,200	1,759,680	66,977	40,719			5,048	33,759	37	50	7,400	11,770	5,780	9,160		17,860	2.70	2.08		2,472,480	67,888	107,978			5,122	33,461	39	34
06/27/2020	8,990	7,360	7,010	5,660	12,880	16,380	5.90	4.86	768,960	771,840	50,984	41,740			4,843	33,547	47	46	6,790	8,150	5,270	6,250		18,410	2.39	2.49		1,081,440	62,291	74,768			5,134	33,345	41	47
06/28/2020	8,530	6,050	6,700	4,790	12,040	16,350	6.26	4.92	849,600	864,000	48,375	34,311			4,590	33,627	47	46	6,670	8,280	5,210	6,450		17,350	2.82	2.84		1,152,000	61,191	75,961			4,977	33,378	44	47
06/29/2020	10,120	8,040	7,510	6,130	12,710	18,100	5.51	4.70	1,080,000	1,074,240	57,393	45,596			4,443	32,585	46	50	5,620	6,890	4,100	5,310		18,530	3.41	3.11		1,507,680	51,558	63,209			4,853	33,542	43	28
06/30/2020	10,720	8,550	8,380	6,680	16,350	16,910	4.17	3.98	1,271,520	1,284,480	60,795	48,489			4,915	32,561	51	52	6,940	8,190	5,500	6,350		16,110	2.96	2.62		1,775,520	63,668	75,135			5,032	32,561	43	43
MMAVG																																				
Min.	6,150	5,100	4,880	4,110	10,410	8,950	3	2	705,600	705,600	34,878	28,923	965	7,690	1,097	9,312	31	35	1,570	6,890	1,060	5,310	5,910	8,280	1	2	984,960	1,038,240	14,403	63,209	2,150	15,971	1,793	15,318	34	28
Max.	11,810	8,900	9,140	6,970	18,800	21,530	7	7	1,906,560	1,944,000	66,977	50,474	2,678	17,100	6,046	33,759	57	57	8,670	11,770	8,030	9,160	16,520	20,160	3	4	1,333,440	2,715,840	79,539	107,978	2,282	16,988	5,649	34,380	178	70
Total									32,011,200	32,787,360	1,421,429	1,219,762	35,734	266,501	73,244	502,464											3,371,040	50,257,440	1,892,601	2,193,869	6,632	49,010	116,865	789,059		
Average	8,355	7,169	6,532	5,664	14,781	16,671	6	5	1,067,040	1,092,912	47,381	40,659	1,702	12,691	2,616	17,945	45	47	6,877	8,246	5,474	6,554	13,638	17,588	2	3	1,123,680	1,675,248	63,087	75,651	2,211	16,337	4,174	28,181	51	49

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
07/01/2020	5.20	13.23	2.91	0.06		0.000	62,059		63.0	11.5	7.53	660	800	28,623	34,694		7.33	5.5	199	166	353	8,630	15,309		
07/02/2020	6.31	8.87	2.76	0.52		0.000	65,689		62.0	11.5	7.72	375	460	19,735	24,208		7.01	7.5	220		303	11,578	15,945		
07/03/2020	5.57	9.28	2.71	0.00		0.000	30,152		73.0	11.7	7.66	170	392	7,897	18,210		7.01	7.0	269		395	12,496	18,349		
07/04/2020	5.48	7.55	2.45	0.00		0.000			65.0	11.5	7.67	212	194	9,689	8,866		7.34	4.0	178		330	8,135	15,082		
07/05/2020	4.94	7.97	2.50	0.03		0.000	3,916		69.0	11.6	7.68	206	268	8,487	11,041		7.48	5.0	134	143	192	5,521	7,910		
07/06/2020	5.19	8.99	2.77	0.00		0.000	64,761		76.0	12.0	6.68	287	288	12,423	12,466		7.35	3.0	199	171	237	8,614	10,258		
07/07/2020	5.22	9.08	2.67	0.00		0.000	43,714		75.0	11.8	7.61	342	550	14,889	23,944		7.19	18.0	503	407	480	21,898	20,897		
07/08/2020	5.18	8.51	2.50	0.02		0.000	72,306		68.0	11.6	7.65	1170	274	50,545	11,837		7.20	20.0	523	357	632	22,594	27,303		
07/09/2020	5.36	8.75	2.34	0.00		0.000	77,980		75.0	11.7	7.53	339	512	15,154	22,888		6.98	10.0	346	300	318	15,467	14,215		
07/10/2020	3.58	19.48	2.94	0.30		0.000	52,402		77.0	11.9	7.46	510	596	15,227	17,795		6.99	19.0	754	610	465	22,512	13,884		
07/11/2020	3.69	9.56	2.24	0.00		0.000			88.0	12.0	7.58	318	224	9,786	6,894		7.08	25.0	642		354	19,757	10,894		
07/12/2020	4.95	9.56	2.23	0.00		0.000	531		74.0	11.8	7.50	221	202	9,124	8,339		7.45	11.5	366	306	324	15,110	13,376		
07/13/2020	4.95	9.46	2.18	0.11		0.000	65,300		64.0	11.7	7.71	402	480	16,596	19,816		7.54	10.0	384	312	353	15,853	14,573		
07/14/2020	5.12	21.14	3.03	0.29		0.000	85,861		64.0	11.7	7.41	446	582	19,045	24,852		6.99	22.0	719	584	495	30,702	21,137		
07/15/2020	6.18	9.25	2.30	0.05		0.000	74,401		62.0	11.6	7.42	402	496	20,720	25,564		7.16		336	282	338	17,318	17,421		
07/16/2020	5.26	21.40	2.30	0.25		0.000	76,727		61.0	11.7	7.54	330	466	14,477	20,443		7.32	6.0	266	218	492	11,669	21,583		
07/17/2020	6.09	23.77	2.30	0.00		0.000			58.0	11.8	7.43	203	346	10,310	17,574										
07/18/2020	5.34	8.30	2.44	0.00		0.000	14,638		80.0	11.7	7.35	171	292	7,616	13,004		7.41	15.0	378	323	234	16,834	10,421		
07/19/2020	4.95	8.66	2.24	0.00		0.000			70.0	11.8	7.51	264	240	10,899	9,908		7.47	3.0	205	169	300	8,463	12,385		
07/20/2020	5.03	6.13	4.47	0.00		0.000	79,155		66.0	11.9	7.57	342	378	14,347	15,857		7.39	1.5	161	138	339	6,754	14,221		
07/21/2020	5.03	6.13	4.47	0.00		0.000	86,534		68.0	11.9	7.37	450	626	18,878	26,261		6.91	22.0	716	588	555	30,036	23,282		
07/22/2020	4.96	27.61	2.33	1.10		0.196	70,347		62.0	11.8	7.21	450	778	18,615	32,183		6.98	4.5	205	182	384	8,480	15,885		
07/23/2020	6.75	25.30	3.65	0.90		0.074	93,500		63.0	11.9	7.19	381	506	21,448	28,485		6.92	2.8	160	137	255	9,007	14,355		
07/24/2020	6.80	8.97	2.76	0.00		0.000	79,616		63.0	11.9	7.55	396	396	22,458	22,458		7.00	4.0	210	183	333	11,910	18,885		
07/25/2020	5.27	7.86	2.55	0.00		0.000	4,235		87.0	12.1	7.57	245	280	10,768	12,307		6.84	7.0	363	305	348	15,955	15,295		
07/26/2020	5.02	7.72	2.44	0.00		0.000	7,670		88.0	11.9	7.70	324	198	13,565	8,290		7.42	2.0	123	110	0	5,150	0		
07/27/2020	4.98	8.30	2.45	0.00		0.000	44,013		77.0	11.9	7.31	510	288	21,182	11,962		7.14	3.0	125	118	330	5,192	13,706		
07/28/2020	5.17	8.47	2.26	0.00		0.000	100,857		86.0	12.0	7.20	525	524	22,637	22,594		6.89	15.0	452	404	480	19,489	20,697		
07/29/2020	5.09	7.43	2.39	0.00		0.000	40,423		72.0	11.8	7.16	615	388	26,107	16,471		6.81	7.5	276	235	525	11,716	22,287		
07/30/2020	5.07	12.23	2.94	0.00		0.000	69,787		81.0	11.9	7.13	360	442	15,222	18,689		6.96	4.0	226	198	0	9,556	0		
07/31/2020	5.60	8.35	2.34	0.00		0.000	66,884		78.0	11.9	7.04	420	424	19,616	19,802		7.08	3.0	182		450	8,500	21,017		
MMAVG	8.10																								
Min.	3.6	6.1	2.2	0.0		0.000	531		58.0	11.5	6.68	170	194	7,616	6,894		6.81	1.5	123	110	0	5150	0		
Max.	6.8	27.6	4.5	1.1		0.196	100,857		88.0	12.1	7.72	1170	800	50,545	34,694		7.54	25.0	754	610	632	30702	27303		
Total	163.3	357.3	82.9	3.6		0.270	1,533,458																		
Average	5.3	11.5	2.7	0.1		0.009	56,795		71.45	11.79	7.44	389	416	16970	18313		7.15	9.2	327	278	353	13830	15352		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
07/01/2020	6.82	<0.10	11.8	10.4	6.4	512	278	2	19.1	6.5	4.9	0.00	0.00	0.00	0.00						99.030	98.525	7.77	3.3	10.2	6.2	7.34	6.3	17.6	11.6					
07/02/2020	7.05	<0.10	10.2		4.8	537	253	3	20.4	6.4	9.4	0.00	0.00	0.00	0.00						98.720	97.783	7.63	4.8	8.2		7.02	6.3	10.0						
07/03/2020	6.97	0.01	12.6		3.8	585	177	16	20.2	6.2	2.7	0.00	0.00	0.00	0.00						97.765	96.786	7.23	7.2	29.8		7.62	2.8	16.2						
07/04/2020	7.10	0.00	10.0		3.0	457	137	10	19.6	7.1	2.0	0.00	0.00	0.00	0.00						98.585	94.845	7.71	2.8	15.6		7.22	3.7	28.6						
07/05/2020	7.07	0.00	10.6	9.8	2.8	437	115	11	19.0	7.3	4.1	0.00	0.00	0.00	0.00	0.52	21	0.14	6		98.641	96.045	7.64	4.3	11.6	10.0	7.03	4.7	24.2	14.8					
07/06/2020	6.94	0.00	8.0	7.2	5.0	346	216	11	21.2	6.7	2.5	0.00	0.00	0.00	0.00	0.09	4	0.15	6		98.258	97.222	7.55	5.7	13.2	10.4	7.45	7.4	21.8	18.6					
07/07/2020	6.94	0.00	11.6	9.0	4.4	505	192	0	22.0	6.9	2.2	0.00	0.00	0.00	0.00			0.13	6		98.713	97.891	7.73	8.7	22.0	18.4	7.11	10.1	18.4	12.0					
07/08/2020	7.09	0.00	8.0	6.8	4.6	346	199	2	20.0	7.0	2.5	0.00	0.00	0.00	0.00	1.89	82				99.607	97.080	7.67	11.7	11.6	9.6	7.21	6.2	21.8	17.2	58.00	58.00	0.57	24.00	<0.20
07/09/2020	7.11	0.00	7.4	8.4	4.7	331	210	15	20.1	6.8	2.5	0.00	0.00	0.00	0.00						98.614	98.555	7.81	2.4	11.4	12.0	7.31	5.4	15.6	14.8					
07/10/2020	7.17	0.01	10.2	9.4	5.7	305	170	12	23.2	7.1	2.7	0.00	0.00	0.00	0.00						98.882	98.289	7.64	6.9	13.2	9.8	6.96	3.5	8.6	7.0					
07/11/2020	7.10	0.10	8.4		5.8	259	178	5	22.4	6.8	1.6	0.00	0.00	0.00	0.00						98.176	96.250	7.61	5.1	12.4		7.06	5.0	18.6						
07/12/2020	7.11	0.00	7.4	3.2	5.1	305	211	10	20.9	6.6	2.8	0.00	0.00	0.00	0.00	0.30	12	0.69	28		97.692	96.337	7.63	5.6	12.0	9.8	6.88	5.7	38.6	32.6					
07/13/2020	7.08	<0.10	9.4	5.2		388		0	21.2	6.2	5.1	0.00	0.00	0.00	0.00	0.62	26	0.31	13			98.042	7.70	6.7	14.8	11.6	6.94	6.8	20.6	16.6					
07/14/2020	7.04	<0.10	12.0	9.4	6.6	512	282	4	20.5	6.5	6.6	0.00	0.00	0.00	0.00	1.05	45	0.53	23		98.520	97.938	7.58	11.1	27.8	22.4	6.94	8.6	25.6	21.4					
07/15/2020	7.04	<0.10	7.8	6.0	6.4	402	330	5	21.8	6.5	8.7	0.00	0.00	0.00	0.00						98.408	98.427	7.51	6.4	15.6	13.0	6.72	5.5	16.2	13.4					
07/16/2020	7.01	0.10	10.4	8.8	7.5	456	329	11	20.4	6.8	8.8	0.00	0.00	0.00	0.00						97.727	97.768	7.68	6.0	14.8	12.2	6.76	5.1	19.0	14.8					
07/17/2020	6.80	0.40	11.6	9.4	5.5	589	279	3	22.2	6.2	7.8	0.00	0.00	0.00	0.00						97.291	96.647		5.6	16.8	13.6		7.6	24.4	19.8					
07/18/2020	6.84	0.00	12.0	9.0	3.5	534	156	12	20.9	7.1	6.6	0.00	0.00	0.00	0.00						97.953	95.890	7.57	4.8	34.2	10.8	6.80	4.3	16.2	12.0					
07/19/2020	6.77	0.00	8.0	5.6	5.1	330	211	10	20.5	7.1	6.5	0.00	0.00	0.00	0.00	0.30	12	0.20	8		98.068	96.667	7.78	4.6	12.2	9.4	7.14	4.7	15.2	12.0					
07/20/2020	7.11	<0.10	9.6	6.4	7.5	403	315	4	20.8	6.8	3.6	0.00	0.00	0.00	0.00	0.74	31	0.36	15		97.807	97.460	7.43	4.4	15.6	10.8	6.74	5.9	16.2	11.6					
07/21/2020	6.79	<0.10	10.4	7.2	5.4	436	227	3	20.8	6.8	4.7	0.00	0.00	0.00	0.00	1.04	44	0.32	13		98.800	98.339	7.39	6.5	16.2	11.4	6.61	7.4	18.2	13.6					
07/22/2020	6.87	<0.10	26.4	14.2	12.8	1,092	529	7	19.9	6.7	6.4	0.00	0.00	0.00	0.00						97.156	96.607	7.47	7.8	17.8	13.2	6.74	11.4	30.6	26.2					
07/23/2020	7.14	0.30	16.6	9.0	8.9	934	501	9	21.0	6.4	9.3	0.00	0.00	0.00	0.00						97.664	96.719	7.39	7.5	11.0	9.4	6.50	7.3	20.0	16.2					
07/24/2020	6.82	0.10	8.2	7.8	3.2	465	181	45	22.8	6.6	4.3	0.00	0.00	0.00	0.00						99.192	97.929	7.45	3.8	13.0	11.2	6.41	4.2	16.0	13.8					
07/25/2020	7.01	0.10	9.4	7.8	4.2	413	185	5	20.5	7.2	2.1	0.00	0.00	0.00	0.00						98.286	96.643	7.09	4.0	18.6	13.0	6.14	3.9	17.4	15.0					
07/26/2020	6.86	0.10	3.2	2.6	4.5	134	188	12	21.6	7.0	2.1	0.00	0.00	0.00	0.00	0.31	13	0.12	5		98.611	98.384	7.65	3.0	11.8	10.0	6.94	4.0	18.4	16.2					
07/27/2020	6.99	<0.10	8.0	6.0	5.0	332	208	8	22.3	6.7	2.3	0.00	0.00	0.00	0.00	1.04	43	0.10	4		99.020	97.222	7.19	3.6	11.6	9.0	6.34	4.3	13.4	10.2					
07/28/2020	6.69	<0.10	11.6	8.8	11.0	500	474	18	20.0	6.6	2.7	0.00	0.00	0.00	0.00	1.79	77	0.17	7		97.905	97.786	7.26	4.5	16.4	12.8	6.33	6.0	10.8	8.0					
07/29/2020	6.80	0.20	5.0	5.0	8.0	212	340	18	21.3	6.6	3.5	0.00	0.00	0.00	0.00	1.22	52				98.699	98.711	7.35	4.8	9.8	8.8	6.49	7.0	16.2	14.4					
07/30/2020	6.91	<0.10	4.0	2.8	5.0	169	211	2	21.6	6.5	2.4	0.00	0.00	0.00	0.00						98.611	99.095	7.36	3.7	9.8	8.6	6.55	4.7	13.6	12.6					
07/31/2020	6.93	0.10	12.0		5.5	560	257	6	22.0	6.9	2.8	0.00	0.00	0.00	0.00						98.690	97.170	7.41	6.5	5.6		6.47	5.0	3.0						
MMAVG																MMAVG		0.58																	
Min.	6.7	0.00	3	3	3	134	115	0	19.0	6.2	2			0.00	0.00	0.09	4	0.10	4		97.16	94.85	7.1	2.4	5.6	6.2	6.1	2.8	3.0	7.0	58.0	58	0.57	24.0	<0.20
Max.	7.2	0.40	26	14	13	1092	529	45	23.2	7.3	9			0.00	0.00	1.89	82	0.69	28		99.61	99.10	7.8	11.7	34.2	22.4	7.6	11.4	38.6	32.6	58.0	58	0.57	24.0	<0.20
Total																																			
Average	7.0	<0.08	10	8	6	445	251	6	21.0	6.7	4			0.00	0.00	0.84	36	0.27	11		98.37	97.39	7.5	5.6	15.0	11.4	6.9	5.8	18.4	15.2	58.0	58	0.57	24.0	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
07/01/2020	8,740	8,550	7,000	6,830	19,620	18,470	6.17	5.98	1,163,520	1,157,760	49,566	48,489			3,949	26,766	46	47	7,010	7,400	5,610	5,870		16,720	2.73	2.94		2,312,640	64,310	67,888			4,600	33,601	43	43
07/02/2020	8,950	8,420	6,740	6,750	17,850	16,670	5.69	5.36	1,032,480	1,015,200	50,757	47,752			4,871	35,033	45	48	7,010	7,560	5,140	5,730		12,420	2.84	2.85		2,049,120	64,310	69,355			3,472	33,517	43	42
07/03/2020	8,950	7,810	6,980	5,870	15,420	18,350	5.62	5.44	576,000	580,320	50,757	44,292			4,736	33,384	45	49	6,970	7,900	5,380	6,050		14,850	2.91	2.94		1,141,920	86,694	72,475			4,616	33,614	42	43
07/04/2020	8,690	7,750	6,750	5,980	16,010	15,130	6.03	5.84	921,600	921,600	49,283	43,952			4,644	33,649	43	44	6,710	8,040	5,290	6,230		17,100	3.00	3.14		1,872,000	61,558	73,759			4,520	33,576	48	34
07/05/2020	8,250	6,320	6,310	4,850	13,440	16,960	6.43	6.37	475,200	475,200	46,787	35,842			2,726	21,600	46	51	6,520	7,510	5,040	5,720		13,860	3.38	3.06		936,000	59,814	68,897			3,080	21,600	41	45
07/06/2020	8,200	7,140	6,330	5,450	15,380	15,880	6.49	6.27	642,240	639,360	46,504	40,492					46	41	6,720	7,920	5,180	6,160		16,420	3.47	3.10		1,297,440	61,649	72,658					39	37
07/07/2020	7,220	6,410	5,530	4,930	13,770	16,530	6.60	6.45	590,400	590,400	40,946	36,352			3,006	22,244	49	47	6,630	7,700	5,080	5,870		14,370	2.70	3.09		1,180,800	60,824	70,640			2,978	22,198	42	44
07/08/2020	7,090	5,960	5,520	4,620	13,990	17,390	6.27	5.86	619,200	612,000	40,209	33,800			3,226	21,409	47	49	6,420	7,480	4,920	5,690		15,720	2.61	3.04		1,252,800	58,897	68,622			3,146	21,567	41	43
07/09/2020	7,700	8,780	5,940	6,790	17,420	16,140	5.21	5.65	616,320	639,360	43,668	49,793			2,981	21,319	58	43	6,670	11,430	5,170	8,740		16,050	2.72	2.89		1,285,920	61,191	104,859			2,865	21,629	42	32
07/10/2020	7,900	7,420	6,110	5,750	19,610	18,870	5.73	6.27	633,600	630,720	44,802	42,080			3,224	21,611	51	47	4,530	5,080	3,500	3,920	11,990	10,880	4.47	3.25	619,200	624,960	41,558	46,604			1,972	21,609	44	49
07/11/2020	8,380	8,510	6,510	6,460	16,390	18,790	2.35	2.92	1,117,440	1,005,120	47,525	48,262			3,387	21,613	45	47	5,840	6,490	4,490	4,930	14,930		2.82	2.98	2,021,760		53,576	59,539	2,571	20,650			41	43
07/12/2020	8,410	9,410	6,500	7,280	16,680	17,720	3.69	3.84	692,640	709,920	47,695	53,366			3,197	21,635	48	27	5,460	6,620	4,340	5,170	14,020		3.25	3.04	1,507,680		50,090	60,732	2,526	21,600			46	45
07/13/2020	8,460	7,590	6,580	5,850	19,600	16,500	3.92	4.45	878,400	835,200	47,978	43,044			3,077	21,566	47	50	5,910	6,330	4,610	4,870	13,700		3.61	2.86	1,814,400		54,218	58,071	2,476	21,423			41	44
07/14/2020	8,980	7,650	6,860	5,920	19,430	14,560	3.89	4.81	966,240	953,280	50,927	43,385			2,828	21,565	48	50	6,120	6,320	4,630	4,780	12,750		2.96	3.74	1,890,720		56,145	57,980	2,307	21,693			44	44
07/15/2020	9,130	9,170	6,340	6,370	19,410	19,510	4.38	5.33	895,680	914,400	51,778	52,005			3,533	21,711	48	47	7,040	7,690	5,020	5,570	18,730		2.72	2.17	1,828,800		64,585	70,548	6,320	43,424			36	38
07/16/2020	8,880	8,200	6,670	6,160	18,720	16,730	5.86	5.92	720,000	691,200	50,360	46,504			6,218	43,437	43	43	6,610	7,070	5,090	5,400	14,300		3.26	3.26	1,411,200		60,640	64,860	2,264	16,200			38	40
07/17/2020	8,530	7,750	6,480	5,940	16,620	22,470	5.36	5.80	1,039,680	1,039,680	48,375	43,952			3,546	21,563	45	44	6,480	6,360	4,970	4,860	16,260		3.50	3.24	2,102,400		59,448	58,347	2,937	21,657			39	43
07/18/2020	8,750	7,460	6,690	6,060	15,260	16,350	5.49	5.97	879,840	882,720	49,623	42,307			2,944	21,593	39	47	6,630	6,750	5,090	5,350	14,100		3.36	3.04	1,758,240		60,824	61,925	2,560	21,771			39	40
07/19/2020	8,430	6,460	6,570	5,760	16,530	15,390	5.76	6.23	649,440	668,160	47,808	36,636			2,770	21,578	43	50	6,430	15,370	5,020	13,700	15,370		3.71	3.23	1,337,760		58,989	141,004	2,791	21,775			39	20
07/20/2020	8,010	6,590	6,230	5,110	18,360	16,670	7.50	7.50	842,400	879,840	45,426	37,373			2,891	21,622	45	46	6,360	6,780	4,760	5,550	14,750		3.60	3.20	1,209,600		58,347	62,200	2,675	21,748			44	44
07/21/2020	8,120	6,320	6,190	4,890	18,460	19,750	5.20	5.60	616,320	603,360	46,050	35,842	1,885	12,254	1,870	12,126	35	44	6,490	6,970	4,890	5,330	14,200		3.00	3.10	1,241,280		59,539	63,943	2,241	18,920			39	40
07/22/2020	7,980	6,800	6,460	4,870	18,160	14,880	2.60	3.20	691,200	758,880	45,256	38,564	1,825	11,949	1,464	12,125	44	49	6,580	7,310	5,160	5,550	12,810		2.80	2.90	1,514,880		60,365	67,062	2,160	19,181			41	41
07/23/2020	8,150	7,370	6,360	5,710	17,930	17,660	5.70	5.60	593,280	645,120	46,220	41,797	1,785	12,024	1,484	12,159	43	37	6,260	6,220	4,920	5,060	17,600		3.60	2.90	1,339,200		57,429	57,062	2,830	19,335			59	55
07/24/2020	8,570	8,590	6,590	6,490	18,770	17,380	5.00	5.20	810,720	799,200	48,602	48,716	1,794	12,000	1,767	12,000	53	51	7,120	7,310	5,500	5,610	15,910		2.70	3.00	1,657,440		65,319	67,062	2,558	19,276			48	48
07/25/2020	9,360	8,530	7,160	6,540	18,580	17,480	5.55	5.90	817,920	825,120	53,082	48,375	1,811	11,850	1,773	12,164	44	43	6,640	7,460	5,100	5,720	15,240		2.65	3.41	1,641,600		60,915	68,438	2,446	19,339			45	47
07/26/2020	8,020	8,130	6,050	6,240	18,760	17,860	5.94	6.14	876,960	881,280	45,483	46,107	1,832	11,684	1,808	12,136	45	44	6,720	7,490	5,300	5,930	15,490		3.45	3.52	1,686,240		61,649	68,713	2,464	19,231			45	49
07/27/2020	9,230	8,220	6,980	6,320	18,070	18,030	5.85	6.13	989,280	1,033,920	52,345	46,617	1,893	12,099	2,875	19,302	43	44	6,710	16,120	5,230	14,260	7,810		2.55	3.65	2,073,600		61,558	147,885	1,261	19,356			48	22
07/28/2020	8,900	8,000	6,800	6,090	19,410	17,270	5.62	6.22	796,320	797,760	50,474	45,370	1,817	11,955	1,671	12,036	48	45	7,090	7,920	5,400	6,130	15,220		3.05	3.52	1,601,280		65,044	72,658	2,429	19,139			44	51
07/29/2020	9,480	7,930	7,320	6,080	20,160	16,360	5.73	6.15	806,400	830,880	53,763	44,973	2,483	16,800	4,764	34,749	50	44	6,590	9,470	5,110	7,320	16,680		3.40	2.90	1,658,880		60,457	86,878	5,629	41,872			49	49
07/30/2020	8,970	7,820	6,940	6,000	21,360	19,180	5.65	5.95	709,920	717,120	50,871	44,349	2,931	16,455	2,646	16,540	46	46	7,170	8,780	5,570	6,760	16,190		2.67	2.97	1,431,360		65,778	80,548	4,864	36,021			47	46
07/31/2020	8,850	7,490	7,040	5,890	19,260	17,980	5.12	5.54	1,329,120	1,392,480	50,190	42,477	2,313	16,689	2,341	16,861	45	43	6,790	4,610	6,480	3,660	15,340		1.87	2.93	2,802,240		62,291	42,292	2,469	19,301			47	80
MMAVG																																				
Min.	7,090	5,960	5,520	4,620	13,440	14,560	2	3	475,200	475,200	40,209	33,800	1,785	11,684	1,464	12,000	35	27	4,530	4,610	3,500	3,660	7,810	10,880	2	2	619,200	624,960	41,558	42,292	1,261	16,200	1,972	21,567	36	20
Max.	9,480	9,410	7,320	7,280	21,360	22,470	8	8	1,329,120	1,392,480	53,763	53,366	2,931	16,800	6,218	43,437	58	51	7,170	16,120	6,480	14,260	18,730	17,100	4	4	2,802,240	2,312,640	65,778	147,885	6,320	43,424	4,616	33,614	59	80
Total									24,989,760	25,126,560	1,493,110	1,352,865	22,369	145,759	92,217	647,096											36,149,760	13,953,600	1,855,260	2,233,504	60,778	482,912	31,249	242,911		
Average	8,493	7,695	6,533	5,931	17,691	17,384	5	6	806,121	810,534	48,165	43,641	2,034	13,251	3,074	21,570	46	45	6,524	7,854	5,064	6,177	14,700	14,839	3	3	1,643,171	1,395,360	59,847	72,049	2,894	22,996	3,472	26,990	43	43

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
08/01/2020	4.77	7.09	2.23	0.00		0.000	13,115		68.0	11.8	7.56	390	184	15,515	7,320		7.16	2.5	130		315	5,172	12,531		
08/02/2020	4.55	10.50	2.36	0.06		0.000	3,141		68.0	11.9	7.59	312	222	11,839	8,424		7.21	1.2	124	106	276	4,705	10,473		
08/03/2020	5.11	6.97	2.29	0.06		0.000	39,563		84.0	11.9	6.93	435	424	18,539	18,070		7.15	6.0	62	138	540	2,642	23,013		
08/04/2020	4.95	16.95	0.00	0.27		0.000	69,878		70.0	12.0	7.19	450	382	18,577	15,770		6.98	11.0	416	355	450	17,174	18,577		
08/05/2020	5.92	8.02	0.00	0.00		0.000	36,707		76.0	11.9	6.87	585	276	28,883	13,627		6.70		362	304	6	17,873	296		
08/06/2020	4.74	8.00	2.23	0.00		0.000	43,329		66.0	12.8	6.82	570	348	22,533	13,757		6.75	7.5	300	229	630	11,859	24,905		
08/07/2020	4.84	7.82	2.50	0.00		0.000	63,976		63.0	12.8	6.73	407	384	16,429	15,500		6.77	15.0	294	249	356	11,867	14,370		
08/08/2020	4.62	7.72	2.17	0.00		0.000	7,309		70.0	12.0	7.46	375	224	14,449	8,631		7.01	9.0	270	203	330	10,403	12,715		
08/09/2020	4.47	7.88	2.13	0.00		0.000	3,465		68.0	12.6	7.35	447	202	16,664	7,531		7.20	2.0	91	82	387	3,392	14,427		
08/10/2020	4.67	9.64	2.06	0.00		0.000	56,500		63.0	12.2	8.10	645	410	25,121	15,969		7.29	2.0	144	128	377	5,608	14,683		
08/11/2020	4.85	8.61	2.02	0.00		0.000	33,220				7.06	245	986	9,910	39,883		6.95	28.0	423	354	198	17,110	8,009		
08/12/2020	4.78	8.49	1.97	0.00		0.000	35,574		75.0	12.1	7.38	495	664	19,733	26,470		6.92	10.0	221	191	423	8,810	16,863		
08/13/2020	4.56	7.84	2.44	0.00		0.000	73,406		65.0	11.9	7.15	615	788	23,389	29,968		6.57	22.0	523	442	495	19,890	18,825		
08/14/2020	4.83	8.28	1.96	0.00		0.000	57,223		66.0	12.1	7.26	405	812	16,314	32,709		6.99	5.0	166	150	390	6,687	15,710		
08/15/2020	4.63	8.29	1.92	0.00		0.000	2,877		66.0	12.1	7.44	600	720	23,169	27,802		7.03	20.0	568	465	474	21,933	18,303		
08/16/2020	4.50	8.55	1.93	0.00		0.000	416		64.0	12.0	7.34	396	732	14,862	27,472		7.05	8.0	170	140	318	6,380	11,935		
08/17/2020	4.76	8.60	2.11	0.10		0.000	59,533		66.0	11.9	7.73	480	822	19,055	32,632		7.66	0.8	118	103	395	4,684	15,681		
08/18/2020	4.55	10.62	2.22	0.00		0.000	61,772		63.0	11.8	7.48	405	792	15,369	30,054		6.94	30.0	804	672	555	30,509	21,061		
08/19/2020	4.84	7.43	1.91	0.20		0.000	76,537		57.0	11.9	7.78	450	894	18,165	36,087		7.53	2.5	164	150	396	6,620	15,985		
08/20/2020	4.58	8.09	2.16	0.00		0.000	65,956		55.0	12.0	7.93	435	968	16,616	36,975		7.15	6.5	254	227	450	9,702	17,189		
08/21/2020	4.51	7.92	1.60	0.00		0.000	61,825		54.0	11.8	7.06	360	788	13,541	29,639		7.61	18.0	369	312	459	13,879	17,265		
08/22/2020	4.12	7.00	1.83	0.07		0.000	8,735		64.0	12.1	7.49	246	2382	8,453	81,847		6.99	4.0	211	176	324	7,250	11,133		
08/23/2020	4.22	11.85	0.00	0.05		0.000	3,957		65.0	12.2	7.46	378	594	13,304	20,906		7.45	7.0	255	211	401	8,975	14,113		
08/24/2020	4.47	11.84	0.00	1.74		0.000	73,168		60.0	12.6	7.31	630	1576	23,486	58,753		7.33	2.5	170	141	392	6,338	14,614		
08/25/2020	3.24	8.18	1.64	0.00		0.000	72,434		60.0	12.4	7.46	690	778	18,645	21,023		7.17	21.0	666	564	525	17,996	14,186		
08/26/2020	4.64	8.27	1.83	0.00		0.000	111,900		55.0	12.8	7.65	555	922	21,477	35,679		7.20		508	446	525	19,658	20,316		
08/27/2020	4.67	13.48	1.83	0.15		0.000	55,907		56.0	12.7	7.70	420	872	16,358	33,962		7.31	7.5	405	345	360	15,774	14,021		
08/28/2020	5.01	8.42	1.60	1.06		0.000	57,916		58.0	12.9	7.61	540	824	22,563	34,430		7.03	10.0	345	305	435	14,415	18,176		
08/29/2020	5.71	15.17	1.81	0.35		0.000	202		57.0	12.5	7.59	306	676	14,572	32,192		7.11	3.0	221	186	348	10,524	16,572		
08/30/2020	5.71	8.09	1.65	0.00		0.000	101		68.0	12.1	7.42	378	428	18,001	20,382		7.36	2.8	137	114	288	6,524	13,715		
08/31/2020	4.51	9.10	1.75	0.00		0.000	105,726		56.0	11.7	7.54	525	934	19,747	35,131		7.58	3.0	131	113	375	4,927	14,105		
MMAVG	8.01																								
Min.	3.2	7.0	0.0	0.0		0.000	101		54.0	11.7	6.73	245	184	8,453	7,320		6.57	0.8	62	82	6	2642	296		
Max.	5.9	17.0	2.5	1.7		0.000	111,900		84.0	12.9	8.10	690	2382	28,883	81,847		7.66	30.0	804	672	630	30509	24905		
Total	146.3	284.7	54.2	4.1		0.000	1,355,368																		
Average	4.7	9.2	1.7	0.1		0.000	43,722		64.20	12.18	7.40	457	710	17912	27374		7.13	9.2	291	253	393	11267	15283		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																				PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
08/01/2020	6.90	0.10	6.0		4.7	239	187	5	22.3	6.7	2.3	0.00	0.00	0.00	0.00						98.795	96.739	7.43	7.4	13.6			0.0								
08/02/2020	7.04	0.01	7.8	5.8	5.1	296	194	0	24.2	6.7	2.5	0.00	0.00		0.00	1.77	67	0.18	7		98.365	96.486	7.32	3.5	59.8	31.2	6.36	2.7	13.6	10.0					
08/03/2020	6.74	0.10	9.0	8.4	5.7	384	243	1	23.2	6.2	1.7	0.00	0.00	0.00	0.00	1.85	79	0.29	12		98.690	97.877	7.27	4.4	88.2	50.6	6.18	3.4	14.8	11.4					
08/04/2020	6.75	0.10	14.8	12.0	6.5	611	268	0	22.0	6.4	1.6	0.00	0.00	0.00	0.00						98.556	96.126	7.28	6.9	23.2	19.6	6.32	11.7	28.2	23.4					
08/05/2020	6.95	0.10	3.4	5.6	4.3	168	212	0	22.0	6.3	1.5	0.00	0.00	0.00	0.00						99.265	98.768	7.21	7.0	7.0	4.6	6.38	4.9	6.8	8.6					
08/06/2020	6.89	0.01	6.4	5.6	6.5	253	257	1	27.7	6.3	1.7	0.00	0.00	0.00	0.00						98.860	98.161	7.23	6.9	4.8	5.0	7.30	5.5	8.8	6.8					
08/07/2020	7.06	0.01	14.4	12.4	5.4	581	218	6	26.8	6.3	2.9	0.00	0.00	0.00	0.00						98.673	96.250	7.29	5.2	12.2	9.0	6.42	4.4	11.2	6.4					
08/08/2020	7.04	0.00	10.2	5.8	4.2	393	162	48	24.1	6.8	2.8	0.00	0.00	0.00	0.00						98.880	95.446	7.38	9.4	28.2	44.2	6.26	6.2	12.8	2.2					
08/09/2020	6.86	0.01	7.6	9.0	4.2	283	157	49	23.7	6.9	2.1	0.00	0.00	0.00	0.00	0.95	35				99.060	96.238	7.32	6.4	9.0	10.2	6.20	4.9	11.8	8.8					
08/10/2020	6.71	0.01	6.0	5.6	4.0	234	156	1	24.6	6.2	1.9	0.00	0.00	0.00	0.00	0.63	25	0.17	7		99.380	98.537	7.35	4.5	8.6	8.2	6.60	11.3	14.4	12.2					
08/11/2020	6.90	0.10	9.2	7.0	4.2	372	170	0	22.6	6.3	2.0	0.00	0.00	0.00	0.00	0.69	28	0.20	8		98.286	99.067	7.23	5.0	13.0	9.6	6.41	4.5	15.6	12.8	65.00	52.00	<0.50	32.00	<0.20
08/12/2020	6.75	0.00	4.8	4.0	5.4	191	215	10	22.0	6.2	1.5	0.00	0.00	0.00	0.00			0.22	9		98.909	99.277	8.15	6.4	14.6	10.2	7.86	4.7	12.6	9.8					
08/13/2020	6.98	<0.10	6.6	4.8	5.1	251	194	5	22.3	6.0	2.9	0.00	0.00	0.00	0.00						99.171	99.162	7.96	5.6	12.4	9.0	7.88	7.0	11.2	8.6					
08/14/2020	6.99	<0.10	3.6	3.4	7.0	145	282	4	21.3	6.9	2.5	0.00	0.00	0.00	0.00						98.272	99.557	8.14	5.3	12.0	11.2	7.99	4.9	11.2	10.0					
08/15/2020	7.18	<0.10	4.8	4.0	5.1	185	197	2	21.5	6.7	2.1	0.00	0.00	0.00	0.00						99.150	99.333	8.22	6.1	11.6	9.2	8.04	4.8	14.0	11.2					
08/16/2020	7.08	<0.10	6.0	4.6	4.0	225	150	4	22.4	6.4	2.3	0.00	0.00	0.00	0.00	1.75	66	0.40	15		98.990	99.180	7.14	5.5	17.0	12.8	6.53	4.4	16.8	12.4					
08/17/2020	6.82	<0.10	6.4	4.6	5.8	254	230	3	23.0	6.2	3.7	0.00	0.00	0.00	0.00	2.54	101	0.35	14		98.792	99.221	7.69	6.4	23.4	15.2	6.94	4.6	14.8	11.2					
08/18/2020	7.11	<0.10	9.0	6.6	5.9	342	224	3	22.5	6.2	3.2	0.00	0.00	0.00	0.00	2.58	98	0.36	14		98.543	98.864	6.99	7.9	23.0	17.4	6.35	7.0	31.4	24.0					
08/19/2020	6.94	<0.10	7.0	5.0	7.6	283	307	6	22.5	6.0	5.2	0.00	0.00	0.00	0.00						98.311	99.217	7.62	8.0	20.8	16.4	6.90	7.1	18.6	14.8				34.00	
08/20/2020	7.24	<0.10	7.2	5.0	8.7	275	332	6	21.2	6.1	4.2	0.00	0.00	0.00	0.00						98.000	99.256	7.21	7.3	31.2	28.6	6.43	6.7	18.6	15.6					
08/21/2020	6.77	<0.10	12.2	9.2	5.2	459	196	38	19.9	6.6	12.1	0.00	0.00	0.00	0.00						98.556	98.452	7.69	7.2	21.6	15.8	6.91	7.7	22.4	16.0					
08/22/2020	7.25	0.00	14.0	9.8	9.0	481	309	9	24.2	6.2	3.5	0.00	0.00	0.00	0.00						96.341	99.412	7.10	8.4	20.8	15.4	6.50	19.2	39.2	31.0					
08/23/2020	6.83	0.00	7.2	5.8	6.2	253	218	10	22.8	6.4	3.7	0.00	0.00	0.00	0.00	2.31	81	0.64	23		98.360	98.788	7.27	9.5	20.6	17.4	6.37	8.0	19.6	17.6					
08/24/2020	6.82	<0.10	12.0	8.2	7.7	447	287	4	21.2	6.6	5.7	0.00	0.00	0.00	0.00	2.45	91	0.39	15		98.778	99.239	7.14	13.2	53.0	31.6	7.16	8.5	25.0	17.6					
08/25/2020	6.89	0.50	11.0	8.2	9.6	297	259	5	21.7	6.1	10.9	0.00	0.00	0.00	0.00	2.83	76	0.62	17		98.609	98.586	7.41	14.9	36.0	28.2	7.20	8.4	23.4	18.8					
08/26/2020	6.90	0.10	10.4	7.0	10.4	402	402	13	21.2	6.1	8.4	0.00	0.00	0.00	0.00						98.126	98.872	7.59	14.1	36.2	28.6	7.02	10.8	22.0	18.0					
08/27/2020	7.12	<0.10	13.2	8.6	13.2	514	514	25	22.1	6.1	5.5	0.00	0.00	0.00	0.00						96.857	98.486	7.65	13.2	30.2	23.8	7.10	8.9	18.6	13.4					
08/28/2020	7.26	<0.10	10.0	7.2	4.8	418	201	687	23.5	6.4	4.6	0.00	0.00	0.00	0.00						99.111	98.786	7.74	9.9	18.0	16.4	7.12	7.9	23.6	21.0					
08/29/2020	7.30	0.01	15.8	12.0	6.8	752	324	4	22.9	6.0	3.7	0.00	0.00		0.00						97.778	97.663	7.17	17.3	23.8	18.0	6.69	6.3	20.2	15.4					
08/30/2020	6.89	0.01	7.4	5.4	5.7	352	271	0	23.4	5.7	2.1	0.00	0.00	0.00	0.00	0.46	22	0.13	6		98.492	98.271	7.33	6.0	14.8	12.8	6.74	5.3	15.4	12.2					
08/31/2020	6.87	<0.10	6.6	5.0	4.9	248	184	6	23.0	6.2	4.8	0.00	0.00	0.00	0.00	0.76	29	0.12	5		99.067	99.293	7.55	5.5	16.8	12.0	6.89	4.6	14.4	11.2					
MMAVG														MMAVG		0.72																			
Min.	6.7	0.00	3	3	4	145	150	0	19.9	5.7	1			0.00	0.00	0.46	22	0.12	5		96.34	95.45	7.0	3.5	4.8	4.6	6.2	0.0	6.8	2.2	65.0	52	<0.50	32.0	<0.20
Max.	7.3	0.50	16	12	13	752	514	687	27.7	6.9	12			0.00	0.00	2.83	101	0.64	23		99.38	99.56	8.2	17.3	88.2	50.6	8.0	19.2	39.2	31.0	65.0	52	<0.50	34.0	<0.20
Total																																			
Average	7.0	<0.08	9	7	6	342	243	5	22.8	6.3	4			0.00	0.00	1.66	61	0.31	12		98.55	98.34	7.5	7.9	23.4	18.1	6.8	6.7	17.7	13.7	65.0	52	<0.50	33.0	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
08/01/2020	8,140	6,170	6,170	4,790	18,140	15,290	6.18	6.67	619,200	630,720	46,164	34,991	2,531	16,730	2,108	16,531	52	50	6,310	7,330	4,820	5,600	14,920		3.41	3.38	1,372,320		57,888	67,245	2,421	19,456			54	53
08/02/2020	7,080	5,420	5,490	4,160	13,770	10,270	6.64	6.82	779,040	773,280	40,152	30,738	1,950	16,978	1,422	16,603	48	50	6,310	7,140	4,890	5,490	14,750		3.63	3.73	1,463,040		57,888	65,502	2,343	19,050			54	53
08/03/2020	7,280	6,100	5,560	4,730	13,650	19,490	5.49	5.25	789,120	800,640	41,286	34,594	1,931	16,892	2,105	16,961	48	49	7,000	7,150	5,350	5,490	15,440		2.67	3.31	1,571,040		86,694	65,594	2,469	19,170			49	52
08/04/2020	8,420	6,640	6,390	5,120	13,350	18,330	6.04	6.22	720,000	688,320	47,752	37,657	2,030	16,487	2,654	16,760	45	48	6,460	7,630	5,000	5,920	16,850		3.56	3.52	1,478,880		59,264	69,998	2,704	19,239			50	49
08/05/2020	8,680	8,190	6,580	6,290	18,590	19,790	4.86	5.26	882,720	879,840	49,226	46,447	2,238	16,800	2,678	16,758	50	50	6,630	7,170	5,050	5,480	16,900		3.66	3.30	1,756,800		60,824	65,778	4,633	32,874			51	53
08/06/2020	9,350	8,410	7,170	6,430	17,680	16,260	4.36	4.77	547,200	558,720	53,026	47,695	5,368	33,540	4,724	33,636	47	49	7,400	6,600	5,790	5,140	15,160		3.08	3.45	1,622,880		67,888	60,548	5,297	38,528			45	56
08/07/2020	7,870	7,440	6,020	7,250	14,370	15,530	4.98	5.02	766,080	754,560	44,632	42,194	4,528	33,389	4,524	33,680	46	47	6,530	6,960	3,530	5,370	15,880		3.10	3.61	1,542,240		59,906	63,851	5,996	43,048			54	53
08/08/2020	8,250	8,080	6,240	6,120	12,080	14,850	4.75	4.84	1,152,000	1,152,000	46,787	45,823	2,403	23,856	2,970	23,983	51	50	7,300	7,710	5,560	5,780	12,660		3.09	3.42	2,154,240		66,970	70,732	3,049	28,874			49	53
08/09/2020	9,550	8,830	7,390	7,430	12,640	16,810	4.27	4.75	1,176,480	1,146,240	54,160	50,077	2,439	23,660	3,169	24,001	50	50	7,260	7,710	5,000	5,910	12,010		3.53	3.51	2,151,360		66,603	70,732	2,877	28,728			51	52
08/10/2020	9,800	9,150	7,480	6,950	14,700	16,760	3.97	4.60	1,160,640	1,153,440	55,578	51,891	2,703	23,707	3,362	24,015	56	56	7,280	7,620	5,580	5,860	13,540		3.58	3.62	2,160,000		66,787	69,906	3,253	28,809			52	55
08/11/2020	9,590	8,950	7,190	6,690	15,170	17,130	5.01	5.48	1,160,640	1,153,440	54,387	50,757	3,173	23,935	3,415	23,990	50	45	7,200	7,380	5,400	5,540	13,520		3.49	3.51	2,164,320		66,053	67,704	3,246	28,792			53	56
08/12/2020	9,400	7,480	6,820	5,660	15,710	15,510	5.05	5.25	1,134,720	1,141,920	53,309	42,421	3,053	23,865	3,268	24,011	48	63	6,680	8,820	5,580	6,580	12,900		3.30	3.20	2,164,320		61,282	80,915	3,086	28,686			60	50
08/13/2020	9,030	8,790	6,850	6,680	14,120	16,850	5.50	5.51	1,149,120	1,144,800	51,211	49,850	2,996	23,732	3,334	23,995	50	51	6,960	7,210	5,320	5,490	11,790		3.33	3.37	2,158,560		63,851	66,145	2,825	28,735			55	57
08/14/2020	8,980	8,710	6,790	6,560	14,520	16,190	5.05	5.30	1,149,120	1,152,000	50,927	49,396	2,441	20,441	2,847	20,661	54	54	7,050	7,970	5,370	6,090	13,780		2.74	3.04	2,160,000		64,677	73,117	2,204	19,176			53	54
08/15/2020	8,780	9,010	6,740	6,880	13,160	15,220	3.70	4.30			49,793	51,098	1,844	16,800	2,137	16,832	49	51	7,320	7,870	5,630	6,010	12,760		2.90	3.10	2,158,560		67,154	72,199	2,053	19,293			51	51
08/16/2020	10,050	8,580	7,780	6,670	13,170	15,180	4.20	4.90	1,170,720	1,153,440	56,996	48,659	1,820	16,571	2,112	16,685	58	55	7,590	7,740	5,960	5,960	12,330		3.50	3.10	2,158,560		69,631	71,007	1,986	19,316			53	56
08/17/2020	8,620	8,250	6,510	6,260	13,440	14,720	4.61	5.24	1,166,400	1,144,800	48,886	46,787	1,883	16,798	2,098	17,086	55	55	7,340	7,550	5,730	5,810	13,410		3.86	3.03	2,152,800		67,337	69,264	2,151	19,230			55	58
08/18/2020	8,300	8,320	6,420	6,440	13,420	14,620	4.51	4.96	1,154,880	1,152,000	47,071	47,184	1,860	16,618	2,051	16,822	54	51	7,340	7,750	5,700	6,000	13,380		3.62	2.84	2,170,080		67,337	71,099	2,143	19,200			53	62
08/19/2020	8,710	8,750	6,620	6,650	13,970	14,640	4.37	4.65	1,169,280	606,240	49,396	49,623	1,981	17,000	2,062	16,890	48	50	7,520	7,620	5,770	5,780	13,230		3.00	3.03	2,155,680		68,988	69,906	2,113	19,153			53	54
08/20/2020	8,500	8,410	6,530	6,480	15,660	13,730	4.58	4.84	1,156,320	1,147,680	48,205	47,695	2,176	16,660	1,922	16,788	48	49	7,420	7,490	5,770	5,830	11,960		3.11	3.34	2,162,880		68,071	68,713	1,921	19,256			54	53
08/21/2020	8,410	8,440	6,490	6,560	14,530	14,130	3.17	3.70	1,123,200	1,152,000	47,695	47,865	2,568	16,890	2,114	16,890	52	59	7,580	6,770	5,900	5,290	14,680		2.45	2.50	2,165,760		69,539	62,108	2,371	19,364			55	59
08/22/2020	8,470	8,110	6,490	6,200	15,720	14,340	4.39	4.63	1,152,000	1,166,400	48,035	45,993	2,133	16,874	2,194	16,987	52	53	8,260	7,350	6,340	5,730	14,130		3.33	3.58	2,160,000		75,777	67,429	2,268	19,248			55	54
08/23/2020	8,400	8,990	6,490	6,950	13,090	13,040	4.40	4.80	1,146,240	1,143,360	47,638	50,984	1,821	16,680	1,837	16,890	52	53	7,720	7,780	6,000	6,050	12,860		3.70	3.60	2,157,120		70,823	71,374	2,065	19,250			52	51
08/24/2020	8,070	8,320	6,610	6,160	13,680	13,640	4.73	4.88	1,152,000	1,152,000	45,767	47,184	3,112	27,279	3,139	27,594	52	51	8,190	13,250	6,130		13,250		3.50	3.81	2,160,000		75,135	121,556	2,128	19,257			51	32
08/25/2020	7,030	6,820	5,520	5,310	11,490	14,820	5.10	5.30	620,640	673,920	39,869	38,678	1,677	15,862	1,891	16,081	43	44	5,350	5,430	4,350	4,270	6,230	6,580	4.90	5.10	933,120	1,061,280	49,081	49,815	611	16,855			52	52
08/26/2020	6,870	6,640	5,380	5,110	16,820	14,200	5.10	5.70	830,880	623,520	38,961	37,657	4,050	28,870	3,424	28,912	39	45	2,950	2,610	2,410	2,120	3,220	3,010	6.00	5.00	686,880	686,880	27,063	23,944	565	14,329	580	14,500	58	58
08/27/2020	6,160	6,310	4,650	4,570	19,540	15,070	5.10	5.20	816,480	792,000	34,935	35,785	2,207	14,523	1,758	13,856	46	44	6,790	5,910	5,090	4,410	12,100	13,190	2.60	2.80	731,520	3,600,000	62,291	54,218	1,964	14,169	1,841	14,438	49	54
08/28/2020	6,420	6,100	5,120	4,790	12,370	17,000	5.68	5.74	1,153,440	1,162,080	36,409	34,594	2,005	16,880	2,618	16,922	42	49	6,750	6,320	5,420	5,060	11,950	17,170	3.56	3.33	1,163,520	1,176,480	61,925	57,980	1,639	16,442	2,411	16,835	49	52
08/29/2020	5,670	5,690	4,410	4,450	10,420	16,670	6.42	6.13	973,440	957,600	32,156	32,269	1,660	16,741	2,302	16,707	44	42	6,390	6,090	5,010	4,820	13,610	14,630	3.76	3.57	961,920	963,360	58,622	55,870	1,909	16,815	2,023	16,576	49	49
08/30/2020	8,470	7,040	6,630	5,490	12,530	16,280	5.45	5.32	708,480	709,920	48,035	39,925	1,634	17,071	2,328	16,946	35	43	6,450	6,200	5,000	4,820	12,550	12,630	4.26	4.42	704,160	707,040	59,172	56,879	1,759	16,802	1,776	16,860	47	48
08/31/2020	10,940	7,820	8,420	6,040	16,530	14,420	5.79	5.75	675,360	673,920	62,043	44,349	2,030	16,752	2,169	16,941	32	45	6,550	6,800	5,080	5,300	11,890	14,870	4.35	4.27	696,960	709,920	60,090	62,383	1,677	16,916	2,051	16,540	49	47
MMAVG																																				
Min.	5,670	5,420	4,410	4,160	10,420	10,270	3	4	547,200	558,720	32,156	30,738	1,634	14,523	1,422	13,856	32	42	2,950	2,610	2,410	2,120	3,220	3,010	2	3	686,880	686,880	27,063	23,944	565	14,169	580	14,438	45	32
Max.	10,940	9,150	8,420	7,430	19,540	19,790	7	7	1,176,480	1,166,400	62,043	51,891	5,368	33,540	4,724	33,680	58	63	8,260	13,250	6,340	6,580	16,900	17,170	6	5	2,170,080	3,600,000	75,777	121,556	5,996	43,048	2,411	16,860	60	62
Total									29,355,840	28,540,800	1,470,487	1,360,860	76,245	618,881	80,736	621,414											53,399,520	8,904,960	1,962,135	2,063,511	77,726	688,060	10,682	95,749		
Average	8,364	7,741	6,418	5,996	14,453	15,509	5	5	978,528	951,360	47,435	43,899	2,460	19,964	2,604	20,046	48	50	6,899	7,256	5,275	5,433	13,021	11,726	4	3	1,722,565	1,272,137	63,295	66,565	2,507	22,195	1,780	15,958	52	53

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FLOW DATA								INFLUENT DATA								PRIMARY EFFLUENT DATA								
								Merchant																	
	Final flow	Max Flow	Min. Flow	Rain	SE Q	Bypass Q	Septage	Sludge	Amb. Temp	Inf. Temp	Inf. pH	Inf. BOD	Inf. TSS	Inf. BOD	Inf. TSS	Inf. PO4	Pri. Eff. pH	Pri. Eff SS	Pri. Eff. TSS	Pri. Eff. VSS	Pri. Eff. BOD	Pri. TSS	Pri. Eff. BOD	Pri. Eff. NH3	Pri. Eff. PO4
	MGD	MGD	MGD	In.	MGD	MGD	gal.	gal.	°F	°C	SU	mg/l	mg/l	lbs.	lbs.	mg/l	SU	ml/l	mg/l	mg/l	mg/l	lbs.	lbs.	mg/l	mg/l
09/01/2020	4.55	8.94	1.42	0.05		0.000	98,976		59.0	11.7	7.56	735	1592	27,891	60,412		7.35	27.0	600	504	495	22,768	18,784		
09/02/2020	4.60	9.17	2.08	0.30		0.000	63,806		60.0	11.9	7.42	420	610	16,113	23,402		7.27	6.0	158	136	405	6,062	15,537		
09/03/2020	5.19	8.42	2.16	0.00		0.000	72,249		62.0	12.8	7.27	405	770	17,530	33,329		7.14	5.0	180	154	375	7,791	16,232		
09/04/2020	4.65	9.19	1.60	0.00		0.000	49,194		60.0	12.7	7.74	630	1070	24,432	41,496		7.17	25.0	625	518	1215	24,238	47,119		
09/05/2020	4.35	7.09	1.66	0.00		0.000	190		57.0	11.8	7.54	540	1348	19,591	48,904		7.40	5.0	172	150	410	6,240	14,874		
09/06/2020	4.22	6.97	1.57	0.00		0.000	2,878				7.62	408	800	14,359	28,156		7.65	4.0	123	111	387	4,329	13,620		
09/07/2020	4.14	8.59	1.93	0.00		0.000	9,607				7.63	395	502	13,638	17,333		7.80	1.2	134	114	366	4,627	12,637		
09/08/2020	4.29	7.75	2.03	0.00		0.000	73,825		60.0	12.7	7.64	555	900	19,857	32,201		7.78	2.5	138	123	384	4,937	13,739		
09/09/2020	4.52	8.17	1.96	0.00		0.000	44,957		61.0	12.6	7.70	525	760	19,791	28,650		7.39	27.0	838	730	645	31,590	24,314		
09/10/2020	4.51	16.87	2.21	0.15		0.000	49,405		66.0	12.8	7.58	450	962	16,926	36,184		7.21	12.0	370	325	275	13,917	10,344		
09/11/2020	5.38	8.95	2.57	0.00		0.000	68,860		62.0	12.7	7.70	336	1206	15,076	54,112		7.34	7.5	318		306	14,268	13,730		
09/12/2020	4.26	7.66	2.32	0.00		0.000	580		45.0	11.8	7.53	321	2262	11,405	80,365		7.44	3.0	148		300	5,258	10,659		
09/13/2020	4.29	8.04	1.74	0.00		0.000	2,663		46.0	11.8	7.65	392	562	14,025	20,108		7.86	1.6	112	108	270	4,007	9,660		
09/14/2020	4.48	7.95	1.67	0.00		0.000	88,713		62.0	12.9	7.65	720	1338	26,902	49,992		7.77	0.5	127	121	359	4,745	13,413		
09/15/2020	4.45	8.77	1.30	0.00		0.000	111,993		45.0	11.6	7.78	735	1402	27,278	52,032		7.53	30.0	1098	952	720	40,750	26,721		
09/16/2020	4.50	9.42	1.83	0.00		0.000	86,119		52.0	11.8	7.76	575	1204	21,580	45,186		7.49	13.0	424	384	480	15,913	18,014		
09/17/2020	4.61	7.87	1.51	0.00		0.000	66,389		55.0	11.8	7.74	570	886	21,915	34,064		7.77	4.0	203	173	366	7,805	14,072		
09/18/2020	4.63	9.16	1.70	0.00		0.048	93,293		56.0	11.6	7.49	930	1686	35,911	65,104		7.41	16.0	402	344	453	15,523	17,492		
09/19/2020	4.40	8.36	1.17	0.00		0.000	4,936		38.0	11.6	7.70	396	524	14,532	19,229		7.68	7.5	169	145	318	6,202	11,669		
09/20/2020	4.04	8.20	1.23	0.00		0.000			37.0	11.7	7.68	435	500	14,657	16,847		7.67	0.5	131	114	374	4,414	12,601		
09/21/2020	4.12	8.29	1.44	0.00		0.000	83,810		37.0	11.5	7.79	575	1100	19,757	37,797		7.70	43.0	926	794	600	31,818	20,616		
09/22/2020	4.44	9.62	1.31	0.00		0.000	77,168		34.0	11.4	7.75	510	974	18,885	36,067		7.41	36.0	818	724	645	30,290	23,884		
09/23/2020	4.67	7.43	1.79	0.00		0.000	85,313		44.0	11.7	7.82	555	948	21,616	36,923		7.41	30.0	662	596	645	25,783	25,121		
09/24/2020	4.53	8.26	1.43	0.00		0.000	87,645		54.0	11.6	7.62	960	2390	36,269	90,295		7.55	5.0	232	198	525	8,765	19,835		
09/25/2020	4.42	8.72	1.62	0.47		0.000	67,123		53.0	11.8	7.00	326	1870	12,017	68,933		7.51	90.0	268	231	342	9,879	12,607		
09/26/2020	4.33	7.52	1.45	0.00		0.000	8,685		60.0	22.1	7.55	279	732	10,075	26,434		7.59	7.0	250	216	330	9,028	11,917		
09/27/2020	4.01	7.56	1.39	0.01		0.000			64.0	12.1	7.69	255	638	8,528	21,337		7.75	4.5	165	147	294	5,518	9,832		
09/28/2020	4.47	8.81	1.34	0.00		0.000	60,835		59.0	11.9	7.58	525	746	19,572	27,811		7.64	8.0	282	235	390	10,513	14,539		
09/29/2020	4.47	15.45	2.04	0.50		0.000	69,745		60.0	12.0	7.67	510	912	19,013	33,999		7.60	9.5	337	287	435	12,563	16,217		
09/30/2020	5.84	19.76	1.33	0.20		0.000	88,260		57.0	12.1	7.41	615	1124	29,954	54,745		7.60	7.5	249	218	393	12,128	19,141		
MMAVG	7.97																								
Min.	4.0	7.0	1.2	0.0		0.000	190		34.0	11.4	7.00	255	500	8,528	16,847		7.14	0.5	112	108	270	4007	9660		
Max.	5.8	19.8	2.6	0.5		0.048	111,993		66.0	22.1	7.82	960	2390	36,269	90,295		7.86	90.0	1098	952	1215	40750	47119		
Total	135.4	277.0	50.8	1.7		0.048	1,617,217																		
Average	4.5	9.2	1.7	0.1		0.002	57,758		53.75	12.38	7.61	519	1077	19637	40715		7.53	14.6	355	316	450	13389	16965		

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	FINAL EFFLUENT DATA																			PERCENT REMOVAL		FIRST STAGE EFFLUENT				SECOND STAGE EFFLUENT				METALS				
	Fin pH Grab	fin.SS	Fin. TSS	Fin. VSS	Fin. BOD	Fin. TSS	Fin. BOD	E. Coli.	Final temp.	Final DO	Final turb.	Final Cl2	Final Cl2	Final Cl2	Cl2 AVG.	Final PO4	Final PO4	Final NH3	Final NH3	(PO4)-3	BOD	TSS	pH	BOD	TSS	VSS	pH	BOD	TSS	VSS	ZINC	ALUMINUM	LEAD	COPPER	CADMIUM
	SU	ML/L	mg/l	mg/l	mg/l	lbs.	lbs.	CFU/100ml	Deg. C	mg/l	NTU	mg/l	mg/l	mg/l		mg/l	lbs.	mg/l	lbs.	mg/l	% REM	% REM	SU	mg/l	mg/l	mg/l	SU	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l
09/01/2020	7.08	<0.10	8.2	4.8	7.4	311	281	11	23.1	6.1	4.1	0.00	0.00	0.00	0.00	1.24	47	0.18	7		98.993	99.485	7.67	8.4	22.2	14.0	7.06	6.1	14.8	11.4					
09/02/2020	7.16	<0.10	10.4	7.6	8.1	399	311	17	23.3	5.8	4.8	0.00	0.00	0.00	0.00						98.071	98.295	7.75	6.0	16.6	10.4	7.01	7.0	16.6	12.0	71.00	50.00	0.51	28.00	<0.20
09/03/2020	7.12	<0.10	11.0	7.4	13.2	476	571	4	23.3	6.0	5.0	0.00	0.00	0.00	0.00						96.741	98.571	7.55	7.2	13.2	9.2	6.81	7.6	15.0	9.6					
09/04/2020	7.08	0.10	1.8	10.4	6.7	70	260	548	23.7	6.3	5.4	0.00	0.00	0.00	0.00						98.937	99.832	7.78	7.2	14.4	10.2	7.06	8.3	16.2	18.2					
09/05/2020	7.23	0.00	7.2	8.4	5.1	261	185	1	23.3	5.7	4.1	0.00	0.00	0.00	0.00						99.056	99.466	7.88	11.1	20.0	14.4	7.23	7.6	20.0	8.0					
09/06/2020	7.33	0.00	6.0	10.4	5.9	211	208	6	23.4	5.6	3.4	0.00	0.00	0.00	0.00	0.35	12	0.15	5		98.554	99.250	7.75	6.5	10.4	9.0	7.16	6.4	12.0	10.2					
09/07/2020	7.20	0.00	9.6	4.8	5.7	331	197	1	23.5	5.8	2.5	0.00	0.00	0.00	0.00	0.64	22	0.21	7		98.557	98.088	7.72	6.2	14.8	13.0	7.21	6.1	14.2	9.4					
09/08/2020	7.07	<0.10	7.2	5.8	6.0	258	215	3	23.7	5.9	3.6	0.00	0.00	0.00	0.00	1.41	50	0.17	6		98.919	99.200	7.70	7.7	17.4	14.2	6.87	6.7	13.6	10.8					
09/09/2020	7.07	<0.10	7.4	4.6	12.3	279	464	2	23.6	6.2	3.5	0.00	0.00	0.00	0.00						97.657	99.026	7.55	6.4	11.2	8.0	6.83	5.2	14.2	9.4					
09/10/2020	7.12	<0.10	10.6	7.8	7.2	399	271	7	23.9	6.1	3.3	0.00	0.00	0.00	0.00						98.400	98.898	7.35	7.3	16.2	13.6	6.39	9.5	17.0	13.6					
09/11/2020	6.97	<0.10	7.4		4.4	332	197	18	23.9	6.0	3.6	0.00	0.00	0.00	0.00						98.690	99.386	7.64	5.7	12.2		7.01	6.6	23.0						
09/12/2020	7.10	0.00	7.2		5.2	256	185	3	23.4	6.0	2.4	0.00	0.00	0.00	0.00						98.380	99.682	7.64	4.8	10.2		6.99	5.8	16.0						
09/13/2020	7.02	0.00	6.2	5.2	5.1	222	182	1	23.1	6.7	1.7	0.00	0.00	0.00	0.00	0.21	8	0.39	14		98.699	98.897	7.77	4.8	11.0	9.2	7.13	5.0	9.8	9.4					
09/14/2020	7.01	<0.10	5.6	4.8	5.5	209	205	1	23.3	5.8	3.0	0.00	0.00	0.00	0.00	0.89	33	0.40	15		99.236	99.581	7.66	5.6	11.2	9.2	7.03	5.0	13.2	11.4					
09/15/2020	7.12	<0.10	8.0	5.8	8.7	297	323	0	22.4	6.2	4.6	0.00	0.00	0.00	0.00	1.63	60	0.43	16		98.816	99.429	7.69	6.9	13.2	10.2	7.07	5.7	14.2	11.2					
09/16/2020	7.17	<0.10	8.0	5.4	5.8	300	218	5	22.2	6.0	3.6	0.00	0.00	0.00	0.00						98.991	99.336	7.87	5.7	10.8	7.8	7.21	6.8	14.2	10.2				36.00	
09/17/2020	7.23	<0.10	5.6	3.2	6.2	215	238	8	22.7	5.7	3.4	0.00	0.00	0.00	0.00						98.912	99.368	7.85	6.6	10.2	9.2	7.40	9.0	14.2	10.2					
09/18/2020	7.08	<0.10	8.4	6.8	8.0	324	309	66	22.7	5.6	2.9	0.00	0.00	0.00	0.00						99.140	99.502	8.27	5.4	11.4	10.6	8.22	7.2	17.2	14.6					
09/19/2020	7.15	<0.10	7.8	5.6	5.5	286	202	66	21.9	6.2	2.0	0.00	0.00	0.00	0.00						98.611	98.511	8.22	4.3	9.6	7.6	8.19	6.7	15.4	11.4					
09/20/2020	7.08	<0.10	7.0	4.4	6.8	236	229	3	21.4	6.2	1.8	0.00	0.00	0.00	0.00	0.56	19	0.44	15		98.437	98.600	7.65	7.5	9.4	7.2	7.12	6.5	15.0	11.4					
09/21/2020	7.20	<0.10	7.0	4.6	6.8	241	234	2	21.0	6.2	2.2	0.00	0.00	0.00	0.00	1.17	40	0.37	13		98.817	99.364	7.56	6.9	11.0	7.8	6.96	5.7	12.6	9.8					
09/22/2020	7.06	<0.10	7.8	6.4	8.7	289	322	4	21.0	6.2	3.2	0.00	0.00	0.00	0.00	1.63	60	0.48	18		98.294	99.199	7.68	6.5	11.4	9.0	7.04	6.3	21.2	24.2					
09/23/2020	7.08	<0.10	7.0	6.2	9.6	273	374	2	20.9	5.9	4.8	0.00	0.00	0.00	0.00						98.270	99.262	7.74	6.7	11.4	9.4	7.05	5.9	13.4	10.4					
09/24/2020	7.11	<0.10	7.6	6.6	8.4	287	317	6	20.9	6.1	3.4	0.00	0.00	0.00	0.00						99.125	99.682	7.68	7.2	11.2	10.0	7.00	8.0	17.6	15.2					
09/25/2020	7.05	<0.10	11.2	8.8	5.6	413	206	3	21.9	6.7	3.6	0.00	0.00	0.00	0.00						98.282	99.401	7.66	6.3	27.2	23.8	7.05	6.2	16.4	13.4					
09/26/2020	7.02	0.00	9.8	7.2	5.4	354	195	10	22.2	6.1	3.5	0.00	0.00	0.00	0.00						98.065	98.661	7.69	6.2	13.0	10.0	7.05	5.9	16.2	11.0					
09/27/2020	6.95	0.00	7.0	3.4	5.8	234	194	2	22.2	6.1	3.6	0.00	0.00	0.00	0.00	1.43	48	0.45	15		97.725	98.903	7.63	4.9	22.4	16.0	6.93	5.1	13.6	10.2					
09/28/2020	6.96	<0.10	6.8	4.8	5.6	254	209	3	22.9	5.9	2.8	0.00	0.00	0.00	0.00	1.80	67	0.49	18		98.933	99.088	7.57	5.5	9.8	6.6	6.92	6.4	15.4	11.0					
09/29/2020	7.09	<0.10	9.0	5.4	5.8	336	216	5	22.9	5.6	2.8	0.00	0.00	0.00	0.00	1.83	68	0.56	21		98.863	99.013	7.69	8.7	11.8	7.6	7.04	5.6	13.8	8.8					
09/30/2020	6.86	<0.10	11.6	9.8	8.0	565	390	11	21.4	6.6	3.8	0.00	0.00	0.00	0.00						98.699	98.968	7.50	8.7	12.0	8.0	6.88	7.8	17.6	13.8					
MMAVG													MMAVG		0.71																				
Min.	6.9	0.00	2	3	4	70	182	0	20.9	5.6	2			0.00	0.00	0.21	8	0.15	5		96.74	98.09	7.4	4.3	9.4	6.6	6.4	5.0	9.8	8.0	71.0	50	0.51	28.0	<0.20
Max.	7.3	0.10	12	10	13	565	571	548	23.9	6.7	5			0.00	0.00	1.83	68	0.56	21		99.24	99.83	8.3	11.1	27.2	23.8	8.2	9.5	23.0	24.2	71.0	50	0.51	36.0	<0.20
Total																																			
Average	7.1	<0.08	8	6	7	297	264	5	22.6	6.0	3			0.00	0.00	1.14	41	0.36	13		98.56	99.13	7.7	6.6	13.6	10.5	7.1	6.6	15.5	11.8	71.0	50	0.51	32.0	<0.20

Appendix C: NPDES Reporting Data for the Easterly Wastewater Treatment Facility

Flow Data: January 2015 through September 2020

	1ST STAGE AERATION																		2nd STAGE AERATION																	
	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI	MLSS	MLSS	MLVSS	MLVSS	RSSS	RSSS	DO	DO	RAS	RAS			Wasted	Wasted	Wasted	Wasted	SVI	SVI
	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	Side 1	Side 2	SIDE 1	SIDE 2	SIDE 1	SIDE2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	SIDE 1	SIDE 2	Side1	Side 2	Side 1	Side 1	Side 2	Side 2	SVI Side 1	SVI Side 2
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	gal/day	gal/day	lbs	lbs	lbs	gal	lbs	gal	ml/gm	ml/gm
09/01/2020	7,240	7,070	5,610	5,430	13,970	16,490	5.72	5.49	1,143,360	937,440	41,059	40,095	1,982	17,010	2,317	16,846	46	47	6,530	5,760	5,100	4,490	12,530	14,170	4.30	3.61	1,183,680	1,186,560	59,906	52,842	1,772	16,955	1,992	16,858	49	54
09/02/2020	8,040	7,560	6,340	6,000	15,510	17,240	5.66	5.29	1,022,400	1,085,760	45,596	42,874	2,178	16,841	2,411	16,766	44	45	6,700	6,070	5,310	4,860	12,760	15,700	3.85	3.33	815,040	855,360	61,466	55,686	1,811	17,014	2,357	16,923	48	49
09/03/2020	7,590	7,290	5,930	5,670	17,100	15,790	3.90	4.10	866,880	868,320	43,044	41,343	2,383	16,710	1,881	16,710	46	48	6,280	6,200	4,910	4,790	14,510	14,100	3.80	3.70	865,440	871,200	86,694	56,879	2,042	16,875	1,955	16,626	54	53
09/04/2020	7,890	7,890	6,230	6,180	16,190	15,800	4.66	4.05	1,278,720	1,296,000	44,746	44,746	2,266	16,780	2,236	16,965	44	44	6,070	6,120	4,710	4,800	12,800	13,750	3.01	3.41	1,294,560	1,277,280	55,686	56,145	1,813	16,982	1,906	16,619	51	49
09/05/2020	7,340	7,070	5,760	5,520	14,700	15,230	5.63	4.64	619,200	617,760	41,627	40,095	2,069	16,879	2,104	16,568	46	48	5,100	6,390	4,680	5,160	16,540	12,890	4.11	3.63	612,000	614,880	46,787	58,622	2,313	16,770	1,793	16,683	61	47
09/06/2020	7,080	6,870	5,430	5,290	14,600	14,830	6.32	5.44	529,920	528,480	40,152	38,961	2,033	16,697	2,072	16,754	47	47	5,930	5,650	4,500	4,350	12,030	15,010	4.32	4.19	532,800	534,240	54,402	51,833	1,683	16,770	2,099	16,770	52	51
09/07/2020	7,520	7,320	5,940	5,760	14,660	16,940	6.47	5.74	560,160	571,680	42,647	41,513	2,090	17,098	2,395	16,949	41	44	6,500	5,920	5,140	4,650	13,440	11,290	4.59	4.58	577,440	586,080	59,631	54,310	1,893	16,949	1,566	16,634	48	46
09/08/2020	6,490	5,800	4,820	4,190	11,200	13,930	6.74	6.16	698,400	685,440	36,806	32,893	1,746	14,403	1,871	14,345	43	48	5,810	5,390	4,300	4,050	11,860	11,340	4.45	4.97	658,080	659,520	53,301	49,448	1,570	16,803	1,595	16,863	52	54
09/09/2020	7,200	7,000	5,680	5,540	13,540	15,550	6.47	5.86	619,200	619,200	40,833	39,698	1,907	16,889	2,160	16,657	43	44	5,420	5,420	4,320	4,340	13,760	13,020	4.18	4.29	619,200	619,200	49,723	49,723	1,833	16,544	2,001	16,932	52	52
09/10/2020	7,560	7,410	5,930	5,740	14,380	16,210	6.41	5.35	446,400	446,400	42,874	42,024	1,853	16,395	2,168	16,709	45	42	5,960	5,910	4,630	4,640	10,660	11,040	4.14	3.97	446,400	446,400	54,677	54,218	1,511	16,998	1,523	16,546	47	51
09/11/2020	7,150	8,230	5,480	6,390	14,560	15,510	5.56	4.95	540,000	540,000	40,549	46,674	2,162	16,874	2,175	16,545	49	46	6,570	6,230	5,020	4,810	10,200	13,040	3.35	3.43	540,000	540,000	60,273	57,154	1,445	16,987	1,822	16,755	46	48
09/12/2020	7,550	7,560	5,910	5,890	14,610	15,170	5.35	5.53	662,400	648,000	42,818	42,874	1,993	16,570	2,086	16,855	53	46	6,080	5,650	4,760	4,410	10,630	13,380	3.46	3.43	648,000	648,000	55,778	51,833	1,496	16,876	1,894	16,969	49	53
09/13/2020	7,010	6,990	5,430	5,460	12,340	14,870	6.10	6.04	459,360	465,120	39,755	39,642	1,892	16,833	2,045	16,329	47	47	6,370	5,870	4,980	4,550	13,370	11,460	3.74	3.81	452,160	456,480	58,438	53,851	1,882	16,877	1,627	17,027	47	51
09/14/2020	6,860	6,660	5,420	5,230	14,560	16,970	6.50	6.18	432,000	432,000	38,904	37,770	1,887	16,825	2,239	16,863	50	51	6,350	5,700	5,050	4,460	14,180	14,860	4.07	4.12	432,000	432,000	58,255	52,292	1,968	16,639	2,092	16,879	47	53
09/15/2020	6,510	6,510	5,070	4,930	13,670	16,440	6.73	6.51	576,000	586,080	36,920	36,920	1,960	16,917	2,372	16,944	49	48	6,200	5,700	4,760	4,390	10,960	15,230	4.26	4.32	623,520	633,600	56,879	52,292	1,541	16,857	2,146	16,896	48	51
09/16/2020	7,900	7,570	6,260	5,990	15,780	16,510	3.13	3.26	849,600	853,920	44,802	42,931	2,174	16,771	2,244	16,963	51	53	5,660	6,580	4,380	5,150	12,420	14,370	5.68	5.44	864,000	868,320	51,925	60,365	1,750	16,895	1,996	16,655	53	46
09/17/2020	8,390	7,490	7,540	6,280	14,720	18,250	2.98	3.15	590,400	590,400	47,581	42,477	2,147	16,602	2,455	16,848	48	47	6,350	5,070	4,830	3,200	15,000	14,750	5.40	5.42	590,400	590,400	58,255	46,512	1,169	16,992	2,100	16,819	47	59
09/18/2020	6,590	7,020	5,290	5,570	14,140	19,460	2.72	2.56	590,400	590,400	37,373	39,812	2,135	16,669	2,512	16,896	53	50	6,210	5,150	4,840	4,080	12,250	15,350	4.01	4.50	597,600	597,600	56,971	47,246	1,713	16,770	2,172	16,770	52	58
09/19/2020	7,510	7,110	6,010	6,130	15,160	14,260	5.80	5.60	650,880	666,720	42,591	40,322	2,127	16,822	2,019	16,980	47	53	6,390	5,010	5,660	3,780	15,840	10,130	3.20	3.50	813,600	672,480	58,622	45,962	2,214	16,762	1,434	16,979	50	54
09/20/2020	6,960	6,260	5,860	5,350	12,420	16,260	6.60	6.60	475,200	492,480	39,472	35,502	1,708	16,485	2,295	16,914	50	54	6,970	4,700	5,710	4,170	9,750	13,000	3.80	4.20	504,000	508,320	63,943	43,118	1,343	16,522	1,826	16,842	46	55
09/21/2020	6,680	6,570	5,110	5,010	12,530	14,680	6.79	6.67	684,000	684,000	37,884	37,260	1,758	16,900	2,172	16,831	49	50	6,300	5,270	4,840	4,050	10,560	11,750	3.51	4.08	684,000	684,000	57,796	48,347	1,463	16,609	1,656	16,894	49	47
09/22/2020	7,000	6,950	5,450	5,420	11,690	15,570	5.65	5.57	648,000	648,000	39,698	39,415	1,647	16,894	2,176	16,756	53	49	6,560	5,330	5,090	4,130	11,480	13,570	3.53	3.85	648,000	648,000	60,181	48,897	1,608	16,792	1,894	16,513	50	53
09/23/2020	6,730	6,400	5,330	5,040	10,830	18,240	4.96	4.50	1,008,000	1,008,000	38,167	36,296	1,526	16,898	2,554	16,788	52	53	6,730	5,500	5,240	4,320	12,200	14,530	2.82	2.92	1,008,000	1,008,000	61,741	50,457	1,714	16,846	2,020	16,667	51	55
09/24/2020	6,560	6,020	5,220	4,880	16,990	17,120	5.18	4.92	648,000	648,000	37,203	34,141	1,806	16,710	2,715	16,710	53	58	6,420	5,710	5,150	4,640	11,110	9,970	2.08	2.03	648,000	648,000	58,897	52,384	2,233	16,592	1,936	16,856	50	51
09/25/2020	5,920	5,870	4,720	4,720	11,830	16,550	5.39	4.82	936,000	936,000	33,574	33,290	1,837	16,843	2,591	16,957	52	51	6,090	5,170	4,820	4,150	8,250	14,090	3.21	3.07	936,000	936,000	55,870	47,430	1,160	16,853	1,997	16,995	49	52
09/26/2020	7,420	7,640	5,980	6,170	13,790	17,420	4.59	4.40	597,600	600,480	42,080	43,328	1,919	16,689	2,462	16,949	50	52	5,980	5,380	4,780	4,280	12,860	12,540	3.66	3.89	597,600	596,160	54,861	49,356	1,867	16,654	1,784	16,827	50	48
09/27/2020	7,430	7,370	5,990	5,910	14,160	17,490	5.39	4.81	447,840	440,640	42,137	41,797	1,955	16,775	2,441	16,770	50	50	5,500	5,230	4,320	4,150	10,080	11,750	4.16	4.38	440,640	447,840	50,457	47,980	1,412	16,800	1,655	16,893	47	44
09/28/2020	7,040	7,410			13,460	16,520	5.02	4.45	757,440	763,200	39,925	42,024	1,889	16,827	2,319	16,835	47	41	4,710	4,910			12,900	16,260	3.72	3.96	754,560	750,240	43,210	45,044	1,589	16,581	1,913	16,376	45	51
09/29/2020	8,650	8,190	6,960	6,480	14,600	17,030	4.13	3.34	561,600	561,600	49,056	46,447	2,001	15,981	2,388	16,301	52	55	5,230	4,840	4,210	3,960	5,670	11,720	3.87	4.08	561,600	561,600	47,980	44,402	784	16,577	1,656	16,939	48	52
09/30/2020	7,420	7,570	6,000	6,090	15,210	15,970	1.51	1.02	2,651,040	2,665,440	42,080	42,931	2,136	16,840	2,254	16,921	61	59	5,730	5,360	4,560	4,240	17,690	11,130	1.56	1.13	3,149,280	3,267,360	52,567	49,173	2,292	16,966	1,568	16,454	44	47
MMAVG																																				
Min.	5,920	5,800	4,720	4,190	10,830	13,930	2	1	432,000	432,000	33,574	32,893	1,526	14,403	1,871	14,345	41	41	4,710	4,700	4,210	3,200	5,670	9,970	2	1	432,000	432,000	43,210	43,118	784	16,522	1,434	16,376	44	44
Max.	8,650	8,230	7,540	6,480	17,100	19,460	7	7	2,651,040	2,665,440	49,056	46,674	2,383	17,098	2,715	16,980	61	59	6,970	6,580	5,710	5,160	17,690	16,260	6	5	3,149,280	3,267,360	63,943	60,365	2,313	17,014	2,357	17,027	61	59
Total									22,550,400	22,476,960	1,231,953	1,206,095	59,166	500,427	68,129	501,224											23,097,600	23,145,120	1,676,091	1,533,801	50,884	504,107	55,975	503,459		
Average	7,241	7,089	5,748	5,595	14,097	16,277	5	5	751,680	749,232	41,065	40,203	1,972	16,681	2,271	16,707	49	49	6,090	5,573	4,848	4,381	12,276	13,173	4	4	769,920	771,504	55,870	51,127	1,696	16,804	1,866	16,782	49	51

APPENDIX D

Quarterly Toxicological Reporting Data for the Easterly Wastewater Treatment Facility

Appendix D: Quarterly Toxicologocal Reporting Data for the Easterly Wastewater Treatment Facility

March of 2015 Toxicological Report

Acute Toxicity	Acute Toxicity	Chronic	Chronic
Ceriodaphnia dubia	Pimephales promelas	Ceriodaphnia dubia	Pimephales promelas
Meets Permit/Protocol	Meets Permit/Protocol	Meets Permit/Protocol	Meets Permit/Protocol

Summary of Reference Toxicant Data

Date	Endpoint		Value	Historic Mean/Central Tendency	Acceptable Range	Reference Toxicant
C. dubia						
2/18/2015	Survival	LC-50	11.7	26.4	5.6-47.1	SDS (mg/L)
2/18/2015	Survival	C-NOEC	7.5a	30	15.0-60.0	Copper (ug/L)
2/18/2015	Reproduction	C-NOEC	7.5a	30	15.0-60.0	Copper (ug/L)
2/18/2015	Reproduction	MSDp	20	32.1	15.1-49.1	Copper (ug/L)
P. promelas						
2/19/2015	Survival	LC-50	25.1	29.8	20.6-38.9	SDS (mg/L)
3/7/2015	Survival	C-NOEC	10	20	10.0-30.0	SDS (mg/L)
3/7/2015	Growth	C-NOEC	10	20	10.0-30.0	SDS (mg/L)
3/7/2015	Growth	MSDp	24.7	32.2	1.3-63.1	SDS (mg/L)

Initial Water Quality and Analytical Data Summary

Parameter	Units	Effluent	Receiving Water	Site-Specific Lab Water
Specific Conductance	umhos/cm	971	341	120
pH	SU	7.37	6.68	7.66
Total Residual Chlorine	mg/L	<0.02	-	-
Alkalinity	mg/L	13	12	30
Hardness	mg/L	97	32	54
Total Solids	mg/L	510	-	-
Total Dissolved Solids	mg/L	615	-	-
Total Organic Carbon	mg/L	8.3	2.8	0.4
Ammonia	mg/L	8.7	0.11	<0.1
Aluminum, total	mg/L	0.049	0.11	<0.02
Cadmium, total	mg/L	<0.0005	<0.0005	<0.0005
Calcium, total	mg/L	19	8.8	9.9
Copper, total	mg/L	0.014	<0.002	<0.002
Lead, total	mg/L	<0.0005	0.001	<0.0005
Magnesium, total	mg/L	10	1.6	6.4
Nickel, total	mg/L	0.003	<0.002	<0.002
Zinc, total	mg/L	0.031	0.014	<0.002

Effluent Start Water

Parameter	Result	Quant Limit	Units
Total Solids	510	10	mg/L
Total Dissolved Solids	615	5	mg/L
Alkalinity as CaCO3	13	2	mg/L
Total Organic Carbon	8.3	0.4	mg/L
Ammonia-N	8.7	0.1	mg/L as N
Hardness as CaCO3	97	0.3	mg/L
Aluminum, total	0.049	0.02	mg/L
Cadmium, total	ND	0.0005	mg/L
Calcium, total	19	0.05	mg/L
Copper, total	0.014	0.002	mg/L
Lead, total	ND	0.0005	mg/L
Magnesium, total	10	0.05	mg/L
Nickel, total	0.003	0.002	mg/L
Zinc, total	0.031	0.002	mg/L

Effluent First Renewal

Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	140	10	mg/L
Ammonia-N	9.4	0.1	mg/L as N
Hardness as CaCO3	110	0.3	mg/L

Effluent Second Renewal

Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	110	10	mg/L
Ammonia-N	12	0.1	mg/L as N
Hardness as CaCO3	99	0.3	mg/L

Receiving Water Start

Alkalinity as CaCO3	12	2	mg/L
Total Organic Carbon	2.8	0.4	mg/L
Ammonia-N	0.11	0.1	mg/L as N
Hardness as CaCO3	32	0.3	mg/L
Aluminum, total	0.11	0.02	mg/L
Cadmium, total	ND	0.0005	mg/L
Calcium, total	8.8	0.05	mg/L
Copper, total	ND	0.002	mg/L
Lead, total	0.001	0.0005	mg/L
Magnesium, total	1.6	0.05	mg/L
Nickel, total	ND	0.002	mg/L
Zinc, total	0.014	0.002	mg/L

Receiving Water First Renewal

Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	15	2	mg/L
Ammonia-N	0.12	0.1	mg/L as N
Hardness as CaCO3	33	0.3	mg/L

Receiving Water Second Renewal

Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	14	2	mg/L
Ammonia-N	0.15	0.1	mg/L as N
Hardness as CaCO3	30	0.3	mg/L

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Alkalinity as CaCO3	30	2	mg/L
Total Organic Carbon	0.4	0.4	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	54	0.3	mg/L
Aluminum, total	ND	0.02	mg/L
Cadmium, total	ND	0.0005	mg/L
Calcium, total	9.9	0.05	mg/L
Chromium, total	ND	0.002	mg/L
Copper, total	ND	0.002	mg/L
Lead, total	ND	0.0005	mg/L
Magnesium, total	6.4	0.05	mg/L
Nickel, total	ND	0.002	mg/L
Selenium, total	0.004	0.002	mg/L
Zinc, total	ND	0.002	mg/L

SSR W-918 03/12/15

Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	21	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	32	0.3	mg/L

SSR W-918 03/14/15

Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	25	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	31	0.3	mg/L

Organism History and Water Chemistry Record

Species	Hatch Date	Age	Food	Temperature (Celsius)	Total Hardness (as CaCO3)	pH
P. promelas	3/8/2015	1 day	Artemia sp.	23	118 mg/L	8.05
	Began Feeding	**Life Stage**		**Salinity Conductivity**	**Total Alkalinity (as CaCO3)**	
	3/9/2015	Larvae		--	85 mg/L	

Appendix D: Quarterly Toxicologocal Reporting Data for the Easterly Wastewater Treatment Facility

June 2015 Toxicological Report			
Acute Toxicity	Acute Toxicity	Chronic	Chronic
Ceriodaphnia dubia	Pimephales promelas	Ceriodaphnia dubia	Pimephales promelas
Meets Permit/Protocol	Meets Permit/Protocol	Meets Permit/Protocol	Meets Permit/Protocol

Summary of Reference Toxicant Data						
Date	Endpoint		Value	Historic Mean/Central Tendency	Acceptable Range	Reference Toxicant
C. dubia						
6/24/2015	Survival	LC-50	18.8	26.5	7.5-45.6	SDS (mg/L)
6/23/2015	Survival	C-NOEC	30	30	15.0-60.0	Copper (ug/L)
6/23/2015	Reproduction	C-NOEC	30	30	15.0-60.0	Copper (ug/L)
6/23/2015	Reproduction	MSDp	31.4	30.8	12.1-49.5	Copper (ug/L)
P. promelas						
6/24/2015	Survival	LC-50	33.2	30.7	21.9-39.6	SDS (mg/L)
6/23/2015	Survival	C-NOEC	30	20	10.0-30.0	SDS (mg/L)
6/23/2015	Growth	C-NOEC	30	20	10.0-30.0	SDS (mg/L)
6/23/2015	Growth	MSDp	21.5	31.6	2.2-60.9	SDS (mg/L)

Initial Water Quality and Analytical Data Summary				
Parameter	Units	Effluent	Receiving Water	Site-Specific Lab Water
Specific Conductance	umhos/cm	776	319	112
pH	SU	7.01	6.67	7.6
Total Residual Chlorine	mg/L	<0.02	-	-
Alkalinity	mg/L	26	10	18
Hardness	mg/L	96	37	30
Total Solids	mg/L	460	-	-
Total Dissolved Solids	mg/L	470a	-	-
Total Organic Carbon	mg/L	8.9	4.3	1.6
Ammonia	mg/L	0.13	0.22	0.12
Aluminum, total	mg/L	0.073	0.23	<0.02
Cadmium, total	mg/L	<0.0005	<0.0005	<0.0005
Calcium, total	mg/L	20	11	5.6
Copper, total	mg/L	0.014	0.005	0.004
Lead, total	mg/L	0.003	0.003	<0.0005
Magnesium, total	mg/L	11	1.7	3.7
Nickel, total	mg/L	0.004	<0.002	<0.002
Zinc, total	mg/L	0.045	0.032	0.004

Effluent Start Water			
Parameter	Result	Quant Limit	Units
Total Solids	460	10	mg/L
Total Dissolved Solids	470 R1	5	mg/L
Alkalinity as CaCO3	26	2	mg/L
Total Organic Carbon	8.9	0.4	mg/L
Ammonia-N	0.13	0.1	mg/L as N
Hardness as CaCO3	96	0.3	mg/L
Aluminum, total	0.073	0.02	mg/L
Cadmium, total	ND	0.0005	mg/L
Calcium, total	20	0.05	mg/L
Copper, total	0.014	0.002	mg/L
Lead, total	0.003	0.0005	mg/L
Magnesium, total	11	0.05	mg/L
Nickel, total	0.004	0.002	mg/L
Zinc, total	0.045	0.002	mg/L

Effluent First Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	49	2	mg/L
Ammonia-N	0.17	0.1	mg/L as N
Hardness as CaCO3	92	0.3	mg/L

Effluent Second Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	51	2	mg/L
Ammonia-N	0.28	0.1	mg/L as N
Hardness as CaCO3	96	0.3	mg/L

Receiving Water Start			
Alkalinity as CaCO3	10	2	mg/L
Total Organic Carbon	4.3	0.4	mg/L
Ammonia-N	0.22	0.1	mg/L as N
Hardness as CaCO3	37	0.3	mg/L
Aluminum, total	0.23	0.02	mg/L
Cadmium, total	ND	0.0005	mg/L
Calcium, total	11	0.05	mg/L
Copper, total	0.005	0.002	mg/L
Lead, total	0.003	0.0005	mg/L
Magnesium, total	1.7	0.05	mg/L
Nickel, total	ND	0.002	mg/L
Zinc, total	0.032	0.002	mg/L

Receiving Water First Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	18	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	35	0.3	mg/L

Receiving Water Second Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	11	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	41	0.3	mg/L

SSR W-935 06/16/15			
Alkalinity as CaCO3	18	2	mg/L
Total Organic Carbon	1.6	0.4	mg/L
Ammonia-N	0.12	0.1	mg/L as N
Hardness as CaCO3	30	0.3	mg/L
Aluminum, total	ND	0.02	mg/L
Cadmium, total	ND	0.0005	mg/L
Calcium, total	5.6	0.05	mg/L
Chromium, total	ND	0.002	mg/L
Copper, total	0.004	0.002	mg/L
Lead, total	ND	0.0005	mg/L
Magnesium, total	3.7	0.05	mg/L
Nickel, total	ND	0.002	mg/L
Selenium, total	0.003	0.002	mg/L
Zinc, total	0.004	0.002	mg/L

SSR W-935 06/18/15			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	17	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	30	0.3	mg/L

SSR W-935 06/20/15			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	20	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	31	0.3	mg/L

Organism History and Water Chemistry Record						
Species	Hatch Date	Age	Food	Temperature (Celsius)	Total Hardness (as CaCO3)	pH
P. promelas	6/14/2015	1 day	Artemia sp.	23	125 mg/L	7.59
	Began Feeding	Life Stage		Salinity Conductivity	Total Alkalinity (as CaCO3)	
	6/15/2015	Larvae		--	95 mg/L	

Appendix D: Quarterly Toxicologocal Reporting Data for the Easterly Wastewater Treatment Facility

September 2015 Toxicological Report			
Acute Toxicity	Acute Toxicity	Chronic	Chronic
Ceriodaphnia dubia	Pimephales promelas	Ceriodaphnia dubia	Pimephales promelas
Meets Permit/Protocol	Meets Permit/Protocol	Meets Permit/Protocol	Meets Permit/Protocol

Summary of Reference Toxicant Data						
Date	Endpoint		Value	Historic Mean/Central Tendency	Acceptable Range	Reference Toxicant
C. dubia						
8/26/2015	Survival	LC-50	16.5	26	7.0-45.0	SDS (mg/L)
8/25/2015	Survival	C-NOEC	30	30	15.0-60.0	Copper (ug/L)
8/25/2015	Reproduction	C-NOEC	30	30	15.0-60.0	Copper (ug/L)
8/25/2015	Reproduction	MSDp	20.5	30.5	12.0-49.0	Copper (ug/L)
P. promelas						
9/29/2015	Survival	LC-50	32.7	31.5	22.7-40.2	SDS (mg/L)
9/29/2015	Survival	C-NOEC	20	20	10.0-30.0	SDS (mg/L)
9/29/2015	Growth	C-NOEC	10	20	10.0-30.0	SDS (mg/L)
9/29/2015	Growth	MSDp	25.2	30.7	2.0-59.3	SDS (mg/L)

Initial Water Quality and Analytical Data Summary				
Parameter	Units	Effluent	Receiving Water	Site-Specific Lab Water
Specific Conductance	umhos/cm	785	251	118
pH	SU	6.98	6.8	7.7
Total Residual Chlorine	mg/L	<0.02	-	-
Alkalinity	mg/L	59	20	23
Hardness	mg/L	100	31	32
Total Solids	mg/L	510	-	-
Total Dissolved Solids	mg/L	500	-	-
Total Organic Carbon	mg/L	8.2	3.4	0.9
Ammonia	mg/L	0.55	<0.1	<0.1
Aluminum, total	mg/L	0.061	0.26	<0.02
Cadmium, total	mg/L	<0.0005	<0.0005	<0.0005
Calcium, total	mg/L	21	9.6	6.4
Copper, total	mg/L	0.019	0.005	<0.002
Lead, total	mg/L	0.0008	0.007	<0.0005
Magnesium, total	mg/L	11	1.4	3.5
Nickel, total	mg/L	0.004	<0.002	<0.002
Zinc, total	mg/L	0.037	0.02	<0.002

Effluent Start Water			
Parameter	Result	Quant Limit	Units
Total Solids	510	10	mg/L
Total Dissolved Solids	500	5	mg/L
Alkalinity as CaCO3	59	2	mg/L
Total Organic Carbon	8.2	0.4	mg/L
Ammonia-N	0.55	0.1	mg/L as N
Hardness as CaCO3	100	0.3	mg/L
Aluminum, total	0.061	0.02	mg/L
Cadmium, total	ND	0.0005	mg/L
Calcium, total	21	0.05	mg/L
Copper, total	0.019	0.002	mg/L
Lead, total	0.0008	0.0005	mg/L
Magnesium, total	11	0.05	mg/L
Nickel, total	0.004	0.002	mg/L
Zinc, total	0.037	0.002	mg/L

Effluent First Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	67	2	mg/L
Ammonia-N	0.16	0.1	mg/L as N
Hardness as CaCO3	97	0.3	mg/L

Effluent Second Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	88	2	mg/L
Ammonia-N	0.29	0.1	mg/L as N
Hardness as CaCO3	98	0.3	mg/L

Receiving Water Start			
Alkalinity as CaCO3	20	2	mg/L
Total Organic Carbon	3.4	0.4	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	31	0.3	mg/L
Aluminum, total	0.26	0.02	mg/L
Cadmium, total	ND	0.0005	mg/L
Calcium, total	9.6	0.05	mg/L
Copper, total	0.005	0.002	mg/L
Lead, total	0.007	0.0005	mg/L
Magnesium, total	1.4	0.05	mg/L
Nickel, total	ND	0.002	mg/L
Zinc, total	0.02	0.002	mg/L

Receiving Water First Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	17	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	44	0.3	mg/L

Receiving Water Second Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	30	2	mg/L
Ammonia-N	0.18	0.1	mg/L as N
Hardness as CaCO3	41	0.3	mg/L

SSR W-961 09/15/15			
Total solids	68	10	mg/L
Total suspended solids	ND	1	mg/L
Total dissolved solids	80	5	mg/L
Alkalinity as CaCO3	18	2	mg/L
Total Organic Carbon	1.6	0.4	mg/L
Ammonia-N	0.12	0.1	mg/L as N
Hardness as CaCO3	30	0.3	mg/L
Aluminum, total	ND	0.02	mg/L
Cadmium, total	ND	0.0005	mg/L
Calcium, total	5.6	0.05	mg/L
Chromium, total	ND	0.002	mg/L
Copper, total	0.004	0.002	mg/L
Lead, total	ND	0.0005	mg/L
Magnesium, total	3.7	0.05	mg/L
Nickel, total	ND	0.002	mg/L
Selenium, total	0.003	0.002	mg/L
Zinc, total	0.004	0.002	mg/L

SSR W-961 09/17/15			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	24	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	32	0.3	mg/L

SSR W-961 09/19/15			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	24	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	32	0.3	mg/L

Organism History and Water Chemistry Record						
Species	Hatch Date	Age	Food	Temperature (Celsius)	Total Hardness (as CaCO3)	pH
P. promelas	9/13/2015	1 day	Artemia sp.	25	125 mg/L	7.61
	Began Feeding	Life Stage		Salinity Conductivity	Total Alkalinity (as CaCO3)	
	9/14/2015	Larvae		--	100 mg/L	

Appendix D: Quarterly Toxicologocal Reporting Data for the Easterly Wastewater Treatment Facility

December 2015 and January 2016 Toxicological Report			
Acute Toxicity	Acute Toxicity	Chronic	Chronic
Ceriodaphnia dubia	Pimephales promelas	Ceriodaphnia dubia	Pimephales promelas
Meets Permit/Protocol	Meets Permit/Protocol	Meets Permit/Protocol	Meets Permit/Protocol

Summary of Reference Toxicant Data						
Date	Endpoint		Value	Historic Mean/Central Tendency	Acceptable Range	Reference Toxicant
C. dubia						
12/2/2015	Survival	LC-50	17.1	22.9	3.2-42.7	SDS (mg/L)
12/1/2015	Survival	C-NOEC	30	30	15.0-60.0	Copper (ug/L)
12/1/2015	Reproduction	C-NOEC	15	15	7.5-30.0	Copper (ug/L)
12/1/2015	Reproduction	MSDp	33.4	32	12.7-51.2	Copper (ug/L)
P. promelas						
12/2/2015	Survival	LC-50	34.7	31.1	21.8-40.5	SDS (mg/L)
12/1/2015	Survival	C-NOEC	20	20	10.0-30.0	SDS (mg/L)
12/1/2015	Growth	C-NOEC	20	10	5.0-20.0	SDS (mg/L)
12/1/2015	Growth	MSDp	18.9	29.8	1.6-58.0	SDS (mg/L)

Initial Water Quality and Analytical Data Summary C. dubia. January 2016			
Parameter	Units	Effluent	Receiving Water
Specific Conductance	umhos/cm	652	199
pH	SU	6.91	6.76
Total Residual Chlorine	mg/L	<0.02	-
Alkalinity	mg/L	69	7
Hardness	mg/L	85	21
Total Solids	mg/L	500	-
Total Dissolved Solids	mg/L	280	-
Total Organic Carbon	mg/L	17	5.9
Ammonia	mg/L	2.4	<0.1
Aluminum, total	mg/L	1.3	0.24
Cadmium, total	mg/L	<0.0005	<0.0005
Calcium, total	mg/L	19	6
Copper, total	mg/L	0.072	0.002
Lead, total	mg/L	0.01	0.002
Magnesium, total	mg/L	8.3	1.2
Nickel, total	mg/L	0.009	<0.002
Zinc, total	mg/L	0.13	0.016

Initial Water Quality and Analytical Data Summary P. promelas. December 2015				
Parameter	Units	Effluent	Receiving Water	Site-Specific Lab Water
Specific Conductance	umhos/cm	755	346	136
pH	SU	7.12	6.7	7.53
Total Residual Chlorine	mg/L	<0.02	-	-
Alkalinity	mg/L	79	18	20
Hardness	mg/L	93	40	33
Total Solids	mg/L	450	-	-
Total Dissolved Solids	mg/L	580	-	-
Total Organic Carbon	mg/L	9.3	3.8	1.3
Ammonia	mg/L	0.1	<0.1	<0.1
Aluminum, total	mg/L	0.049	0.27	<0.02
Cadmium, total	mg/L	<0.0005	<0.0005	<0.0005
Calcium, total	mg/L	19	12	6.4
Copper, total	mg/L	0.018	<0.002	<0.002
Lead, total	mg/L	<0.0005	0.0005	<0.0005
Magnesium, total	mg/L	9.7	1.9	3.8
Nickel, total	mg/L	0.004	<0.002	<0.002
Zinc, total	mg/L	0.043	0.009	0.005

Effluent Start Water 2016			
Parameter	Result	Quant Limit	Units
Total Solids	500	10	mg/L
Total Dissolved Solids	280	5	mg/L
Alkalinity as CaCO3	69	2	mg/L
Total Organic Carbon	17	0.4	mg/L
Ammonia-N	2.4	0.1	mg/L as N
Hardness as CaCO3	85	0.3	mg/L
Aluminum, total	1.3	0.02	mg/L
Cadmium, total	ND	0.0005	mg/L
Calcium, total	19	0.05	mg/L
Copper, total	0.072	0.002	mg/L
Lead, total	0.01	0.0005	mg/L
Magnesium, total	8.3	0.05	mg/L
Nickel, total	0.009	0.002	mg/L
Zinc, total	0.13	0.002	mg/L

Effluent First Renewal 2016			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	75	2	mg/L
Ammonia-N	0.15	0.1	mg/L as N
Hardness as CaCO3	110	0.3	mg/L

Effluent Second Renewal 2016			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	66	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	110	0.3	mg/L

Receiving Water Start 2016			
Alkalinity as CaCO3	7	2	mg/L
Total Organic Carbon	5.9	0.4	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	21	0.3	mg/L
Aluminum, total	0.24	0.02	mg/L
Cadmium, total	ND	0.0005	mg/L
Calcium, total	6	0.05	mg/L
Copper, total	0.002	0.002	mg/L
Lead, total	0.002	0.0005	mg/L
Magnesium, total	1.2	0.05	mg/L
Nickel, total	ND	0.002	mg/L
Zinc, total	0.016	0.002	mg/L

Receiving Water First Renewal 2016			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	12	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	26	0.3	mg/L

Receiving Water Second Renewal 2016			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	9.3	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	33	0.3	mg/L

Effluent Start Water 2015			
Parameter	Result	Quant Limit	Units
Total Solids	450	10	mg/L
Total Dissolved Solids	580	5	mg/L
Alkalinity as CaCO3	79	2	mg/L
Total Organic Carbon	9.3	0.4	mg/L
Ammonia-N	0.1	0.1	mg/L as N
Hardness as CaCO3	93	0.3	mg/L
Aluminum, total	0.049	0.02	mg/L
Cadmium, total	ND	0.0005	mg/L
Calcium, total	19	0.05	mg/L
Copper, total	0.018	0.002	mg/L
Lead, total	ND	0.0005	mg/L
Magnesium, total	9.7	0.05	mg/L
Nickel, total	0.004	0.002	mg/L
Zinc, total	0.043	0.002	mg/L

December and January 2016 Toxicological Report Effluent First Renewal 2015			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	43	2	mg/L
Ammonia-N	0.1	0.1	mg/L as N
Hardness as CaCO3	81	0.3	mg/L

Effluent Second Renewal 2015			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	47	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	89	0.3	mg/L

Receiving Water Start 2015			
Alkalinity as CaCO3	18	2	mg/L
Total Organic Carbon	3.8	0.4	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	40	0.3	mg/L
Aluminum, total	0.027	0.02	mg/L
Cadmium, total	ND	0.0005	mg/L
Calcium, total	12	0.05	mg/L
Copper, total	ND	0.002	mg/L
Lead, total	0.0005	0.0005	mg/L
Magnesium, total	1.9	0.05	mg/L
Nickel, total	ND	0.002	mg/L
Zinc, total	0.009	0.002	mg/L

Receiving Water First Renewal 2015			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	15	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	33	0.3	mg/L

Receiving Water Second Renewal 2015			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	14	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	29	0.3	mg/L

SSR W-982 12/15/15			
Total solids	120	10	mg/L
Total suspended solids	ND	1	mg/L
Total dissolved solids	160 J6	5	mg/L
Alkalinity as CaCO3	20	2	mg/L
Total Organic Carbon	1.3	0.4	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	33	0.3	mg/L
Aluminum, total	ND	0.02	mg/L
Cadmium, total	ND	0.0005	mg/L
Calcium, total	6.4	0.05	mg/L
Chromium, total	ND	0.002	mg/L
Copper, total	ND	0.002	mg/L
Iron, total	ND	0.01	mg/L
Lead, total	ND	0.0005	mg/L
Magnesium, total	3.8	0.05	mg/L
Nickel, total	ND	0.002	mg/L
Selenium, total	0.004	0.002	mg/L
Zinc, total	0.005	0.002	mg/L

SSR W-982 12/17/15			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	19	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	33	0.3	mg/L

SSR W-982 12/19/15			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	20	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	35	0.3	mg/L

Organism History and Water Chemistry Record						
Species	Hatch Date	Age	Food	Temperature (Celsius)	Total Hardness (as CaCO3)	pH
P. promelas	12/13/2015	1 day	Artemia sp.	22	120 mg/L	7.2
	Began Feeding	Life Stage		Salinity Conductivity	Total Alkalinity (as CaCO3)	
	12/14/2015	Larvae		--	80 mg/L	

Appendix D: Quarterly Toxicologocal Reporting Data for the Easterly Wastewater Treatment Facility

March 2016 Toxicological Report			
Acute Toxicity	Acute Toxicity	Chronic	Chronic
Ceriodaphnia dubia	Pimephales promelas	Ceriodaphnia dubia	Pimephales promelas
Meets Permit/Protocol	Meets Permit/Protocol	Meets Permit/Protocol	Meets Permit/Protocol

Summary of Reference Toxicant Data						
Date	Endpoint		Value	Historic Mean/Central Tendency	Acceptable Range	Reference Toxicant
C. dubia						
3/23/2016	Survival	LC-50	17.5	20.3	3.8-36.9	SDS (mg/L)
3/23/2016	Survival	C-NOEC	30	30	15.0-60.0	Copper (ug/L)
3/23/2016	Reproduction	C-NOEC	30	15	7.5-30.0	Copper (ug/L)
3/23/2016	Reproduction	MSDp	28.8	31.8	13.3-50.4	Copper (ug/L)
P. promelas						
3/23/2016	Survival	LC-50	32.7	31.7	22.4-41.0	SDS (mg/L)
3/22/2016	Survival	C-NOEC	30	20	10.0-30.0	SDS (mg/L)
3/22/2016	Growth	C-NOEC	30	10	5.0-20.0	SDS (mg/L)
3/22/2016	Growth	MSDp	32.6	29.4	0.8-58.0	SDS (mg/L)

Initial Water Quality and Analytical Data Summary				
Parameter	Units	Effluent	Receiving Water	Site-Specific Lab Water
Specific Conductance	umhos/cm	806	228	124
pH	SU	6.81	6.71	7.71
Total Residual Chlorine	mg/L	<0.02	-	-
Alkalinity	mg/L	43	9.2	22
Hardness	mg/L	90	24	29
Total Solids	mg/L	520	-	-
Total Dissolved Solids	mg/L	460	-	-
Total Organic Carbon	mg/L	8.4	3.1	1.2
Ammonia	mg/L	<0.1	<0.1	<0.1
Aluminum, total	mg/L	0.034	0.086	<0.02
Cadmium, total	mg/L	<0.0005	<0.0005	<0.0005
Calcium, total	mg/L	21	7	6.4
Copper, total	mg/L	0.011	<0.002	<0.002
Lead, total	mg/L	<0.0005	0.0008	<0.0005
Magnesium, total	mg/L	6.8	1.2	3.7
Nickel, total	mg/L	0.004	<0.002	<0.002
Zinc, total	mg/L	0.039	0.011	0.003

Effluent Start Water			
Parameter	Result	Quant Limit	Units
Total Solids	520	10	mg/L
Total Dissolved Solids	460	10	mg/L
Alkalinity as CaCO3	43	2	mg/L
Total Organic Carbon	8.4	0.4	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	90	0.3	mg/L
Aluminum, total	0.034	0.02	mg/L
Cadmium, total	ND	0.0005	mg/L
Calcium, total	21	0.05	mg/L
Copper, total	0.011	0.002	mg/L
Lead, total	ND	0.0005	mg/L
Magnesium, total	6.8	0.05	mg/L
Nickel, total	0.004	0.002	mg/L
Zinc, total	0.039	0.002	mg/L

Effluent First Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	42	2	mg/L
Ammonia-N	0.28	0.1	mg/L as N
Hardness as CaCO3	71	0.3	mg/L

Effluent Second Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	53	2	mg/L
Ammonia-N	0.12	0.1	mg/L as N
Hardness as CaCO3	77	0.3	mg/L

Receiving Water Start			
Alkalinity as CaCO3	9.2	2	mg/L
Total Organic Carbon	3.1	0.4	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	24	0.3	mg/L
Aluminum, total	0.086	0.02	mg/L
Cadmium, total	ND	0.0005	mg/L
Calcium, total	7	0.05	mg/L
Copper, total	ND	0.002	mg/L
Lead, total	0.0008	0.0005	mg/L
Magnesium, total	1.2	0.05	mg/L
Nickel, total	ND	0.002	mg/L
Zinc, total	0.011	0.002	mg/L

Receiving Water First Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	6.7	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	16	0.3	mg/L

Receiving Water Second Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	7.1	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	17	0.3	mg/L

SSR W-1004 03/15/16			
Total solids	120	10	mg/L
Total suspended solids	ND	1	mg/L
Total dissolved solids	120	5	mg/L
Alkalinity as CaCO3	22	2	mg/L
Total Organic Carbon	1.6	0.4	mg/L
Ammonia-N	0.12	0.1	mg/L as N
Hardness as CaCO3	30	0.3	mg/L
Aluminum, total	ND	0.02	mg/L
Cadmium, total	ND	0.0005	mg/L
Calcium, total	5.6	0.05	mg/L
Chromium, total	ND	0.002	mg/L
Copper, total	0.004	0.002	mg/L
Lead, total	ND	0.0005	mg/L
Magnesium, total	3.7	0.05	mg/L
Nickel, total	ND	0.002	mg/L
Selenium, total	0.003	0.002	mg/L
Zinc, total	0.004	0.002	mg/L

SSR W-1004 03/17/16			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	24	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	32	0.3	mg/L

SSR W-1004 03/19/16			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	24	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	32	0.3	mg/L

Organism History and Water Chemistry Record						
Species	Hatch Date	Age	Food	Temperature (Celsius)	Total Hardness (as CaCO3)	pH
P. promelas	3/13/2016	1 day	Artemia sp.	24	116 mg/L	8
	Began Feeding	Life Stage		Salinity Conductivity	Total Alkalinity (as CaCO3)	
	3/14/2016	Larvae		--	90 mg/L	

Appendix D: Quarterly Toxicologocal Reporting Data for the Easterly Wastewater Treatment Facility

June 2016 Toxicological Report			
Acute Toxicity	Acute Toxicity	Chronic	Chronic
Ceriodaphnia dubia	Pimephales promelas	Ceriodaphnia dubia	Pimephales promelas
Meets Permit/Protocol	Meets Permit/Protocol	Meets Permit/Protocol	Meets Permit/Protocol

Summary of Reference Toxicant Data						
Date	Endpoint		Value	Historic Mean/Central Tendency	Acceptable Range	Reference Toxicant
C. dubia						
5/18/2016	Survival	LC-50	40.7	21.8	2.4-41.22	SDS (mg/L)
5/18/2016	Survival	C-NOEC	30	30	15.0-60.0	Copper (ug/L)
5/18/2016	Reproduction	C-NOEC	30	15	7.5-30.0	Copper (ug/L)
5/18/2016	Reproduction	MSDp	15.1	31.6	12.6-50.7	Copper (ug/L)
P. promelas						
5/18/2016	Survival	LC-50	36.2	32.2	23.0-41.3	SDS (mg/L)
6/2/2016	Survival	C-NOEC	20	20	10.0-30.0	SDS (mg/L)
6/2/2016	Growth	C-NOEC	20	10	5.0-20.0	SDS (mg/L)
6/2/2016	Growth	MSDp	32.9	29.3	1.2-57.3	SDS (mg/L)

Initial Water Quality and Analytical Data Summary				
Parameter	Units	Effluent	Receiving Water	Site-Specific Lab Water
Specific Conductance	umhos/cm	886	332	114
pH	SU	6.78	6.87	7.49
Total Residual Chlorine	mg/L	<0.02	-	-
Alkalinity	mg/L	27	21	23
Hardness	mg/L	99	39	31
Total Solids	mg/L	580	-	-
Total Dissolved Solids	mg/L	570	-	-
Total Organic Carbon	mg/L	9.7	3.2	1.1
Ammonia	mg/L	0.13	<0.1	<0.1
Aluminum, total	mg/L	0.058	0.049	<0.02
Cadmium, total	mg/L	<0.0005	<0.0005	<0.0005
Calcium, total	mg/L	22	12	5.6
Copper, total	mg/L	0.024	0.002	0.0009
Lead, total	mg/L	0.006	0.001	<0.0005
Magnesium, total	mg/L	10	1.9	3.6
Nickel, total	mg/L	0.006	<0.002	<0.002
Zinc, total	mg/L	0.06	0.018	<0.002

Effluent Start Water			
Parameter	Result	Quant Limit	Units
Total Solids	580	10	mg/L
Total Dissolved Solids	570	5	mg/L
Alkalinity as CaCO3	27	2	mg/L
Total Organic Carbon	9.7	0.4	mg/L
Ammonia-N	0.13	0.1	mg/L as N
Hardness as CaCO3	99	0.3	mg/L
Aluminum, total	0.058	0.02	mg/L
Cadmium, total	ND	0.0005	mg/L
Calcium, total	22	0.05	mg/L
Copper, total	0.024	0.002	mg/L
Lead, total	0.0006	0.0005	mg/L
Magnesium, total	10	0.05	mg/L
Nickel, total	0.006	0.002	mg/L
Zinc, total	0.06	0.002	mg/L

Effluent First Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	22	2	mg/L
Ammonia-N	0.12	0.1	mg/L as N
Hardness as CaCO3	95	0.3	mg/L

Effluent Second Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	38	2	mg/L
Ammonia-N	0.17	0.1	mg/L as N
Hardness as CaCO3	94	0.3	mg/L

Receiving Water Start			
Alkalinity as CaCO3	21	2	mg/L
Total Organic Carbon	3.2	0.4	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	39	0.3	mg/L
Aluminum, total	0.049	0.02	mg/L
Cadmium, total	ND	0.0005	mg/L
Calcium, total	12	0.05	mg/L
Copper, total	0.002	0.0005	mg/L
Lead, total	0.001	0.0005	mg/L
Magnesium, total	1.9	0.05	mg/L
Nickel, total	ND	0.002	mg/L
Zinc, total	0.018	0.002	mg/L

Receiving Water First Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	15	2	mg/L
Ammonia-N	0.11	0.1	mg/L as N
Hardness as CaCO3	42	0.3	mg/L

Receiving Water Second Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	24	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	46	0.3	mg/L

SSR W-1023 06/14/16			
Alkalinity as CaCO3	23	2	mg/L
Total Organic Carbon	1.1	0.4	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	31	0.3	mg/L
Aluminum, total	ND	0.02	mg/L
Cadmium, total	ND	0.0005	mg/L
Calcium, total	5.6	0.05	mg/L
Chromium, total	ND	0.002	mg/L
Copper, total	0.0009	0.0005	mg/L
Iron, total	ND	0.01	mg/L
Lead, total	ND	0.0005	mg/L
Magnesium, total	3.6	0.05	mg/L
Nickel, total	ND	0.002	mg/L
Selenium, total	0.003	0.002	mg/L
Zinc, total	ND	0.002	mg/L

SSR W-1023 06/16/16			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	24	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	32	0.3	mg/L

SSR W-1023 06/18/16			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	24	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	32	0.3	mg/L

Organism History and Water Chemistry Record						
Species	Hatch Date	Age	Food	Temperature (Celsius)	Total Hardness (as CaCO3)	pH
P. promelas	6/13/2016		Artemia sp.		120 mg/L	7.4
	Began Feeding	Life Stage		Salinity Conductivity	Total Alkalinity (as CaCO3)	
				--	140 mg/L	

Appendix D: Quarterly Toxicologocal Reporting Data for the Easterly Wastewater Treatment Facility

September 2016 Toxicological Report			
Acute Toxicity	Acute Toxicity	Chronic	Chronic
Ceriodaphnia dubia	Pimephales promelas	Ceriodaphnia dubia	Pimephales promelas
Meets Permit/Protocol	Meets Permit/Protocol	Meets Permit/Protocol	Meets Permit/Protocol

Summary of Reference Toxicant Data						
Date	Endpoint		Value	Historic Mean/Central Tendency	Acceptable Range	Reference Toxicant
C. dubia						
9/27/2016	Survival	LC-50	19.7	22.6	2.4-42.9	SDS (mg/L)
9/27/2016	Survival	C-NOEC	15	30	15.0-60.0	Copper (ug/L)
9/27/2016	Reproduction	C-NOEC	15	30	15.0-60.0	Copper (ug/L)
9/27/2016	Reproduction	MSDp	39	31.7	13.1-50.3	Copper (ug/L)
P. promelas						
8/30/2016	Survival	LC-50	39.4	32.6	24.0-41.1	SDS (mg/L)
9/28/2016	Survival	C-NOEC	20	20	10.0-30.0	SDS (mg/L)
9/28/2016	Growth	C-NOEC	10	10	5.0-20.0	SDS (mg/L)
9/28/2016	Growth	MSDp	27.7	28.6	1.0-56.3	SDS (mg/L)

Initial Water Quality and Analytical Data Summary				
Parameter	Units	Effluent	Receiving Water	Site-Specific Lab Water
Specific Conductance	umhos/cm	936	438	130
pH	SU	7.07	7.21	7.51
Total Residual Chlorine	mg/L	<0.02	-	-
Alkalinity	mg/L	110	31	29
Hardness	mg/L	120	55	36
Total Solids	mg/L	540	-	68
Total Dissolved Solids	mg/L	550	-	67
Total Organic Carbon	mg/L	13.5	2.6	1.3
Ammonia	mg/L	0.31	<0.1	<0.1
Aluminum, total	mg/L	0.083	0.022	<0.02
Cadmium, total	mg/L	<0.0005	<0.0005	<0.0005
Calcium, total	mg/L	22.6	16.7	6.89
Copper, total	mg/L	0.018	0.0018	0.0013
Lead, total	mg/L	0.001	0.0006	<0.0005
Magnesium, total	mg/L	14.3	2.45	4.04
Nickel, total	mg/L	0.007	<0.002	<0.002
Zinc, total	mg/L	0.05	0.01	<0.002

Effluent Start Water			
Parameter	Result	Quant Limit	Units
Total Solids	540	10	mg/L
Total Dissolved Solids	550	10	mg/L
Alkalinity as CaCO3	110	10	mg/L
Total Organic Carbon	13.5	0.4	mg/L
Ammonia-N	0.31	0.1	mg/L as N
Hardness as CaCO3	120	0.3	mg/L
Aluminum, total	0.083	0.02	mg/L
Cadmium, total	ND	0.0005	mg/L
Calcium, total	22.6	0.05	mg/L
Copper, total	0.018	0.0005	mg/L
Lead, total	0.001	0.0005	mg/L
Magnesium, total	14.3	0.05	mg/L
Nickel, total	0.007	0.002	mg/L
Zinc, total	0.05	0.002	mg/L

Effluent First Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	110	10	mg/L
Ammonia-N	0.21	0.1	mg/L as N
Hardness as CaCO3	120	0.3	mg/L

Effluent Second Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	110	10	mg/L
Ammonia-N	0.26	0.1	mg/L as N
Hardness as CaCO3	120	0.3	mg/L

Receiving Water Start			
Alkalinity as CaCO3	31	2	mg/L
Total Organic Carbon	2.6	0.4	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	55	0.3	mg/L
Aluminum, total	0.022	0.02	mg/L
Cadmium, total	ND	0.0005	mg/L
Calcium, total	16.7	0.05	mg/L
Copper, total	0.0018	0.0005	mg/L
Lead, total	0.0006	0.0005	mg/L
Magnesium, total	2.45	0.05	mg/L
Nickel, total	ND	0.002	mg/L
Zinc, total	0.01	0.002	mg/L

Receiving Water First Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	32	2	mg/L
Ammonia-N	0.11	0.1	mg/L as N
Hardness as CaCO3	54	0.3	mg/L

Receiving Water Second Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	8.7	2	mg/L
Ammonia-N	0.11	0.1	mg/L as N
Hardness as CaCO3	55	0.3	mg/L

SSR W-1040 09/13/16			
Total Solids	68	10	mg/L
Total Suspended Solids	ND	1	mg/L
Total Dissolved Solids	67	10	mg/L
Alkalinity as CaCO3	29	2	mg/L
Total Organic Carbon	1.3	0.4	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	36	0.3	mg/L
Aluminum, total	ND	0.02	mg/L
Cadmium, total	ND	0.0005	mg/L
Calcium, total	6.89	0.05	mg/L
Chromium, total	ND	0.002	mg/L
Copper, total	0.0013	0.0005	mg/L
Iron, total	ND	0.01	mg/L
Lead, total	ND	0.0005	mg/L
Magnesium, total	4.04	0.05	mg/L
Nickel, total	ND	0.002	mg/L
Selenium, total	0.003	0.002	mg/L
Zinc, total	ND	0.002	mg/L

SSR W-1040 09/15/16			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	29	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	36	0.3	mg/L

SSR W-1040 09/17/16			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	29	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	36	0.3	mg/L

Organism History and Water Chemistry Record						
Species	Hatch Date	Age	Food	Temperature (Celsius)	Total Hardness (as CaCO3)	pH
P. promelas	9/11/2016	1 day	Artemia sp.	25	118 mg/L	8.11
	Began Feeding	Life Stage		Salinity Conductivity	Total Alkalinity (as CaCO3)	
	9/12/2016	Larvae		--	85 mg/L	

Appendix D: Quarterly Toxicologocal Reporting Data for the Easterly Wastewater Treatment Facility

December 2016 Toxicological Report			
Acute Toxicity	Acute Toxicity	Chronic	Chronic
Ceriodaphnia dubia	Pimephales promelas	Ceriodaphnia dubia	Pimephales promelas
Meets Permit/Protocol	Meets Permit/Protocol	Meets Permit/Protocol	Meets Permit/Protocol

Summary of Reference Toxicant Data						
Date	Endpoint		Value	Historic Mean/Central Tendency	Acceptable Range	Reference Toxicant
C. dubia						
9/27/2016	Survival	LC-50	20.4	20.8	0.7-40.8	SDS (mg/L)
9/27/2016	Survival	C-NOEC	60	30	15.0-60.0	Copper (ug/L)
9/27/2016	Reproduction	C-NOEC	30	30	15.0-60.0	Copper (ug/L)
9/27/2016	Reproduction	MSDp	21.7	31.4	13.2-49.7	Copper (ug/L)
P. promelas						
8/30/2016	Survival	LC-50	25.2	33.9	23.4-44.4	SDS (mg/L)
9/28/2016	Survival	C-NOEC	10	20	10.0-30.0	SDS (mg/L)
9/28/2016	Growth	C-NOEC	10	20	10.0-30.0	SDS (mg/L)
9/28/2016	Growth	MSDp	28.4	28.1	1.2-54.9	SDS (mg/L)

Initial Water Quality and Analytical Data Summary				
Parameter	Units	Effluent	Receiving Water	Site-Specific Lab Water
Specific Conductance	umhos/cm	855	360	128
pH	SU	6.81	6.88	7.3
Total Residual Chlorine	mg/L	<0.02	-	-
Alkalinity	mg/L	45	17	21
Hardness	mg/L	87	39	31
Total Solids	mg/L	450	-	-
Total Dissolved Solids	mg/L	510	-	-
Total Organic Carbon	mg/L	9.7	4.5	1.3
Ammonia	mg/L	<0.1	<0.1	<0.1
Aluminum, total	mg/L	0.062	0.046	<0.01
Cadmium, total	mg/L	<0.0001	0.0001	<0.0001
Calcium, total	mg/L	25.4	11.2	5.93
Copper, total	mg/L	0.014	0.0016	0.0006
Lead, total	mg/L	0.0007	0.0006	<0.0002
Magnesium, total	mg/L	6.06	2.04	3.78
Nickel, total	mg/L	0.0066	<0.001	<0.001
Zinc, total	mg/L	0.06	0.034	<0.002

Effluent Start Water			
Parameter	Result	Quant Limit	Units
Total Solids	450	10	mg/L
Total Dissolved Solids	510	10	mg/L
Alkalinity as CaCO3	45	2	mg/L
Total Organic Carbon	9.7	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	87	0.3	mg/L
Aluminum, total	0.062	0.01	mg/L
Cadmium, total	ND	0.0001	mg/L
Calcium, total	25.4	0.05	mg/L
Copper, total	0.014	0.0005	mg/L
Lead, total	0.0007	0.0002	mg/L
Magnesium, total	6.06	0.05	mg/L
Nickel, total	0.0066	0.001	mg/L
Zinc, total	0.06	0.002	mg/L

Effluent First Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	46	2	mg/L
Ammonia-N	0.14	0.1	mg/L as N
Hardness as CaCO3	86	0.3	mg/L

Effluent Second Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	40	2	mg/L
Ammonia-N	0.1	0.1	mg/L as N
Hardness as CaCO3	91	0.3	mg/L

Receiving Water Start			
Alkalinity as CaCO3	17	2	mg/L
Total Organic Carbon	4.5	1.2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	39	0.3	mg/L
Aluminum, total	0.046	0.02	mg/L
Cadmium, total	0.0001	0.0001	mg/L
Calcium, total	11.2	0.05	mg/L
Copper, total	0.0016	0.0005	mg/L
Lead, total	0.0006	0.0002	mg/L
Magnesium, total	2.04	0.05	mg/L
Nickel, total	ND	0.001	mg/L
Zinc, total	0.034	0.002	mg/L

Receiving Water First Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	17	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	40	0.3	mg/L

Receiving Water Second Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	18	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	44	0.3	mg/L

SSR W-1057 12/13/16			
Alkalinity as CaCO3	21	2	mg/L
Total Organic Carbon	1.3	0.4	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	31	0.3	mg/L
Aluminum, total	ND	0.01	mg/L
Cadmium, total	ND	0.0001	mg/L
Calcium, total	5.93	0.05	mg/L
Chromium, total	ND	0.001	mg/L
Copper, total	0.0006	0.0005	mg/L
Iron, total	0.01	0.01	mg/L
Lead, total	ND	0.0002	mg/L
Magnesium, total	3.78	0.05	mg/L
Nickel, total	ND	0.001	mg/L
Selenium, total	0.0029	0.002	mg/L
Zinc, total	ND	0.002	mg/L

SSR W-1057 12/15/16			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	21	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	32	0.3	mg/L

SSR W-1057 12/17/16			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	21	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	33	0.3	mg/L

Organism History and Water Chemistry Record						
Species	Hatch Date	Age	Food	Temperature (Celsius)	Total Hardness (as CaCO3)	pH
P. promelas	12/11/2016	1 day	Artemia sp.	23	114 mg/L	7.99
	Began Feeding	Life Stage		Salinity Conductivity	Total Alkalinity (as CaCO3)	
	12/12/2016	Larvae		--	90 mg/L	

March 2017 Toxicological Report			
Acute Toxicity	Acute Toxicity	Chronic	Chronic
Ceriodaphnia dubia	Pimephales promelas	Ceriodaphnia dubia	Pimephales promelas
Meets Permit/Protocol	Meets Permit/Protocol	Meets Permit/Protocol	Meets Permit/Protocol

Summary of Reference Toxicant Data						
Date	Endpoint		Value	Historic Mean/Central Tendency	Acceptable Range	Reference Toxicant
C. dubia						
3/29/2016	Survival	LC-50	27.9	22.3	0-45.4	SDS (mg/L)
4/4/2016	Survival	C-NOEC	30	30	15.0-60.0	Copper (ug/L)
4/4/2016	Reproduction	C-NOEC	15	15	7.5-30.0	Copper (ug/L)
4/4/2016	Reproduction	MSDp	30.9	31.4	13.3-49.4	Copper (ug/L)
P. promelas						
3/29/2016	Survival	LC-50	41.6	34.2	23.7-44.8	SDS (mg/L)
3/28/2016	Survival	C-NOEC	10	20	10.0-30.0	SDS (mg/L)
3/28/2016	Growth	C-NOEC	10	20	10.0-30.0	SDS (mg/L)
3/28/2016	Growth	MSDp	41.6	28.4	2.0-54.8	SDS (mg/L)

Initial Water Quality and Analytical Data Summary				
Parameter	Units	Effluent	Receiving Water	Site-Specific Lab Water
Specific Conductance	umhos/cm	1020	344	116
pH	SU	7.13	6.61	7.38
Total Residual Chlorine	mg/L	<0.02	-	-
Alkalinity	mg/L	57	9.8	18
Hardness	mg/L	110	32	32
Total Solids	mg/L	620	-	-
Total Dissolved Solids	mg/L	600	-	-
Total Organic Carbon	mg/L	9.4	3.3	1.6
Ammonia	mg/L	0.32	<0.1	<0.1
Aluminum, total	mg/L	0.049	0.061	<0.02
Cadmium, total	mg/L	<0.0001	0.0001	<0.0001
Calcium, total	mg/L	25.2	9.19	5.16
Copper, total	mg/L	0.012	0.0018	0.001
Lead, total	mg/L	0.0011	0.0004	<0.0002
Magnesium, total	mg/L	9.37	1.69	3.54
Nickel, total	mg/L	0.0046	<0.001	<0.001
Zinc, total	mg/L	0.049	0.017	0.0038

Effluent Start Water			
Parameter	Result	Quant Limit	Units
Total Solids	620	10	mg/L
Total Dissolved Solids	600	10	mg/L
Alkalinity as CaCO3	57	2	mg/L
Total Organic Carbon	9.4	0.8	mg/L
Ammonia-N	0.32	0.1	mg/L as N
Hardness as CaCO3	110	0.3	mg/L
Aluminum, total	0.049	0.02	mg/L
Cadmium, total	ND	0.0001	mg/L
Calcium, total	25.2	0.05	mg/L
Copper, total	0.012	0.0005	mg/L
Lead, total	0.0011	0.0002	mg/L
Magnesium, total	9.37	0.05	mg/L
Nickel, total	0.0046	0.001	mg/L
Zinc, total	0.049	0.002	mg/L

Effluent First Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	76	2	mg/L
Total Organic Carbon	13	0.4	mg/L
Ammonia-N	0.14	0.1	mg/L as N
Hardness as CaCO3	110	0.3	mg/L
Aluminum, total	0.048	0.02	mg/L
Cadmium, total	ND	0.0003	mg/L
Calcium, total	24.7	0.05	mg/L
Copper, total	0.011	0.0005	mg/L
Lead, total	0.0005	0.0003	mg/L
Magnesium, total	8.97	0.05	mg/L
Nickel, total	0.0053	0.001	mg/L
Zinc, total	0.054	0.002	mg/L

Effluent Second Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	47	2	mg/L
Total Organic Carbon	12	0.4	
Ammonia-N	0.3	0.1	mg/L as N
Hardness as CaCO3	110	0.3	mg/L
Aluminum, total	0.034	0.02	mg/L
Cadmium, total	ND	0.0003	mg/L
Calcium, total	25.1	0.05	mg/L
Copper, total	0.0098	0.0005	mg/L
Lead, total	0.0005	0.0003	mg/L
Magnesium, total	9.17	0.05	mg/L
Nickel, total	0.0047	0.001	mg/L
Zinc, total	0.044	0.002	mg/L

Receiving Water Start			
Alkalinity as CaCO3	9.8	2	mg/L
Total Organic Carbon	3.3	0.8	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	32	0.3	mg/L
Aluminum, total	0.061	0.02	mg/L
Cadmium, total	0.0001	0.0001	mg/L
Calcium, total	9.19	0.05	mg/L
Copper, total	0.0018	0.0005	mg/L
Lead, total	0.0004	0.0002	mg/L
Magnesium, total	1.69	0.05	mg/L
Nickel, total	ND	0.001	mg/L
Zinc, total	0.017	0.002	mg/L

Receiving Water First Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	36	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	31	0.3	mg/L

Receiving Water Second Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	16	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	30	0.3	mg/L

SSR W-1070 03/14/17			
Alkalinity as CaCO3	18	2	mg/L
Total Organic Carbon	1.6	0.4	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	32	0.3	mg/L
Aluminum, total	ND	0.02	mg/L
Cadmium, total	ND	0.0001	mg/L
Calcium, total	5.16	0.05	mg/L
Chromium, total	ND	0.001	mg/L
Copper, total	0.001	0.0005	mg/L
Iron, total	ND	0.01	mg/L
Lead, total	ND	0.0002	mg/L
Magnesium, total	3.54	0.05	mg/L
Nickel, total	ND	0.001	mg/L
Selenium, total	0.0027	0.002	mg/L
Zinc, total	0.0038	0.002	mg/L

SSR W-1070 03/17/17			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	20	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	29	0.3	mg/L

SSR W-1070 03/18/17			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	20	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	29	0.3	mg/L

Organism History and Water Chemistry Record						
Species	Hatch Date	Age	Food	Temperature (Celsius)	Total Hardness (as CaCO3)	pH
P. promelas	3/12/2017	1 day	Artemia sp.	23	170 mg/L	8.24
	Began Feeding	Life Stage		Salinity Conductivity	Total Alkalinity (as CaCO3)	
	3/13/2017	Larvae		--	90 mg/L	

Appendix D: Quarterly Toxicologocal Reporting Data for the Easterly Wastewater Treatment Facility

June 2017 Toxicological Report

Acute Toxicity	Acute Toxicity	Chronic	Chronic
Ceriodaphnia dubia	Pimephales promelas	Ceriodaphnia dubia	Pimephales promelas
Meets Permit/Protocol	Meets Permit/Protocol	Meets Permit/Protocol	Meets Permit/Protocol

Summary of Reference Toxicant Data

Date	Endpoint		Value	Historic Mean/Central Tendency	Acceptable Range	Reference Toxicant
C. dubia						
6/21/2017	Survival	LC-50	22.4	24.2	1.7-46.8	SDS (mg/L)
6/21/2017	Survival	C-NOEC	30	30	15.0-60.0	Copper (ug/L)
6/21/2017	Reproduction	C-NOEC	30	15	7.5-30.0	Copper (ug/L)
6/21/2017	Reproduction	MSDp	19.1	31.1	13.3-48.9	Copper (ug/L)
P. promelas						
6/21/2017	Survival	LC-50	41.8	34	22.5-45.4	SDS (mg/L)
6/21/2017	Survival	C-NOEC	30	20	10.0-30.0	SDS (mg/L)
6/21/2017	Growth	C-NOEC	30	20	10.0-30.0	SDS (mg/L)
6/21/2017	Growth	MSDp	35.4	28.6	2.5-54.8	SDS (mg/L)

Initial Water Quality and Analytical Data Summary

Parameter	Units	Effluent	Receiving Water	Site-Specific Lab Water
Specific Conductance	umhos/cm	966	252	107
pH	SU	7.18	6.76	7.64
Total Residual Chlorine	mg/L	<0.02	-	-
Alkalinity	mg/L	71	12	19
Hardness	mg/L	97	97	27
Total Solids	mg/L	530	-	-
Total Dissolved Solids	mg/L	530	-	-
Total Organic Carbon	mg/L	8.7	4.4	0.9
Ammonia	mg/L	<0.1	<0.1	<0.1
Aluminum, total	mg/L	0.028	0.094	<0.02
Cadmium, total	mg/L	<0.0003	<0.0001	<0.0001
Calcium, total	mg/L	26.3	8.49	5.07
Copper, total	mg/L	0.0097	0.0021	0.0009
Lead, total	mg/L	<0.0003	0.0011	<0.0002
Magnesium, total	mg/L	8.22	1.28	3.51
Nickel, total	mg/L	0.0053	<0.001	<0.001
Zinc, total	mg/L	0.038	0.01	0.0031

Effluent Start Water

Parameter	Result	Quant Limit	Units
Total Solids	530	10	mg/L
Total Dissolved Solids	530	10	mg/L
Alkalinity as CaCO3	71	2	mg/L
Total Organic Carbon	8.7	0.8	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	97	0.3	mg/L
Aluminum, total	0.028	0.02	mg/L
Cadmium, total	ND	0.0003	mg/L
Calcium, total	26.3	0.05	mg/L
Copper, total	0.0097	0.0005	mg/L
Lead, total	ND	0.0003	mg/L
Magnesium, total	8.22	0.05	mg/L
Nickel, total	0.0053	0.001	mg/L
Zinc, total	0.038	0.002	mg/L

Effluent First Renewal

Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	67	2	mg/L
Ammonia-N	0.13	0.1	mg/L as N
Hardness as CaCO3	88	0.3	mg/L

Effluent Second Renewal

Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	79	2	mg/L
Ammonia-N	0.22	0.1	mg/L as N
Hardness as CaCO3	97	0.3	mg/L

Receiving Water Start

Alkalinity as CaCO3	12	2	mg/L
Total Organic Carbon	4.4	0.8	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	26	0.3	mg/L
Aluminum, total	0.094	0.02	mg/L
Cadmium, total	ND	0.0001	mg/L
Calcium, total	8.49	0.05	mg/L
Copper, total	0.0021	0.0005	mg/L
Lead, total	0.0011	0.0002	mg/L
Magnesium, total	1.28	0.05	mg/L
Nickel, total	ND	0.001	mg/L
Zinc, total	0.01	0.002	mg/L

Receiving Water First Renewal

Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	15	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	28	0.3	mg/L

Receiving Water Second Renewal

Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	17	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	33	0.3	mg/L

SSR W-1086 06/13/17

Total solids	54	10	mg/L
Total suspended solids	ND	1	mg/L
Total dissolved solids	40	10	mg/L
Alkalinity as CaCO3	19	2	mg/L
Total Organic Carbon	0.9	0.4	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	27	0.3	mg/L
Aluminum, total	ND	0.02	mg/L
Cadmium, total	ND	0.0001	mg/L
Calcium, total	5.07	0.05	mg/L
Chromium, total	ND	0.001	mg/L
Copper, total	0.0009	0.0005	mg/L
Iron, total	ND	0.01	mg/L
Lead, total	ND	0.0002	mg/L
Magnesium, total	3.51	0.05	mg/L
Nickel, total	ND	0.001	mg/L
Selenium, total	0.0035	0.002	mg/L
Zinc, total	0.0031	0.002	mg/L

SSR W-1086 06/15/17

Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	20	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	28	0.3	mg/L

SSR W-1086 06/17/17

Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	20	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	27	0.3	mg/L

Organism History and Water Chemistry Record

Species	Hatch Date	Age	Food	Temperature (Celsius)	Total Hardness (as CaCO3)	pH
P. promelas	6/11/2017	1 day	Artemia sp.	25	128 mg/L	8.3
	Began Feeding	Life Stage		Salinity Conductivity	Total Alkalinity (as CaCO3)	
	6/12/2017	Larvae		--	110 mg/L	

Appendix D: Quarterly Toxicologocal Reporting Data for the Easterly Wastewater Treatment Facility

September 2017 Toxicological Report			
Acute Toxicity	Acute Toxicity	Chronic	Chronic
Ceriodaphnia dubia	Pimephales promelas	Ceriodaphnia dubia	Pimephales promelas
Meets Permit/Protocol	Meets Permit/Protocol	Meets Permit/Protocol	Meets Permit/Protocol

Summary of Reference Toxicant Data					
Date	Endpoint		Value	Historic Mean/Central Tendency	Acceptable Range	Reference Toxicant
C. dubia						
9/26/2017	Survival	LC-50	27.5	25.8	4.0-47.6	SDS (mg/L)
9/26/2017	Survival	C-NOEC	15	30	15.0-60.0	Copper (ug/L)
9/26/2017	Reproduction	C-NOEC	15	15	7.5-30.0	Copper (ug/L)
9/26/2017	Reproduction	MSDp	20.5	30.7	13.0-48.4	Copper (ug/L)
P. promelas						
9/26/2017	Survival	LC-50	36.5	34.9	24.4-45.4	SDS (mg/L)
9/26/2017	Survival	C-NOEC	5	20	10.0-30.0	SDS (mg/L)
9/26/2017	Growth	C-NOEC	5	20	10.0-30.0	SDS (mg/L)
9/26/2017	Growth	MSDp	14	27.9	1.6-54.2	SDS (mg/L)

Initial Water Quality and Analytical Data Summary				
Parameter	Units	Effluent	Receiving Water	Site-Specific Lab Water
Specific Conductance	umhos/cm	1006	304	131
pH	SU	7.33	7.04	7.7
Total Residual Chlorine	mg/L	0	-	-
Alkalinity	mg/L	120	19	21
Hardness	mg/L	150	31	29
Total Solids	mg/L	610	-	-
Total Dissolved Solids	mg/L	640	-	-
Total Organic Carbon	mg/L	12.2	4.6	0.9
Ammonia	mg/L	0.12	<0.1	<0.1
Aluminum, total	mg/L	0.044	0.056	<0.01
Cadmium, total	mg/L	<0.0001	<0.0001	<0.0001
Calcium, total	mg/L	32.5	10.1	5.54
Copper, total	mg/L	0.012	0.002	0.0008
Lead, total	mg/L	0.0005	0.0011	<0.0002
Magnesium, total	mg/L	15.8	1.67	3.68
Nickel, total	mg/L	0.0071	<0.001	<0.001
Zinc, total	mg/L	0.037	0.011	<0.002

Effluent Start Water			
Parameter	Result	Quant Limit	Units
Total Solids	610	10	mg/L
Total Dissolved Solids	640	10	mg/L
Alkalinity as CaCO3	120	2	mg/L
Total Organic Carbon	12.2	0.8	mg/L
Ammonia-N	0.12	0.1	mg/L as N
Hardness as CaCO3	150	0.3	mg/L
Aluminum, total	0.044	0.02	mg/L
Cadmium, total	ND	0.0003	mg/L
Calcium, total	32.5	0.05	mg/L
Copper, total	0.012	0.0005	mg/L
Lead, total	0.0005	0.0003	mg/L
Magnesium, total	15.8	0.05	mg/L
Nickel, total	0.0071	0.001	mg/L
Zinc, total	0.037	0.002	mg/L

Effluent First Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	89	2	mg/L
Ammonia-N	0.22	0.1	mg/L as N
Hardness as CaCO3	120	0.3	mg/L

Effluent Second Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	98	2	mg/L
Ammonia-N	0.9	0.1	mg/L as N
Hardness as CaCO3	110	0.3	mg/L

Receiving Water Start			
Alkalinity as CaCO3	19	2	mg/L
Total Organic Carbon	4.6	0.4	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	31	0.3	mg/L
Aluminum, total	0.056	0.02	mg/L
Cadmium, total	ND	0.0001	mg/L
Calcium, total	10.1	0.05	mg/L
Copper, total	0.002	0.0005	mg/L
Lead, total	0.0011	0.0002	mg/L
Magnesium, total	1.67	0.05	mg/L
Nickel, total	ND	0.001	mg/L
Zinc, total	0.011	0.002	mg/L

Receiving Water First Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	20	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	35	0.3	mg/L

Receiving Water Second Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	21	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	37	0.3	mg/L

SSR W-1103 09/12/17			
Alkalinity as CaCO3	21	2	mg/L
Total Organic Carbon	0.9	0.4	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	29	0.3	mg/L
Aluminum, total	ND	0.01	mg/L
Cadmium, total	ND	0.0001	mg/L
Calcium, total	5.54	0.05	mg/L
Chromium, total	ND	0.001	mg/L
Copper, total	0.0008	0.0005	mg/L
Iron, total	ND	0.01	mg/L
Lead, total	ND	0.0002	mg/L
Magnesium, total	3.68	0.05	mg/L
Nickel, total	ND	0.001	mg/L
Selenium, total	0.003	0.002	mg/L
Zinc, total	ND	0.002	mg/L

SSR W-1103 09/14/17			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	22	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	30	0.3	mg/L

SSR W-1103 09/16/17			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	22	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	30	0.3	mg/L

Organism History and Water Chemistry Record						
Species	Hatch Date	Age	Food	Temperature (Celsius)	Total Hardness (as CaCO3)	pH
P. promelas	9/11/2017	1 day	Artemia sp.	25	116 mg/L	8.3
	Began Feeding	Life Stage		Salinity Conductivity	Total Alkalinity (as CaCO3)	
	9/12/2017	Larvae		--	110 mg/L	

Appendix D: Quarterly Toxicologocal Reporting Data for the Easterly Wastewater Treatment Facility

December 2017 Toxicological Report

Acute Toxicity	Acute Toxicity	Chronic	Chronic
Ceriodaphnia dubia	Pimephales promelas	Ceriodaphnia dubia	Pimephales promelas
Meets Permit/Protocol	Meets Permit/Protocol	Meets Permit/Protocol	Meets Permit/Protocol

Summary of Reference Toxicant Data

Date	Endpoint		Value	Historic Mean/Central Tendency	Acceptable Range	Reference Toxicant
C. dubia						
12/21/2017	Survival	LC-50	27.5	25.8	4.0-47.6	SDS (mg/L)
12/29/2017	Survival	C-NOEC	15	30	15.0-60.0	Copper (ug/L)
12/29/2017	Reproduction	C-NOEC	15	15	7.5-30.0	Copper (ug/L)
12/29/2017	Reproduction	MSDp	20.5	30.7	13.0-48.4	Copper (ug/L)
P. promelas						
12/21/2017	Survival	LC-50	36.5	34.9	24.4-45.4	SDS (mg/L)
12/28/2017	Survival	C-NOEC	5	20	10.0-30.0	SDS (mg/L)
12/28/2017	Growth	C-NOEC	5	20	10.0-30.0	SDS (mg/L)
12/28/2017	Growth	MSDp	14	27.9	1.6-54.2	SDS (mg/L)

Initial Water Quality and Analytical Data Summary

Parameter	Units	Effluent	Receiving Water	Site-Specific Lab Water
Specific Conductance	umhos/cm	1116	265	115
pH	SU	6.93	6.43	7.42
Total Residual Chlorine	mg/L	<0.02	-	-
Alkalinity	mg/L	68	12	22
Hardness	mg/L	100	25	29
Total Solids	mg/L	720	-	-
Total Dissolved Solids	mg/L	720	-	-
Total Organic Carbon	mg/L	14.5	5	1.2
Ammonia	mg/L	<0.1	<0.1	<0.1
Aluminum, total	mg/L	0.055	0.096	<0.02
Cadmium, total	mg/L	<0.0003	0.0002	<0.0001
Calcium, total	mg/L	25.6	7.75	6.06
Copper, total	mg/L	0.021	0.0028	0.0007
Lead, total	mg/L	0.0007	0.001	<0.0002
Magnesium, total	mg/L	9.26	1.43	3.47
Nickel, total	mg/L	0.009	0.0013	<0.001
Zinc, total	mg/L	0.056	0.066	0.0032

Effluent Start Water

Parameter	Result	Quant Limit	Units
Total Solids	720	100	mg/L
Total Dissolved Solids	720	5	mg/L
Alkalinity as CaCO3	68	2	mg/L
Total Organic Carbon	14.5	0.4	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	100	0.3	mg/L
Aluminum, total	0.055	0.02	mg/L
Cadmium, total	ND	0.0003	mg/L
Calcium, total	25.6	0.05	mg/L
Copper, total	0.021	0.0005	mg/L
Lead, total	0.0007	0.0003	mg/L
Magnesium, total	9.26	0.05	mg/L
Nickel, total	0.009	0.001	mg/L
Zinc, total	0.056	0.002	mg/L

Effluent First Renewal

Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	60	2	mg/L
Ammonia-N	0.18	0.1	mg/L as N
Hardness as CaCO3	110	0.3	mg/L

Effluent Second Renewal

Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	65	2	mg/L
Ammonia-N	1.8	0.1	mg/L as N
Hardness as CaCO3	100	0.3	mg/L

Receiving Water Start

Alkalinity as CaCO3	12	2	mg/L
Total Organic Carbon	5	0.4	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	25	0.3	mg/L
Aluminum, total	0.096	0.02	mg/L
Cadmium, total	0.0002	0.0001	mg/L
Calcium, total	7.75	0.05	mg/L
Copper, total	0.0028	0.0005	mg/L
Lead, total	0.001	0.0002	mg/L
Magnesium, total	1.43	0.05	mg/L
Nickel, total	0.0013	0.001	mg/L
Zinc, total	0.066	0.002	mg/L

Receiving Water First Renewal

Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	ND	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	27	0.3	mg/L

Receiving Water Second Renewal

Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	13	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	30	0.3	mg/L

SSR W-1116 12/12/17

Alkalinity as CaCO3	22	2	mg/L
Total Organic Carbon	1.2	0.4	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	29	0.3	mg/L
Aluminum, total	ND	0.02	mg/L
Cadmium, total	ND	0.0001	mg/L
Calcium, total	6.06	0.05	mg/L
Chromium, total	ND	0.001	mg/L
Copper, total	0.0007	0.0005	mg/L
Iron, total	ND	0.01	mg/L
Lead, total	ND	0.0002	mg/L
Magnesium, total	3.47	0.05	mg/L
Nickel, total	ND	0.001	mg/L
Selenium, total	0.003	0.002	mg/L
Zinc, total	0.0032	0.002	mg/L

SSR W-1116 12/14/17

Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	22	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	29	0.3	mg/L

SSR W-1116 12/16/17

Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	22	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	33	0.3	mg/L

Organism History and Water Chemistry Record

Species	Hatch Date	Age	Food	Temperature (Celsius)	Total Hardness (as CaCO3)	pH
P. promelas	12/10/2017	1 day	Artemia sp.	23	118 mg/L	8.28
	Began Feeding	Life Stage		Salinity Conductivity	Total Alkalinity (as CaCO3)	
	12/12/2017	Larvae		--	95 mg/L	

March 2018 Toxicological Report			
Acute Toxicity	Acute Toxicity	Chronic	Chronic
Ceriodaphnia dubia	Pimephales promelas	Ceriodaphnia dubia	Pimephales promelas
Meets Permit/Protocol	Meets Permit/Protocol	Meets Permit/Protocol	Meets Permit/Protocol

Summary of Reference Toxicant Data						
Date	Endpoint		Value	Historic Mean/Central Tendency	Acceptable Range	Reference Toxicant
C. dubia						
3/6/2018	Survival	LC-50	13.4	23	2.6-43.4	SDS (mg/L)
3/6/2018	Survival	C-NOEC	60	60	30-120	Copper (ug/L)
3/6/2018	Reproduction	C-NOEC	30	30	15-60	Copper (ug/L)
3/6/2018	Reproduction	MSDp	26.3	30.5	13.3-47.8	Copper (ug/L)
P. promelas						
3/6/2018	Survival	LC-50	34.7	35.5	23.8-47.1	SDS (mg/L)
3/6/2018	Survival	C-NOEC	5	10	5.0-20.0	SDS (mg/L)
3/6/2018	Growth	C-NOEC	5	20	10.0-30.0	SDS (mg/L)
3/6/2018	Growth	MSDp	34.8	28.5	0.7-56.3	SDS (mg/L)

Initial Water Quality and Analytical Data Summary				
Parameter	Units	Effluent	Receiving Water	Site-Specific Lab Water
Specific Conductance	umhos/cm	1046	270	123
pH	SU	6.83	6.7	7.47
Total Residual Chlorine	mg/L	<0.02	-	-
Alkalinity	mg/L	51	10	26
Hardness	mg/L	93	24	32
Total Solids	mg/L	610	-	-
Total Dissolved Solids	mg/L	570	-	-
Total Organic Carbon	mg/L	8.9	3.3	1.1
Ammonia	mg/L	<0.1	<0.1	<0.1
Aluminum, total	mg/L	0.04	0.085	<0.02
Cadmium, total	mg/L	<0.0003	<0.0003	<0.0001
Calcium, total	mg/L	26.3	7.14	6.12
Copper, total	mg/L	0.013	0.0014	0.0013
Lead, total	mg/L	0.0006	0.0005	<0.0002
Magnesium, total	mg/L	5.89	1.34	4
Nickel, total	mg/L	0.005	<0.001	<0.001
Zinc, total	mg/L	0.06	0.012	0.0026

Effluent Start Water			
Parameter	Result	Quant Limit	Units
Total Solids	610	10	mg/L
Total Dissolved Solids	570	5	mg/L
Alkalinity as CaCO3	51	2	mg/L
Total Organic Carbon	8.9	0.4	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	93	0.3	mg/L
Aluminum, total	0.04	0.02	mg/L
Cadmium, total	ND	0.0003	mg/L
Calcium, total	26.3	0.05	mg/L
Copper, total	0.013	0.0005	mg/L
Lead, total	0.0006	0.0003	mg/L
Magnesium, total	5.89	0.05	mg/L
Nickel, total	0.005	0.001	mg/L
Zinc, total	0.06	0.002	mg/L

Effluent First Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	61	2	mg/L
Total organic carbon	8.3	0.4	mg/L
Ammonia-N	0.13	0.1	mg/L as N
Hardness as CaCO3	99	0.3	mg/L
Aluminum, total	0.047	0.02	mg/L
Cadmium, total	ND	0.0003	mg/L
Calcium, total	26.8	0.05	mg/L
Copper, total	0.011	0.0005	mg/L
Lead, total	0.005	0.0003	mg/L
Magnesium, total	5.99	0.05	mg/L
Nickel, total	0.0056	0.001	mg/L
Zinc, total	0.048	0.002	mg/L

Effluent Second Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	68	2	mg/L
Total organic carbon	10.3	0.4	mg/L
Ammonia-N	1.2	0.1	mg/L as N
Hardness as CaCO3	93	0.3	mg/L
Aluminum, total	0.11	0.02	mg/L
Cadmium, total	ND	0.0003	mg/L
Calcium, total	26.7	0.05	mg/L
Copper, total	0.015	0.0005	mg/L
Lead, total	0.0008	0.0003	mg/L
Magnesium, total	5.55	0.05	mg/L
Nickel, total	0.0059	0.001	mg/L
Zinc, total	0.057	0.002	mg/L

Receiving Water Start			
Alkalinity as CaCO3	10	2	mg/L
Total Organic Carbon	3.3	0.4	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	24	0.3	mg/L
Aluminum, total	0.085	0.02	mg/L
Cadmium, total	ND	0.0003	mg/L
Calcium, total	7.14	0.05	mg/L
Copper, total	0.0014	0.0005	mg/L
Lead, total	0.0005	0.0003	mg/L
Magnesium, total	0.34	0.05	mg/L
Nickel, total	ND	0.001	mg/L
Zinc, total	0.012	0.002	mg/L

Receiving Water First Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	8.7	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	25	0.3	mg/L

Receiving Water Second Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	7.4	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	26	0.3	mg/L

SSR W-1132 03/13/18			
Total solids	86	10	mg/L
Total suspended solids	ND	1	mg/L
Total dissolved solids	26	5	mg/L
Alkalinity as CaCO3	26	2	mg/L
Total Organic Carbon	1.1	0.4	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	32	0.3	mg/L
Aluminum, total	ND	0.02	mg/L
Cadmium, total	ND	0.0001	mg/L
Calcium, total	6.12	0.05	mg/L
Chromium, total	ND	0.001	mg/L
Copper, total	0.0013	0.0005	mg/L
Iron, total	ND	0.01	mg/L
Lead, total	ND	0.0002	mg/L
Magnesium, total	4	0.05	mg/L
Nickel, total	ND	0.001	mg/L
Selenium, total	0.0031	0.002	mg/L
Zinc, total	0.0026	0.002	mg/L

SSR W-1132 03/15/18			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	22	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	32	0.3	mg/L

SSR W-1132 03/17/18			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	22	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	30	0.3	mg/L

Organism History and Water Chemistry Record						
Species	Hatch Date	Age	Food	Temperature (Celsius)	Total Hardness (as CaCO3)	pH
P. promelas	3/12/2018		Artemia sp.	24	~100 mg/L	7.3
	Began Feeding	Life Stage		Salinity Conductivity	Total Alkalinity (as CaCO3)	
				--	~100 mg/L	

Appendix D: Quarterly Toxicologocal Reporting Data for the Easterly Wastewater Treatment Facility

June 2018 Toxicological Report			
Acute Toxicity	Acute Toxicity	Chronic	Chronic
Ceriodaphnia dubia	Pimephales promelas	Ceriodaphnia dubia	Pimephales promelas
Meets Permit/Protocol	Meets Permit/Protocol	Meets Permit/Protocol	Meets Permit/Protocol

Summary of Reference Toxicant Data						
Date	Endpoint		Value	Historic Mean/Central Tendency	Acceptable Range	Reference Toxicant
C. dubia						
6/5/2018	Survival	LC-50	14	22.9	2.3-43.5	SDS (mg/L)
6/5/2018	Survival	C-NOEC	30	60	30-120	Copper (ug/L)
6/5/2018	Reproduction	C-NOEC	15	30	15-60	Copper (ug/L)
6/5/2018	Reproduction	MSDp	28.3	30	12.8-47.3	Copper (ug/L)
P. promelas						
6/5/2018	Survival	LC-50	37.1	34.4	24.2-44.6	SDS (mg/L)
5/1/2018	Survival	C-NOEC	10	10	5.0-20.0	SDS (mg/L)
5/1/2018	Growth	C-NOEC	10	10	5.0-20.0	SDS (mg/L)
5/1/2018	Growth	MSDp	22.1	28	0.6-55.5	SDS (mg/L)

Initial Water Quality and Analytical Data Summary				
Parameter	Units	Effluent	Receiving Water	Site-Specific Lab Water
Specific Conductance	umhos/cm	955	413	124
pH	SU	7.01	7.3	7.48
Total Residual Chlorine	mg/L	<0.02	-	-
Alkalinity	mg/L	91	21	22
Hardness	mg/L	97	42	31
Total Solids	mg/L	600	-	-
Total Dissolved Solids	mg/L	560	-	-
Total Organic Carbon	mg/L	13	3.2	0.9
Ammonia	mg/L	0.2	<0.1	<0.1
Aluminum, total	mg/L	0.082	0.06	<0.02
Cadmium, total	mg/L	<0.0003	<0.0003	<0.0001
Calcium, total	mg/L	23.1	13.5	5.89
Copper, total	mg/L	0.018	0.0025	0.0014
Lead, total	mg/L	0.001	0.0011	<0.0002
Magnesium, total	mg/L	9.43	2.15	3.76
Nickel, total	mg/L	0.0062	0.0012	<0.001
Zinc, total	mg/L	0.063	0.013	0.0028

Effluent Start Water			
Parameter	Result	Quant Limit	Units
Total Solids	600	10	mg/L
Total Dissolved Solids	560	5	mg/L
Alkalinity as CaCO3	91	2	mg/L
Total Organic Carbon	13	0.4	mg/L
Ammonia-N	0.2	0.1	mg/L as N
Hardness as CaCO3	97	0.3	mg/L
Aluminum, total	0.082	0.02	mg/L
Cadmium, total	ND	0.0003	mg/L
Calcium, total	23.1	0.05	mg/L
Copper, total	0.018	0.0005	mg/L
Lead, total	0.001	0.0003	mg/L
Magnesium, total	9.43	0.05	mg/L
Nickel, total	0.0062	0.001	mg/L
Zinc, total	0.063	0.002	mg/L

Effluent First Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	75	2	mg/L
Ammonia-N	0.26	0.1	mg/L as N
Hardness as CaCO3	100	0.3	mg/L

Effluent Second Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	90	2	mg/L
Ammonia-N	0.38	0.1	mg/L as N
Hardness as CaCO3	110	0.3	mg/L

Receiving Water Start			
Alkalinity as CaCO3	21	2	mg/L
Total Organic Carbon	3.2	0.4	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	42	0.3	mg/L
Aluminum, total	0.06	0.02	mg/L
Cadmium, total	ND	0.0003	mg/L
Calcium, total	13.5	0.05	mg/L
Copper, total	0.0025	0.0005	mg/L
Lead, total	0.0011	0.0003	mg/L
Magnesium, total	2.15	0.05	mg/L
Nickel, total	0.0012	0.001	mg/L
Zinc, total	0.013	0.002	mg/L

Receiving Water First Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	ND	2	mg/L
Ammonia-N	0.1	0.1	mg/L as N
Hardness as CaCO3	45	0.3	mg/L

Receiving Water Second Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	22	2	mg/L
Ammonia-N	0.11	0.1	mg/L as N
Hardness as CaCO3	43	0.3	mg/L

SSR W-1153 06/12/18			
Total solids	100	10	mg/L
Total suspended solids	ND	1	mg/L
Total dissolved solids	73	5	mg/L
Alkalinity as CaCO3	22	2	mg/L
Total Organic Carbon	0.9	0.4	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	31	0.3	mg/L
Aluminum, total	ND	0.02	mg/L
Cadmium, total	ND	0.0001	mg/L
Calcium, total	5.89	0.05	mg/L
Chromium, total	ND	0.001	mg/L
Copper, total	0.0014	0.0005	mg/L
Iron, total	ND	0.01	mg/L
Lead, total	ND	0.0002	mg/L
Magnesium, total	3.76	0.05	mg/L
Nickel, total	ND	0.001	mg/L
Selenium, total	0.003	0.002	mg/L
Zinc, total	0.0028	0.002	mg/L

SSR W-1153 06/14/18			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	23	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	31	0.3	mg/L

SSR W-1153 06/16/18			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	23	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	31	0.3	mg/L

Organism History and Water Chemistry Record						
Species	Hatch Date	Age	Food	Temperature (Celsius)	Total Hardness (as CaCO3)	pH
P. promelas	6/10/2018	1 day	Artemia sp.	25	135 mg/L	7.96
	Began Feeding	Life Stage		Salinity Conductivity	Total Alkalinity (as CaCO3)	
	6/11/2018	Larvae		--	100 mg/L	

Appendix D: Quarterly Toxicologocal Reporting Data for the Easterly Wastewater Treatment Facility

September 2018 Toxicological Report			
Acute Toxicity	Acute Toxicity	Chronic	Chronic
Ceriodaphnia dubia	Pimephales promelas	Ceriodaphnia dubia	Pimephales promelas
Meets Permit/Protocol	Meets Permit/Protocol	Meets Permit/Protocol	Meets Permit/Protocol

Summary of Reference Toxicant Data						
Date	Endpoint		Value	Historic Mean/Central Tendency	Acceptable Range	Reference Toxicant
C. dubia						
9/5/2018	Survival	LC-50	10	22.7	2.2-43.1	SDS (mg/L)
9/5/2018	Survival	C-NOEC	30	30	15-60	Copper (ug/L)
9/5/2018	Reproduction	C-NOEC	30	30	15-60	Copper (ug/L)
9/5/2018	Reproduction	MSDp	40.8	30.3	13.2-47.3	Copper (ug/L)
P. promelas						
9/6/2018	Survival	LC-50	36.4	34.1	21.3-46.9	SDS (mg/L)
9/18/2018	Survival	C-NOEC	10	10	5.0-20.0	SDS (mg/L)
9/18/2018	Growth	C-NOEC	10	10	5.0-20.0	SDS (mg/L)
9/18/2018	Growth	MSDp	7.3	27.4	0.0-55.0	SDS (mg/L)

Initial Water Quality and Analytical Data Summary				
Parameter	Units	Effluent	Receiving Water	Site-Specific Lab Water
Specific Conductance	umhos/cm	977	435	140
pH	SU	7.15	6.94	7.76
Total Residual Chlorine	mg/L	0	-	-
Alkalinity	mg/L	71	27	22
Hardness	mg/L	120	48	32
Total Solids	mg/L	640	-	-
Total Dissolved Solids	mg/L	560	-	-
Total Organic Carbon	mg/L	19.5	3.8	1.1
Ammonia	mg/L	0.46	<0.1	0.25
Aluminum, total	mg/L	0.13	0.039	<0.01
Cadmium, total	mg/L	<0.0003	0.0001	<0.0001
Calcium, total	mg/L	23.7	15	5.81
Copper, total	mg/L	0.031	0.0018	0.0009
Lead, total	mg/L	0.0009	0.0006	<0.0002
Magnesium, total	mg/L	10	2.27	3.61
Nickel, total	mg/L	0.0077	0.0013	<0.001
Zinc, total	mg/L	0.056	0.0095	0.0025

Effluent Start Water			
Parameter	Result	Quant Limit	Units
Total Solids	640	10	mg/L
Total Dissolved Solids	560	5	mg/L
Alkalinity as CaCO3	71	2	mg/L
Total Organic Carbon	19.5	0.4	mg/L
Ammonia-N	0.46	0.1	mg/L as N
Hardness as CaCO3	120	0.3	mg/L
Aluminum, total	0.13	0.02	mg/L
Cadmium, total	ND	0.0003	mg/L
Calcium, total	23.7	0.05	mg/L
Copper, total	0.031	0.0005	mg/L
Lead, total	0.0009	0.0003	mg/L
Magnesium, total	10	0.05	mg/L
Nickel, total	0.0077	0.001	mg/L
Zinc, total	0.056	0.002	mg/L

Effluent First Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	72	2	mg/L
Ammonia-N	0.24	0.1	mg/L as N
Hardness as CaCO3	88	0.3	mg/L

Effluent Second Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	74	2	mg/L
Ammonia-N	0.31	0.2	mg/L as N
Hardness as CaCO3	110	0.3	mg/L

Receiving Water Start			
Alkalinity as CaCO3	27	2	mg/L
Total Organic Carbon	3.8	0.4	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	48	0.3	mg/L
Aluminum, total	0.039	0.02	mg/L
Cadmium, total	0.0001	0.0001	mg/L
Calcium, total	15	0.05	mg/L
Copper, total	0.0018	0.0005	mg/L
Lead, total	0.0006	0.0002	mg/L
Magnesium, total	2.27	0.05	mg/L
Nickel, total	0.0013	0.001	mg/L
Zinc, total	0.0095	0.002	mg/L

Receiving Water First Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	16	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	32	0.3	mg/L

Receiving Water Second Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	19	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	31	0.3	mg/L

SSR W-1173 09/12/18			
Total solids	ND	10	mg/L
Total suspended solids	ND	1	mg/L
Total dissolved solids	98	5	mg/L
Alkalinity as CaCO3	22	2	mg/L
Total Organic Carbon	1.1	0.4	mg/L
Ammonia-N	0.25	0.1	mg/L as N
Hardness as CaCO3	32	0.3	mg/L
Aluminum, total	ND	0.02	mg/L
Cadmium, total	ND	0.0001	mg/L
Calcium, total	5.81	0.05	mg/L
Chromium, total	ND	0.001	mg/L
Copper, total	0.0009	0.0005	mg/L
Iron, total	ND	0.01	mg/L
Lead, total	ND	0.0002	mg/L
Magnesium, total	3.61	0.05	mg/L
Nickel, total	ND	0.001	mg/L
Selenium, total	0.0029	0.002	mg/L
Zinc, total	0.0025	0.002	mg/L

SSR W-1173 09/13/18			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	20	2	mg/L
Ammonia-N	0.22	0.1	mg/L as N
Hardness as CaCO3	31	0.3	mg/L

SSR W-1173 09/15/18			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	20	2	mg/L
Ammonia-N	0.22	0.1	mg/L as N
Hardness as CaCO3	31	0.3	mg/L

Organism History and Water Chemistry Record						
Species	Hatch Date	Age	Food	Temperature (Celsius)	Total Hardness (as CaCO3)	pH
P. promelas	9/9/2018	1 day	Artemia sp.	25	130 mg/L	7.93
	Began Feeding	Life Stage		Salinity Conductivity	Total Alkalinity (as CaCO3)	
	9/10/2018	Larvae		--	90 mg/L	

Appendix D: Quarterly Toxicologocal Reporting Data for the Easterly Wastewater Treatment Facility

December 2018 Toxicological Report			
Acute Toxicity	Acute Toxicity	Chronic	Chronic
Ceriodaphnia dubia	Pimephales promelas	Ceriodaphnia dubia	Pimephales promelas
Meets Permit/Protocol	Meets Permit/Protocol	Meets Permit/Protocol	Meets Permit/Protocol

Summary of Reference Toxicant Data						
Date	Endpoint		Value	Historic Mean/Central Tendency	Acceptable Range	Reference Toxicant
C. dubia						
12/4/2018	Survival	LC-50	29.2	20.9	4.0-37.7	SDS (mg/L)
12/12/2018	Survival	C-NOEC	30	30	15-60	Copper (ug/L)
12/12/2018	Reproduction	C-NOEC	30	30	15-60	Copper (ug/L)
12/12/2018	Reproduction	MSDp	27.6	30	12.1-47.8	Copper (ug/L)
P. promelas						
12/4/2018	Survival	LC-50	34.5	33.8	21.9-45.8	SDS (mg/L)
12/4/2018	Survival	C-NOEC	20	10	5.0-20.0	SDS (mg/L)
12/4/2018	Growth	C-NOEC	20	10	5.0-20.0	SDS (mg/L)
12/4/2018	Growth	MSDp	24	27.2	0.1-54.3	SDS (mg/L)

Initial Water Quality and Analytical Data Summary				
Parameter	Units	Effluent	Receiving Water	Site-Specific Lab Water
Specific Conductance	umhos/cm	782	205	110
pH	SU	7.04	6.62	7.69
Total Residual Chlorine	mg/L	<0.02	-	-
Alkalinity	mg/L	64	12	23
Hardness	mg/L	82	22	30
Total Solids	mg/L	450	-	-
Total Dissolved Solids	mg/L	460	-	-
Total Organic Carbon	mg/L	19.8	3.7	2.1
Ammonia	mg/L	0.21	<0.1	<0.01
Aluminum, total	mg/L	0.065	0.11	<0.02
Cadmium, total	mg/L	<0.0003	<0.0001	<0.0001
Calcium, total	mg/L	21.5	6.73	5.66
Copper, total	mg/L	0.013	0.004	0.0009
Lead, total	mg/L	0.0007	0.0005	<0.0002
Magnesium, total	mg/L	6.54	1.17	3.61
Nickel, total	mg/L	0.006	<0.001	<0.001
Zinc, total	mg/L	0.048	0.011	<0.002

Effluent Start Water			
Parameter	Result	Quant Limit	Units
Total Solids	450	10	mg/L
Total Dissolved Solids	460	5	mg/L
Alkalinity as CaCO3	64	2	mg/L
Total Organic Carbon	9.8.	0.4	mg/L
Ammonia-N	0.21	0.1	mg/L as N
Hardness as CaCO3	82	0.3	mg/L
Aluminum, total	0.065	0.02	mg/L
Cadmium, total	ND	0.0003	mg/L
Calcium, total	21.5	0.05	mg/L
Copper, total	0.013	0.0005	mg/L
Lead, total	0.0007	0.0003	mg/L
Magnesium, total	6.54	0.05	mg/L
Nickel, total	0.006	0.001	mg/L
Zinc, total	0.048	0.002	mg/L

Effluent First Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	73	2	mg/L
Ammonia-N	0.25	0.1	mg/L as N
Hardness as CaCO3	81	0.3	mg/L

Effluent Second Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	66	2	mg/L
Ammonia-N	0.13	0.1	mg/L as N
Hardness as CaCO3	83	0.3	mg/L

Receiving Water Start			
Alkalinity as CaCO3	12	2	mg/L
Total Organic Carbon	3.7	0.4	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	22	0.3	mg/L
Aluminum, total	0.11	0.02	mg/L
Cadmium, total	ND	0.0001	mg/L
Calcium, total	6.73	0.05	mg/L
Copper, total	0.004	0.0005	mg/L
Lead, total	0.0005	0.0002	mg/L
Magnesium, total	1.17	0.05	mg/L
Nickel, total	ND	0.001	mg/L
Zinc, total	0.011	0.002	mg/L

Receiving Water First Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	15	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	24	0.3	mg/L

Receiving Water Second Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	11	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	22	0.3	mg/L

SSR W-1198 12/11/18			
Total solids	62	10	mg/L
Total suspended solids	ND	1	mg/L
Total dissolved solids	1100	5	mg/L
Alkalinity as CaCO3	23	2	mg/L
Total Organic Carbon	2.1	0.4	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	30	0.3	mg/L
Aluminum, total	ND	0.02	mg/L
Cadmium, total	ND	0.0001	mg/L
Calcium, total	5.66	0.05	mg/L
Chromium, total	ND	0.001	mg/L
Copper, total	0.0009	0.0005	mg/L
Iron, total	ND	0.01	mg/L
Lead, total	ND	0.0002	mg/L
Magnesium, total	3.61	0.05	mg/L
Nickel, total	ND	0.001	mg/L
Selenium, total	0.0029	0.002	mg/L
Zinc, total	ND	0.002	mg/L

SSR W-1198 12/13/18			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	23	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	31	0.3	mg/L

SSR W-1198 12/15/18			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	23	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	29	0.3	mg/L

Organism History and Water Chemistry Record						
Species	Hatch Date	Age	Food	Temperature (Celsius)	Total Hardness (as CaCO3)	pH
P. promelas	12/9/2018	1 day	Artemia sp.	23	131 mg/L	8.3
	Began Feeding	Life Stage		Salinity Conductivity	Total Alkalinity (as CaCO3)	
	12/10/2018	Larvae		--	100 mg/L	

Appendix D: Quarterly Toxicologocal Reporting Data for the Easterly Wastewater Treatment Facility

March 2019 Toxicological Report			
Acute Toxicity	Acute Toxicity	Chronic	Chronic
Ceriodaphnia dubia	Pimephales promelas	Ceriodaphnia dubia	Pimephales promelas
Meets Permit/Protocol	Meets Permit/Protocol	Meets Permit/Protocol	Meets Permit/Protocol

Summary of Reference Toxicant Data						
Date	Endpoint		Value	Historic Mean/Central Tendency	Acceptable Range	Reference Toxicant
C. dubia						
3/19/2019	Survival	LC-50	28	23	3.8-36.9	SDS (mg/L)
3/19/2019	Survival	C-NOEC	30	30	15.0-60.0	Copper (ug/L)
3/19/2019	Reproduction	C-NOEC	15	30	15.0-60.0	Copper (ug/L)
3/19/2019	Reproduction	MSDp	18.7	29.8	11.4-48.3	Copper (ug/L)
P. promelas						
3/21/2019	Survival	LC-50	38	34	22.1-45.8	SDS (mg/L)
2/12/2019	Survival	C-NOEC	20	10	5.0-20.0	SDS (mg/L)
2/12/2019	Growth	C-NOEC	20	10	5.0-20.0	SDS (mg/L)
2/12/2019	Growth	MSDp	30.1	27.2	0.5-54.0	SDS (mg/L)

Initial Water Quality and Analytical Data Summary				
Parameter	Units	Effluent	Receiving Water	Site-Specific Lab Water
Specific Conductance	umhos/cm	1070	775	106
pH	SU	7.01	6.62	7.33
Total Residual Chlorine	mg/L	<0.02	-	-
Alkalinity	mg/L	89	12	20
Hardness	mg/L	93	35	29
Total Solids	mg/L	610	-	-
Total Dissolved Solids	mg/L	590	-	-
Total Organic Carbon	mg/L	13.6	2.98	1.03
Ammonia	mg/L	0.52	<0.1	<0.1
Aluminum, total	mg/L	0.076	0.12	<0.02
Cadmium, total	mg/L	<0.0003	<0.0003	<0.0001
Calcium, total	mg/L	22.9	10.3	5.41
Copper, total	mg/L	0.015	0.0022	0.0008
Lead, total	mg/L	0.0007	0.0007	<0.0002
Magnesium, total	mg/L	8.62	2.1	3.69
Nickel, total	mg/L	0.006	0.0011	<0.001
Zinc, total	mg/L	0.058	0.017	0.0024

Effluent Start Water			
Parameter	Result	Quant Limit	Units
Total Solids	610	10	mg/L
Total Dissolved Solids	590	5	mg/L
Alkalinity as CaCO3	89	2	mg/L
Total Organic Carbon			mg/L
Ammonia-N	0.52	0.1	mg/L as N
Hardness as CaCO3	93	0.3	mg/L
Aluminum, total	0.076	0.02	mg/L
Cadmium, total	ND	0.0003	mg/L
Calcium, total	22.9	0.05	mg/L
Copper, total	0.015	0.0005	mg/L
Lead, total	0.0007	0.0003	mg/L
Magnesium, total	8.62	0.05	mg/L
Nickel, total	0.006	0.001	mg/L
Zinc, total	0.058	0.002	mg/L

Effluent First Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	44	2	mg/L
Ammonia-N	0.42	0.1	mg/L as N
Hardness as CaCO3	94	0.3	mg/L

Effluent Second Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	80	2	mg/L
Ammonia-N	0.71	0.1	mg/L as N
Hardness as CaCO3	95	0.3	mg/L

Receiving Water Start			
Alkalinity as CaCO3	12	2	mg/L
Total Organic Carbon			mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	35	0.3	mg/L
Aluminum, total	0.12	0.02	mg/L
Cadmium, total	ND	0.0003	mg/L
Calcium, total	10.3	0.05	mg/L
Copper, total	0.0022	0.0005	mg/L
Lead, total	0.0007	0.0003	mg/L
Magnesium, total	2.1	0.05	mg/L
Nickel, total	0.0011	0.001	mg/L
Zinc, total	0.017	0.002	mg/L

Receiving Water First Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	13	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	52	0.3	mg/L

Receiving Water Second Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	10	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	30	0.3	mg/L

SSR W-1209 03/12/19			
Total solids			mg/L
Total suspended solids			mg/L
Total dissolved solids			mg/L
Alkalinity as CaCO3	20	2	mg/L
Iron, total	ND	0.01	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	29	0.3	mg/L
Aluminum, total	ND	0.02	mg/L
Cadmium, total	ND	0.0005	mg/L
Calcium, total	5.41	0.05	mg/L
Chromium, total	ND	0.002	mg/L
Copper, total	0.0008	0.002	mg/L
Lead, total	ND	0.0005	mg/L
Magnesium, total	3.7	0.05	mg/L
Nickel, total	ND	0.002	mg/L
Selenium, total	0.0027	0.002	mg/L
Zinc, total	0.0024	0.002	mg/L

SSR W-1211 03/14/19			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	19	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	29	0.3	mg/L

SSR W-1211 03/16/19			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	22	2	mg/L
Ammonia-N	0.26	0.1	mg/L as N
Hardness as CaCO3	31	0.3	mg/L

Organism History and Water Chemistry Record						
Species	Hatch Date	Age	Food	Temperature (Celsius)	Total Hardness (as CaCO3)	pH
P. promelas	3/10/2019	1 day	Artemia sp.	24	150 mg/L	8.18
	Began Feeding	Life Stage		Salinity Conductivity	Total Alkalinity (as CaCO3)	
	3/11/2019	Larvae		--	95 mg/L	

Appendix D: Quarterly Toxicologocal Reporting Data for the Easterly Wastewater Treatment Facility

June 2019 Toxicological Report			
Acute Toxicity	Acute Toxicity	Chronic	Chronic
Ceriodaphnia dubia	Pimephales promelas	Ceriodaphnia dubia	Pimephales promelas
Meets Permit/Protocol	Meets Permit/Protocol	Meets Permit/Protocol	Meets Permit/Protocol

Summary of Reference Toxicant Data						
Date	Endpoint		Value	Historic Mean/Central Tendency	Acceptable Range	Reference Toxicant
C. dubia						
6/4/2019	Survival	LC-50	29.3	22.8	3.2-40.9	SDS (mg/L)
6/4/2019	Survival	C-NOEC	30	30	15.0-60.0	Copper (ug/L)
6/4/2019	Reproduction	C-NOEC	30	30	15.0-60.0	Copper (ug/L)
6/4/2019	Reproduction	MSDp	16.9	29.5	11.1-47.9	Copper (ug/L)
P. promelas						
6/20/2019	Survival	LC-50	36.5	34	21.4-46.5	SDS (mg/L)
6/4/2019	Survival	C-NOEC	10	10	5.0-20.0	SDS (mg/L)
6/4/2019	Growth	C-NOEC	10	10	5.0-20.0	SDS (mg/L)
6/4/2019	Growth	MSDp	28.2	2701	0.7-53.3	SDS (mg/L)

Initial Water Quality and Analytical Data Summary				
Parameter	Units	Effluent	Receiving Water	Site-Specific Lab Water
Specific Conductance	umhos/cm	917	288	113
pH	SU	7.17	6.67	7.68
Total Residual Chlorine	mg/L	<0.02	-	-
Alkalinity	mg/L	69	<2	21
Hardness	mg/L	97	33	31
Total Solids	mg/L	590	-	-
Total Dissolved Solids	mg/L	540	-	-
Total Organic Carbon	mg/L	13.7	4.2	5.5
Ammonia	mg/L	<0.1	<0.1	<0.1
Aluminum, total	mg/L	0.11	0.069	<0.02
Cadmium, total	mg/L	<0.0001	<0.0001	<0.0001
Calcium, total	mg/L	22.3	9.57	5.91
Copper, total	mg/L	0.014	0.0023	0.0025
Lead, total	mg/L	0.0007	0.0009	0.0005
Magnesium, total	mg/L	8.28	1.44	3.47
Nickel, total	mg/L	0.0061	<0.001	<0.001
Zinc, total	mg/L	0.04	0.01	0.003

Effluent Start Water			
Parameter	Result	Quant Limit	Units
Total Solids	590	10	mg/L
Total Dissolved Solids	540	5	mg/L
Alkalinity as CaCO3	69	2	mg/L
Total Organic Carbon	13.7	0.4	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	97	0.3	mg/L
Aluminum, total	0.11	0.02	mg/L
Cadmium, total	ND	0.0001	mg/L
Calcium, total	22.3	0.05	mg/L
Copper, total	0.014	0.0005	mg/L
Lead, total	0.0007	0.0002	mg/L
Magnesium, total	8.28	0.05	mg/L
Nickel, total	0.0061	0.001	mg/L
Zinc, total	0.04	0.002	mg/L

Effluent First Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	77	2	mg/L
Ammonia-N	0.14	0.1	mg/L as N
Hardness as CaCO3	94	0.3	mg/L

Effluent Second Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	91	2	mg/L
Ammonia-N	1.1	0.1	mg/L as N
Hardness as CaCO3	100	0.3	mg/L

Receiving Water Start			
Alkalinity as CaCO3	ND	2	mg/L
Total Organic Carbon	4.2	0.4	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	33	0.3	mg/L
Aluminum, total	0.069	0.02	mg/L
Cadmium, total	ND	0.0001	mg/L
Calcium, total	9.57	0.05	mg/L
Copper, total	0.0023	0.0005	mg/L
Lead, total	0.0009	0.0002	mg/L
Magnesium, total	1.44	0.05	mg/L
Nickel, total	ND	0.001	mg/L
Zinc, total	0.01	0.002	mg/L

Receiving Water First Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	18	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	32	0.3	mg/L

Receiving Water Second Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	17	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	32	0.3	mg/L

SSR W-1227 06/11/19			
Total Solids	84	10	mg/L
Total Suspended Solids	ND	1	mg/L
Total Dissolved Solids	67	5	mg/L
Alkalinity as CaCO3	21	2	mg/L
Total Organic Carbon	5.5	0.8	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	31	0.3	mg/L
Aluminum, total	ND	0.02	mg/L
Cadmium, total	ND	0.0001	mg/L
Calcium, total	5.91	0.05	mg/L
Chromium, total	ND	0.001	mg/L
Copper, total	0.0025	0.0005	mg/L
Iron, total	0.062	0.01	mg/L
Lead, total	0.0005	0.0002	mg/L
Magnesium, total	3.47	0.05	mg/L
Nickel, total	ND	0.001	mg/L
Selenium, total	0.0027	0.002	mg/L
Zinc, total	0.003	0.002	mg/L

SSR W-1227 06/13/19			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	21	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	31	0.3	mg/L

SSR W-1227 06/15/19			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	21	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	31	0.3	mg/L

Organism History and Water Chemistry Record						
Species	Hatch Date	Age	Food	Temperature (Celsius)	Total Hardness (as CaCO3)	pH
P. promelas	6/9/2016	1 day	Artemia sp.	24	125 mg/L	8.15
	Began Feeding	Life Stage		Salinity Conductivity	Total Alkalinity (as CaCO3)	
	6/10/2019			--	90 mg/L	

Appendix D: Quarterly Toxicologocal Reporting Data for the Easterly Wastewater Treatment Facility

September 2019 Toxicological Report			
Acute Toxicity	Acute Toxicity	Chronic	Chronic
Ceriodaphnia dubia	Pimephales promelas	Ceriodaphnia dubia	Pimephales promelas
Meets Permit/Protocol	Meets Permit/Protocol	Meets Permit/Protocol	Meets Permit/Protocol

Summary of Reference Toxicant Data						
Date	Endpoint		Value	Historic Mean/Central Tendency	Acceptable Range	Reference Toxicant
C. dubia						
9/5/2019	Survival	LC-50	20.3	22.5	4.9-40.1	SDS (mg/L)
9/24/2019	Survival	C-NOEC	15	30	15.0-60.0	Copper (ug/L)
9/24/2019	Reproduction	C-NOEC	15	30	15.0-60.0	Copper (ug/L)
9/24/2019	Reproduction	MSDp	23.7	29.3	11.1-47.5	Copper (ug/L)
P. promelas						
9/5/2019	Survival	LC-50	31.2	34.2	23.5-44.8	SDS (mg/L)
8/27/2019	Survival	C-NOEC	10	10	5.0-20.0	SDS (mg/L)
8/27/2019	Growth	C-NOEC	10	10	5.0-20.0	SDS (mg/L)
8/27/2019	Growth	MSDp	8.3	26.7	0.3-53.1	SDS (mg/L)

Initial Water Quality and Analytical Data Summary				
Parameter	Units	Effluent	Receiving Water	Site-Specific Lab Water
Specific Conductance	umhos/cm	977	459	125
pH	SU	7.4	7.05	7.77
Total Residual Chlorine	mg/L	<0.02	-	-
Alkalinity	mg/L	98	29	20
Hardness	mg/L	99	58	32
Total Solids	mg/L	570	-	-
Total Dissolved Solids	mg/L	530	-	-
Total Organic Carbon	mg/L	19.3	3	1
Ammonia	mg/L	7.48	<0.1	<0.1
Aluminum, total	mg/L	0.069	0.049	<0.01
Cadmium, total	mg/L	<0.0003	<0.0003	<0.0001
Calcium, total	mg/L	20.4	18.8	7.06
Copper, total	mg/L	0.03	0.0045	<0.0005
Lead, total	mg/L	0.0008	0.0007	<0.0002
Magnesium, total	mg/L	11.7	2.56	3.75
Nickel, total	mg/L	0.01	0.0011	<0.0005
Zinc, total	mg/L	0.073	0.015	<0.002

Effluent Start Water			
Parameter	Result	Quant Limit	Units
Total Solids	570	10	mg/L
Total Dissolved Solids	530	5	mg/L
Alkalinity as CaCO3	98	2	mg/L
Total Organic Carbon	19.3	0.4	mg/L
Ammonia-N	7.48	0.1	mg/L as N
Hardness as CaCO3	99	0.3	mg/L
Aluminum, total	0.069	0.02	mg/L
Cadmium, total	ND	0.0003	mg/L
Calcium, total	20.4	0.05	mg/L
Copper, total	0.03	0.0005	mg/L
Lead, total	0.0008	0.0003	mg/L
Magnesium, total	11.7	0.05	mg/L
Nickel, total	0.01	0.001	mg/L
Zinc, total	0.073	0.003	mg/L

Effluent First Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	110	4	mg/L
Ammonia-N	1.25	0.1	mg/L as N
Hardness as CaCO3	120	0.3	mg/L

Effluent Second Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	0	0	mg/L
Ammonia-N	1.69	0.1	mg/L as N
Hardness as CaCO3	120	0.7	mg/L

Receiving Water Start			
Alkalinity as CaCO3	29	2	mg/L
Total Organic Carbon	3	0.4	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	58	0.3	mg/L
Aluminum, total	0.049	0.02	mg/L
Cadmium, total	ND	0.0003	mg/L
Calcium, total	18.8	0.05	mg/L
Copper, total	0.0045	0.0005	mg/L
Lead, total	0.0007	0.0003	mg/L
Magnesium, total	2.56	0.05	mg/L
Nickel, total	0.0011	0.001	mg/L
Zinc, total	0.015	0.003	mg/L

Receiving Water First Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	30	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	60	0.3	mg/L

Receiving Water Second Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	30	2	mg/L
Ammonia-N	0.11	0.1	mg/L as N
Hardness as CaCO3	60	0.3	mg/L

SSR W-1242 09/10/19			
Total Solids	66	10	mg/L
Total Suspended Solids	ND	1	mg/L
Total Dissolved Solids	ND	5	mg/L
Alkalinity as CaCO3	20	2	mg/L
Total Organic Carbon	1	0.4	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	32	0.7	mg/L
Aluminum, total	ND	0.01	mg/L
Cadmium, total	ND	0.0001	mg/L
Calcium, total	7.06	0.05	mg/L
Chromium, total	ND	0.0008	mg/L
Copper, total	ND	0.0005	mg/L
Iron, total			mg/L
Lead, total	ND	0.0002	mg/L
Magnesium, total	3.75	0.05	mg/L
Nickel, total	ND	0.0005	mg/L
Selenium, total	0.0027	0.002	mg/L
Zinc, total	ND	0.002	mg/L

SSR W-1242 09/12/19			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	20	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	33	0.7	mg/L

SSR W-1242 09/14/19			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	21	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	33	0.7	mg/L

Organism History and Water Chemistry Record						
Species	Hatch Date	Age	Food	Temperature (Celsius)	Total Hardness (as CaCO3)	pH
P. promelas	9/8/2019	1 day	Artemia sp.	23	118 mg/L	7.81
	Began Feeding	Life Stage		Salinity Conductivity	Total Alkalinity (as CaCO3)	
	9/9/2019	Larvae		--	90 mg/L	

Appendix D: Quarterly Toxicologocal Reporting Data for the Easterly Wastewater Treatment Facility

December 2019 Toxicological Report			
Acute Toxicity	Acute Toxicity	Chronic	Chronic
Ceriodaphnia dubia	Pimephales promelas	Ceriodaphnia dubia	Pimephales promelas
Meets Permit/Protocol	Meets Permit/Protocol	Meets Permit/Protocol	Meets Permit/Protocol

Summary of Reference Toxicant Data						
Date	Endpoint		Value	Historic Mean/Central Tendency	Acceptable Range	Reference Toxicant
C. dubia						
12/3/2019	Survival	LC-50	25.4	24.5	6.8-42.3	SDS (mg/L)
12/3/2019	Survival	C-NOEC	15	30	15.0-60.0	Copper (ug/L)
12/3/2019	Reproduction	C-NOEC	15	15	7.5-30.0	Copper (ug/L)
12/3/2019	Reproduction	MSDp	26.1	29.4	11.3-47.5	Copper (ug/L)
P. promelas						
11/21/2019	Survival	LC-50	34.3	34	23..5-44.5	SDS (mg/L)
10/1/2019	Survival	C-NOEC	5	10	5.0-20.0	SDS (mg/L)
10/1/2019	Growth	C-NOEC	5	10	5.0-20.0	SDS (mg/L)
10/1/2019	Growth	MSDp	35.1	26.8	0.5-53.1	SDS (mg/L)

Initial Water Quality and Analytical Data Summary				
Parameter	Units	Effluent	Receiving Water	Site-Specific Lab Water
Specific Conductance	umhos/cm	991	262	120
pH	SU	6.97	6.59	7.33
Total Residual Chlorine	mg/L	<0.02	-	-
Alkalinity	mg/L	63	11	27
Hardness	mg/L	120	27	30
Total Solids	mg/L	690	-	-
Total Dissolved Solids	mg/L	580	-	-
Total Organic Carbon	mg/L	18.1	4.2	<0.4
Ammonia	mg/L	0.29	<0.1	<0.1
Aluminum, total	mg/L	0.095	0.064	<0.02
Cadmium, total	mg/L	<0.0003	<0.0003	<0.0001
Calcium, total	mg/L	26.8	8.78	7.16
Copper, total	mg/L	0.038	0.0022	<0.0005
Lead, total	mg/L	0.0012	0.0006	<0.0002
Magnesium, total	mg/L	11.6	1.16	3.84
Nickel, total	mg/L	0.0082	<0.001	<0.001
Zinc, total	mg/L	0.083	0.014	<0.002

Effluent Start Water			
Parameter	Result	Quant Limit	Units
Total Solids	690	10	mg/L
Total Dissolved Solids	580	5	mg/L
Alkalinity as CaCO3	63	2	mg/L
Total Organic Carbon	18.1	0.4	mg/L
Ammonia-N	0.29	0.1	mg/L as N
Hardness as CaCO3	120	3	mg/L
Aluminum, total	0.095	0.02	mg/L
Cadmium, total	ND	0.0003	mg/L
Calcium, total	26.8	0.05	mg/L
Copper, total	0.038	0.0005	mg/L
Lead, total	0.0012	0.0003	mg/L
Magnesium, total	11.6	0.05	mg/L
Nickel, total	0.0082	0.001	mg/L
Zinc, total	0.083	0.002	mg/L

Effluent First Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	79	2	mg/L
Ammonia-N	3.13	0.1	mg/L as N
Hardness as CaCO3	110	0.3	mg/L

Effluent Second Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	59	2	mg/L
Ammonia-N	0.33	0.1	mg/L as N
Hardness as CaCO3	120	0.3	mg/L

Receiving Water Start			
Alkalinity as CaCO3	11	2	mg/L
Total Organic Carbon	4.2	0.4	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	27	3	mg/L
Aluminum, total	0.064	0.02	mg/L
Cadmium, total	ND	0.0003	mg/L
Calcium, total	8.78	0.05	mg/L
Copper, total	0.0022	0.0005	mg/L
Lead, total	0.0006	0.0003	mg/L
Magnesium, total	1.16	0.05	mg/L
Nickel, total	ND	0.001	mg/L
Zinc, total	0.014	0.002	mg/L

Receiving Water First Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	5.5	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	21	0.3	mg/L

Receiving Water Second Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	7.3	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	22	0.3	mg/L

SSR W-1258 12/10/19			
Total Solids	110	10	mg/L
Total Suspended Solids	ND	1	mg/L
Total Dissolved Solids	110	5	mg/L
Alkalinity as CaCO3	27	2	mg/L
Total Organic Carbon	ND	0.4	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	30	3	mg/L
Aluminum, total	ND	0.02	mg/L
Cadmium, total	ND	0.0001	mg/L
Calcium, total	7.16	0.05	mg/L
Chromium, total	ND	0.001	mg/L
Copper, total	ND	0.0005	mg/L
Iron, total			mg/L
Lead, total	ND	0.0002	mg/L
Magnesium, total	3.84	0.05	mg/L
Nickel, total	ND	0.001	mg/L
Selenium, total	0.0031	0.002	mg/L
Zinc, total	ND	0.002	mg/L

SSR W-1258 12/13/19			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	22	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	30	0.3	mg/L

SSR W-1258 12/14/19			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	23	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	32	0.3	mg/L

Organism History and Water Chemistry Record						
Species	Hatch Date	Age	Food	Temperature (Celsius)	Total Hardness (as CaCO3)	pH
P. promelas	12/8/2019	1 day	Artemia sp.	24	118 mg/L	7.59
	Began Feeding	Life Stage		Salinity Conductivity	Total Alkalinity (as CaCO3)	
	12/9/2019	Larvae		--	80 mg/L	

Appendix D: Quarterly Toxicologocal Reporting Data for the Easterly Wastewater Treatment Facility

March 2020 Toxicological Report			
Acute Toxicity	Acute Toxicity	Chronic	Chronic
Ceriodaphnia dubia	Pimephales promelas	Ceriodaphnia dubia	Pimephales promelas
Meets Permit/Protocol	Meets Permit/Protocol	Meets Permit/Protocol	Meets Permit/Protocol

Summary of Reference Toxicant Data						
Date	Endpoint		Value	Historic Mean/Central Tendency	Acceptable Range	Reference Toxicant
C. dubia						
3/19/2019	Survival	LC-50	14.7	25.4	9.2-41.6	SDS (mg/L)
3/19/2019	Survival	C-NOEC	30	30	15.0-60.0	Copper (ug/L)
3/19/2019	Reproduction	C-NOEC	30	15	7.5-30.0	Copper (ug/L)
3/19/2019	Reproduction	MSDp	29.6	29.6	11.3-47.9	Copper (ug/L)
P. promelas						
3/21/2019	Survival	LC-50	26.7	33.3	22.4-44.2	SDS (mg/L)
2/12/2019	Survival	C-NOEC	20	10	5.0-20.0	SDS (mg/L)
2/12/2019	Growth	C-NOEC	20	10	5.0-20.0	SDS (mg/L)
2/12/2019	Growth	MSDp	24	26.8	1.0-52.6	SDS (mg/L)

Initial Water Quality and Analytical Data Summary				
Parameter	Units	Effluent	Receiving Water	Site-Specific Lab Water
Specific Conductance	umhos/cm	913	255	132
pH	SU	7.32	6.91	7.65
Total Residual Chlorine	mg/L	<0.02	-	-
Alkalinity	mg/L	79	11	25
Hardness	mg/L	100	27	37
Total Solids	mg/L	550	-	-
Total Dissolved Solids	mg/L	660	-	-
Total Organic Carbon	mg/L	13.1	2.9	0.6
Ammonia	mg/L	<0.1	<0.1	<0.1
Aluminum, total	mg/L	0.081	0.082	<0.02
Cadmium, total	mg/L	<0.0003	<0.0003	<0.0001
Calcium, total	mg/L	25.1	8.48	7.78
Copper, total	mg/L	0.012	0.0019	0.0009
Lead, total	mg/L	0.0038	0.0015	<0.0002
Magnesium, total	mg/L	10.4	1.39	3.87
Nickel, total	mg/L	0.0063	0.001	0.001
Zinc, total	mg/L	0.055	0.016	0.0035

Effluent Start Water			
Parameter	Result	Quant Limit	Units
Total Solids	550	10	mg/L
Total Dissolved Solids	660	5	mg/L
Alkalinity as CaCO3	79	5	mg/L
Total Organic Carbon	13.1	0.4	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	100	0.7	mg/L
Aluminum, total	0.081	0.02	mg/L
Cadmium, total	ND	0.0003	mg/L
Calcium, total	25.1	0.05	mg/L
Copper, total	0.012	0.0005	mg/L
Lead, total	0.0038	0.0003	mg/L
Magnesium, total	10.4	0.05	mg/L
Nickel, total	0.0063	0.001	mg/L
Zinc, total	0.055	0.002	mg/L

Effluent First Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	78	5	mg/L
Ammonia-N	0.13	0.1	mg/L as N
Hardness as CaCO3	100	0.7	mg/L

Effluent Second Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	69	5	mg/L
Ammonia-N	0.15	0.1	mg/L as N
Hardness as CaCO3	100	0.7	mg/L

Receiving Water Start			
Alkalinity as CaCO3	11	2	mg/L
Total Organic Carbon	2.9	0.4	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	27	0.7	mg/L
Aluminum, total	0.082	0.02	mg/L
Cadmium, total	ND	0.0003	mg/L
Calcium, total	8.48	0.05	mg/L
Copper, total	0.0019	0.0005	mg/L
Lead, total	0.0015	0.0003	mg/L
Magnesium, total	1.39	0.05	mg/L
Nickel, total	0.001	0.001	mg/L
Zinc, total	0.016	0.002	mg/L

Receiving Water First Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	9	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	25	0.7	mg/L

Receiving Water Second Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	9.2	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	25	0.7	mg/L

SSR W-1274 03/10/20			
Total solids	62	10	mg/L
Total suspended solids	ND	1	mg/L
Total dissolved solids	61	5	mg/L
Alkalinity as CaCO3	25	2	mg/L
Iron, total			mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	37	0.7	mg/L
Aluminum, total	ND	0.02	mg/L
Cadmium, total	ND	0.0001	mg/L
Calcium, total	7.78	0.05	mg/L
Chromium, total	ND	0.0001	mg/L
Copper, total	0.0009	0.0005	mg/L
Lead, total	ND	0.0002	mg/L
Magnesium, total	3.87	0.05	mg/L
Nickel, total	0.001	0.001	mg/L
Selenium, total	0.0029	0.002	mg/L
Zinc, total	0.0035	0.002	mg/L

SSR W-1274 03/12/20			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	25	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	36	0.7	mg/L

SSR W-1274 03/14/20			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	26	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	38	0.7	mg/L

Organism History and Water Chemistry Record						
Species	Hatch Date	Age	Food	Temperature (Celsius)	Total Hardness (as CaCO3)	pH
P. promelas	3/8/2020	1 day	Artemia sp.	24	128 mg/L	7.56
	Began Feeding	Life Stage		Salinity Conductivity	Total Alkalinity (as CaCO3)	
	3/9/2020	Larvae		--	85 mg/L	

June 2020 Toxicological Report			
Acute Toxicity	Acute Toxicity	Chronic	Chronic
Ceriodaphnia dubia	Pimephales promelas	Ceriodaphnia dubia	Pimephales promelas
Meets Permit/Protocol	Meets Permit/Protocol	Meets Permit/Protocol	Meets Permit/Protocol

Summary of Reference Toxicant Data						
Date	Endpoint		Value	Historic Mean/Central Tendency	Acceptable Range	Reference Toxicant
C. dubia						
6/2/2020	Survival	LC-50	42.5	28.5	12.7-44.4	SDS (mg/L)
6/2/2020	Survival	C-NOEC	30	30	15.0-60.0	Copper (ug/L)
6/2/2020	Reproduction	C-NOEC	30	15	7.5-30.0	Copper (ug/L)
6/2/2020	Reproduction	MSDp	28	29.6	11.5-47.6	Copper (ug/L)
P. promelas						
6/2/2020	Survival	LC-50	29.6	33.7	26.4-40.9	SDS (mg/L)
3/17/2020	Survival	C-NOEC	20	10	5.0-20.0	SDS (mg/L)
5/27/2020	Growth	C-NOEC	20	20	10.0-30.0	SDS (mg/L)
5/27/2020	Growth	MSDp	31.4	26.9	1.2-52.5	SDS (mg/L)

Initial Water Quality and Analytical Data Summary C. dubia				
Parameter	Units	Effluent	Receiving Water	Site-Specific Lab
Specific Conductance	umhos/cm	925	356	925
pH	SU	7.23	6.84	7.55
Total Residual Chlorine	mg/L	<0.02	-	-
Alkalinity	mg/L	85	20	20
Hardness	mg/L	110	40	35
Total Solids	mg/L	600	-	-
Total Dissolved Solids	mg/L	610	-	-
Total Organic Carbon	mg/L	18.8	4..7	<0.4
Ammonia	mg/L	0.18	0.17	<0.1
Aluminum, total	mg/L	0.074	0.053	<0.02
Cadmium, total	mg/L	<0.0003	<0.0003	<0.0001
Calcium, total	mg/L	25.5	13.1	7.57
Copper, total	mg/L	0.013	0.0032	<0.0005
Lead, total	mg/L	0.0007	0.0008	<0.0002
Magnesium, total	mg/L	10.3	1.95	3.89
Nickel, total	mg/L	0.0084	0.0013	<0.001
Zinc, total	mg/L	0.038	0.012	<0.002

Initial Water Quality and Analytical Data Summary P. promelas				
Parameter	Units	Effluent	Receiving Water	Site-Specific Lab Water
Specific Conductance	umhos/cm	932	384	130
pH	SU	7.11	6.84	7.51
Total Residual Chlorine	mg/L	<0.02	-	-
Alkalinity	mg/L	60	21	20
Hardness	mg/L	100	44	35
Total Solids	mg/L	600	-	-
Total Dissolved Solids	mg/L	610	-	-
Total Organic Carbon	mg/L	18.4	3.7	<0.4
Ammonia	mg/L	0.25	<0.1	<0.1
Aluminum, total	mg/L	0.08	0.024	<0.02
Cadmium, total	mg/L	<0.0003	<0.0003	<0.0001
Calcium, total	mg/L	24	14.7	7.57
Copper, total	mg/L	0.017	0.002	<0.0005
Lead, total	mg/L	0.0006	0.0005	<0.0002
Magnesium, total	mg/L	9.63	2.15	3.89
Nickel, total	mg/L	0.0084	<0.001	<0.001
Zinc, total	mg/L	0.049	0.0093	<0.002

Effluent Start Water			
Parameter	Result	Quant Limit	Units
Total Solids	600	20	mg/L
Total Dissolved Solids	610	20	mg/L
Alkalinity as CaCO3	85	5	mg/L
Total Organic Carbon	18.8	1.2	mg/L
Ammonia-N	0.18	0.1	mg/L as N
Hardness as CaCO3	110	0.7	mg/L
Aluminum, total	0.074	0.02	mg/L
Cadmium, total	ND	0.0001	mg/L
Calcium, total	25.5	0.1	mg/L
Copper, total	0.013	0.0005	mg/L
Lead, total	0.0007	0.0003	mg/L
Magnesium, total	10.3	0.1	mg/L
Nickel, total	0.0084	0.001	mg/L
Zinc, total	0.038	0.002	mg/L

Effluent First Renewal			
Parameter	Result	Quant Limit	Units
Total Solids	600	20	mg/L
Total Dissolved Solids	610	20	mg/L
Alkalinity as CaCO3	60	5	mg/L
Total Organic Carbon	18.4	0.4	mg/L
Ammonia-N	0.25	0.1	mg/L as N
Hardness as CaCO3	100	0.7	mg/L
Aluminum, total	0.08	0.02	mg/L
Cadmium, total	ND	0.0003	mg/L
Calcium, total	24	0.1	mg/L
Copper, total	0.017	0.0005	mg/L
Lead, total	0.0006	0.0003	mg/L
Magnesium, total	9.63	0.1	mg/L
Nickel, total	0.0084	0.001	mg/L
Zinc, total	0.049	0.002	mg/L

Effluent Second Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	56	5	mg/L
Total organic carbon	17.3	0.4	mg/L as N
Ammonia-N	0.93	0.1	mg/L as N
Hardness as CaCO3	96	0.7	mg/L

Effluent Third Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	55	5	mg/L
Ammonia-N	0.11	0.1	mg/L as N
Hardness as CaCO3	96	1	mg/L

Receiving Water Start			
Alkalinity as CaCO3	20	2	mg/L
Total Organic Carbon	4.7	0.4	mg/L
Ammonia-N	0.17	0.1	mg/L as N
Hardness as CaCO3	40	0.7	mg/L
Aluminum, total	0.053	0.02	mg/L
Cadmium, total	ND	0.0003	mg/L
Calcium, total	13.1	0.1	mg/L
Copper, total	0.0032	0.0005	mg/L
Lead, total	0.0008	0.0003	mg/L
Magnesium, total	1.95	0.1	mg/L
Nickel, total	0.0013	0.001	mg/L
Zinc, total	0.012	0.002	mg/L

Receiving Water First Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	21	2	mg/L
Total Organic Carbon	3.7	0.4	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	44	0.7	mg/L
Aluminum, total	0.024	0.02	mg/L
Cadmium, total	ND	0.0003	mg/L
Calcium, total	14.7	0.1	mg/L
Copper, total	0.002	0.0005	mg/L
Lead, total	0.0005	0.0003	mg/L
Magnesium, total	2.15	0.1	mg/L
Nickel, total	ND	0.001	mg/L
Zinc, total	0.0093	0.002	mg/L

Receiving Water Second Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	16	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	36	0.7	mg/L

Receiving Water Third Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	20	2	mg/L
Ammonia-N	0.12	0.1	mg/L as N
Hardness as CaCO3	45	1	mg/L

SSR W-1293 06/11/20			
Alkalinity as CaCO3	20	2	mg/L
Total Organic Carbon	ND	0.4	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	35	0.7	mg/L
Aluminum, total	ND	0.02	mg/L
Cadmium, total	ND	0.0001	mg/L
Calcium, total	7.57	0.05	mg/L
Chromium, total	ND	0.001	mg/L
Copper, total	ND	0.0005	mg/L
Lead, total	ND	0.0002	mg/L
Magnesium, total	3.89	0.05	mg/L
Nickel, total	ND	0.001	mg/L
Selenium, total	0.0034	0.002	mg/L
Zinc, total	ND	0.002	mg/L

SSR W-1293 06/13/20			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	20	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	35	0.7	mg/L

SSR W-1293 06/16/20			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	21	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	36	1	mg/L

Organism History and Water Chemistry Record						
Species	Hatch Date	Age	Food	Temperature (Celsius)	Total Hardness (as CaCO3)	pH
	Began Feeding	Life Stage		Conductivity	(as CaCO3)	
P. promelas	6/9/2020	1 day	Artemia sp.	25	114 mg/L	7.39
	6/10/2020			--	90 mg/L	

Appendix D: Quarterly Toxicologocal Reporting Data for the Easterly Wastewater Treatment Facility

September 2020 Toxicological Report			
Acute Toxicity	Acute Toxicity	Chronic	Chronic
Ceriodaphnia dubia	Pimephales promelas	Ceriodaphnia dubia	Pimephales promelas
Meets Permit/Protocol	Meets Permit/Protocol	Meets Permit/Protocol	Meets Permit/Protocol

Summary of Reference Toxicant Data						
Date	Endpoint		Value	Historic Mean/Central Tendency	Acceptable Range	Reference Toxicant
C. dubia						
9/23/2020	Survival	LC-50	41.8	29.7	11.5-47.9	SDS (mg/L)
9/1/2020	Survival	C-NOEC	30	30	15.0-60.0	Copper (ug/L)
9/1/2020	Reproduction	C-NOEC	30	15	7.5-30.0	Copper (ug/L)
9/1/2020	Reproduction	MSDp	43.4	29.7	11.6-47.8	Copper (ug/L)
P. promelas						
9/23/2020	Survival	LC-50	32.4	33.9	26.7-41.0	SDS (mg/L)
9/1/2020	Survival	C-NOEC	10	20	10.0-30.0	SDS (mg/L)
9/1/2020	Growth	C-NOEC	10	20	10.0-30.0	SDS (mg/L)
9/1/2020	Growth	MSDp	34.3	27.1	106-52.6	SDS (mg/L)

Initial Water Quality and Analytical Data Summary				
Parameter	Units	Effluent	Receiving Water	Site-Specific Lab Water
Specific Conductance	umhos/cm	973	477	131
pH	SU	7.02	7.02	7.01
Total Residual Chlorine	mg/L	<0.02	-	-
Alkalinity	mg/L	69	32	22
Hardness	mg/L	100	60	36
Total Solids	mg/L	610	-	-
Total Dissolved Solids	mg/L	630	-	-
Total Organic Carbon	mg/L	21.1	3	<0.4
Ammonia	mg/L	0.13	0.14	<0.1
Aluminum, total	mg/L	0.047	0.033	<0.01
Cadmium, total	mg/L	<0.0003	<0.0003	<0.0001
Calcium, total	mg/L	23.9	19.6	7.49
Copper, total	mg/L	0.029	0.0019	<0.0005
Lead, total	mg/L	0.0005	0.0006	<0.0002
Magnesium, total	mg/L	10.5	2.69	3.92
Nickel, total	mg/L	0.01	0.0011	<0.001
Zinc, total	mg/L	0.063	0.01	<0.002

Effluent Start Water			
Parameter	Result	Quant Limit	Units
Total Solids	610	20	mg/L
Total Dissolved Solids	630	20	mg/L
Alkalinity as CaCO3	69	5	mg/L
Total Organic Carbon	21.1	1	mg/L
Ammonia-N	0.13	0.1	mg/L as N
Hardness as CaCO3	100	0.7	mg/L
Aluminum, total	0.047	0.02	mg/L
Cadmium, total	ND	0.0003	mg/L
Calcium, total	23.9	0.01	mg/L
Copper, total	0.029	0.0005	mg/L
Lead, total	0.0005	0.0003	mg/L
Magnesium, total	10.5	0.1	mg/L
Nickel, total	0.01	0.001	mg/L
Zinc, total	0.063	0.002	mg/L

Effluent First Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	59	5	mg/L
Ammonia-N	0.19	0.1	mg/L as N
Hardness as CaCO3	100	0.7	mg/L

Effluent Second Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	96	5	mg/L
Ammonia-N	0.25	0.1	mg/L as N
Hardness as CaCO3	110	0.7	mg/L

Receiving Water Start			
Alkalinity as CaCO3	32	2	mg/L
Total Organic Carbon	3	0.4	mg/L
Ammonia-N	0.14	0.1	mg/L as N
Hardness as CaCO3	60	0.7	mg/L
Aluminum, total	0.033	0.02	mg/L
Cadmium, total	ND	0.0003	mg/L
Calcium, total	19.6	0.1	mg/L
Copper, total	0.0019	0.0005	mg/L
Lead, total	0.0006	0.0003	mg/L
Magnesium, total	2.69	0.1	mg/L
Nickel, total	0.0011	0.001	mg/L
Zinc, total	0.01	0.002	mg/L

Receiving Water First Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	33	2	mg/L
Ammonia-N	0.14	0.1	mg/L as N
Hardness as CaCO3	65	0.7	mg/L

Receiving Water Second Renewal			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	33	2	mg/L
Ammonia-N	0.14	0.1	mg/L as N
Hardness as CaCO3	66	0.7	mg/L

SSR W-1314 09/15/20			
Total Solids	66	10	mg/L
Total Suspended Solids	ND	1	mg/L
Total Dissolved Solids	ND	5	mg/L
Alkalinity as CaCO3	20	2	mg/L
Total Organic Carbon	1	0.4	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	32	0.7	mg/L
Aluminum, total	ND	0.01	mg/L
Cadmium, total	ND	0.0001	mg/L
Calcium, total	7.06	0.05	mg/L
Chromium, total	ND	0.0008	mg/L
Copper, total	ND	0.0005	mg/L
Iron, total			mg/L
Lead, total	ND	0.0002	mg/L
Magnesium, total	3.75	0.05	mg/L
Nickel, total	ND	0.0005	mg/L
Selenium, total	0.0027	0.002	mg/L
Zinc, total	ND	0.002	mg/L

SSR W-1314 09/18/20			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	22	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	36	0.7	mg/L

SSR W-1314 09/19/20			
Parameter	Result	Quant Limit	Units
Alkalinity as CaCO3	22	2	mg/L
Ammonia-N	ND	0.1	mg/L as N
Hardness as CaCO3	35	0.7	mg/L

Organism History and Water Chemistry Record						
Species	Hatch Date	Age	Food	Temperature (Celsius)	Total Hardness (as CaCO3)	pH
P. promelas	9/13/2020	1 day	Artemia sp.	23	115 mg/L	7.3
	Began Feeding	Life Stage		Salinity Conductivity	Total Alkalinity (as CaCO3)	
	9/14/2020	Larvae		--	90 mg/L	