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VIA ELECTRONIC CORRESPONDENCE

November 29, 2018

CCN: 62272  
File No: 8.DC.20.52

Chief, Environmental Enforcement Section  
Environment and Natural Resources Division  
U.S. Department of Justice  
P.O. Box 7611  
Tom Mariani  
Washington, D.C. 20044-7611  
RE: DOJ No. 90-5-1-1-4022/1  
[Tom.Mariani@usdoj.gov](mailto:Tom.Mariani@usdoj.gov)

Chief, Clean Water Enforcement Branch  
Water Protection Division  
Attn: Brad Ammons  
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Florida Department of Environmental Protection  
Southeast District – West Palm Beach  
3301 Gun Club Road, MSC 7210-1  
West Palm Beach, FL 33406  
Attn: Compliance/Enforcement Section  
[Jason.Andreotta@dep.state.fl.us](mailto:Jason.Andreotta@dep.state.fl.us)

**RE: Consent Decree (Case: No. 1:12-cv-24400-FAM),  
Reference DOJ Case No. 90-5-1-1-4022/1,  
Section XI, Paragraph 52 – Force Majeure,  
Section XVII, Paragraph 77 – Notices,  
Force Majeure Notification Letter for Consent Decree Appendix D-2, Capital  
Improvement Projects 5.2 – Upgrade of Pump Station 0691**

Dear Sir/Madam:

In accordance with the provisions of Section XI, Paragraph 52 of the above referenced Consent Decree (CD), on November 16, 2018 Miami-Dade County (County) electronically notified United States Environmental Agency (EPA) and Florida Department of Environmental Protection (FDEP) of a force majeure of CD Capital Improvement Project (CIP) 5.2 – Upgrade of Pump Station 0691. This project has experienced a force majeure during the construction phase.

In accordance with Section XI, Paragraph 52, this notification letter shall further describe and explain the reasons for the delay; the anticipated duration of the delay; all actions taken or to be

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taken to prevent or minimize the delay; a schedule for implementation of any measures to be taken to prevent or mitigate the delay or the effect of the delay; County's rationale for attributing such delay to a force majeure event if it intends to assert such a claim; a statement as to whether, in the opinion of the County, such event may cause or contribute to an endangerment to public health or the environment, and documentation to support the force majeure claim.

**Background information**

During the December 4, 2015, CD Program Monthly Progress Meeting with EPA and FDEP, the County proposed a non-material change to the scope of CD CIP 5.2 – Upgrade Pump Station (PS) 0691. On February 1, 2016, the County submitted a Request for Non-Material Change for CD Appendix D CIP 5.2 to EPA and FDEP. The modification of scope request was based on the City of Homestead (City) designing and building a new Pump Station 1 (PS1) which would eliminate the need for PS 0691 to act as a booster for excess Homestead flows. On April 19, 2016, the County received EPA and FDEP's approval to modify the scope of CD CIP 5.2 to read "Connect the City of Homestead's PS1, once completed, to the South District Wastewater Treatment Plant (SDWWTP) Transmission System and decommission PS 0691."

The County and the City entered a contract on February 23, 2017, where the City agreed to comply with the CD interim deadlines and compliance completion dates, as presented in Table 1, and to provide monthly updates on the status of the City's pump station. The referenced contract is included herein as Attachment A. The City provided updates and as of September 19, 2018, attested that project completion was expected to be reached at the end of November 2018. On October 24, 2018, the County called for a coordination meeting with the City, and the City's Design Consultant. At this coordination meeting, the City and Design Consultant stated that the Contractor anticipated for the project to be completed by the end of 2018. The City also stated that the Contractor had experienced several delays. The County requested the latest update of the project schedule and the Consultant/Contractor delay correspondence as in included herein as Attachment B.

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CD CIP 5.2 Interim Deadlines and Compliance Completion Date		
Phase	Start	Finish
Engineering	7-Oct-14	9-Sep-16
Permitting	10-Aug-14	8-Mar-17
Procurement	9-Mar-17	3-Dec-17
Construction	4-Dec-17	<b>27-Jan-19</b>

Table 1 - CD CIP 5.2 Interim Deadlines and Compliance Completion Date

**Explanation and description of the reasons for the delay**

The County reviewed and analyzed the project schedule submitted on October 25, 2018 and the delay correspondence. In addition, on November 7, 2018, the County visited the site to assess the actual project status. The following were the findings:

- Significant work by trades remain outstanding.
- Large mechanical equipment/materials remain stored on site, pending installation.
- Recent delays in activities within the provided schedule compared to current progress.
- Schedule discrepancies of reported activities against actual work completed.
- Allocated time for upcoming activities may be insufficient:
  - implied work days during public holidays and weekends, including significant work in November and December around traditional holiday periods
  - several concurrent activities in a congested area
  - little or no time scheduled for commissioning and certifications
- Exhaustive number of delays, delay notices, notice responses with little recovery by the Contractor.

**Action taken or to be taken to prevent or minimize the delay**

1. Request bi-weekly project construction schedules from the City, to monitor actual progress.
2. Schedule a meeting with the City requesting mitigation steps (by the City) to limit potential stipulated penalties.
3. Coordinate bi-weekly site visits to better gauge actual progress.

**Anticipated duration of the delay**

The Contractor schedule dated October 25, 2018, lists major electrical, structural and pipe work pending completion. The County estimates that start-up, commissioning and certification for a pump station of this size and complexity will require more time than allocated by the Contractor's schedule. Based on the comparison of the latest project schedule and the actual work completed and considering the past Contractor's performance, the County estimates the completion CD CIP 5.2 including City's PS1 start-up, commissioning and certification and the following decommissioning of PS 0691 to be completed by December 31, 2019.

**Schedule for implementation of any measures to be taken to prevent or mitigate the delay or the effect of the delay**

Implementation of the mitigation steps are to commence immediately and continue with formal bi-weekly reviews until the PS is substantially complete and available for operation.

**Rational for attributing such delay to a force majeure event**

As defined in CD Section XI, Paragraph 51, a force majeure is any event arising from causes beyond the control of the County, of any entity controlled by the County or of the County's consultants and contractors that delays or prevents the performance of any obligation under the CD despite the County's "best efforts to fulfill the obligation" includes using best effort 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.

Since the County is not in privity with the Contractor, the delay is beyond the County's control.

The latest project schedule anticipates the project's substantial completion date on January 22, 2019 in contradiction with the site assessment findings cited above. The City did not communicate the serious risk of failing to meet the CD compliance date of January 27, 2019.

**Cause of contribute to an endangerment to public health, welfare or the environment**

Pump Station 0691 is fully operational, and is not currently under moratorium and meeting current system demands. There is no indication that delays in decommissioning PS 0691 present an immediate endangerment to the public health, welfare or the environment.

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 such 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.

Should you have any questions regarding this matter, please call me at (786) 552-8571.

Sincerely,



Lynnette M. Ramirez P.E.

Senior Advisor, Capital Improvement Programs & Regulatory Compliance

**Attachments: Attachment A – Miami-Dade County and City of Homestead Sewage Disposal Service Agreement**

**Attachment B – CD CIP 5.2 Schedule (10/25/18)**

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*pull*  
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*Bill*

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Lynn Feldmann (CD PMCM)  
Scott Eckler (CD PMCM)  
Andrea Suarez-Abastida (CD PMCM)  
Cynthia Doyon (CD PMCM)



**Attachment A:  
Miami-Dade County and City of Homestead Sewage Disposal Service  
Agreement**

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CONTRACT  
BETWEEN  
MIAMI-DADE COUNTY AND  
CITY OF HOMESTEAD, FLORIDA PROVIDING FOR  
SEWAGE DISPOSAL SERVICE

THIS CONTRACT, made and entered into this 23<sup>rd</sup> day of February, 2016 ("Effective Date"), by and between Miami-Dade County, a political subdivision of the State of Florida, hereinafter designated as the "COUNTY", and the City of Homestead, a municipal corporation organized and existing under the laws of the State of Florida, (hereinafter designated as the "CITY", and collectively with the COUNTY, the "Parties").

WITNESSETH:

WHEREAS, on July 25, 1995, the COUNTY and the CITY entered into an agreement which provided for the CITY to expand its wastewater treatment plant (the "Agreement"); and

WHEREAS, under the terms of the Agreement, the CITY was permitted to expand its wastewater treatment plant to a capacity of six (6) million gallons per day ("mgd"), and the CITY was required to divert two (2) million gallons per month of its untreated wastewater to the COUNTY'S Pump Station No. 691 for treatment at the COUNTY'S South District Wastewater Treatment Plant ("SDWWTP"); and

WHEREAS, on May 19, 2005, the COUNTY and the CITY entered into Amendment Number One to the Agreement, which modified the rates charged to the CITY for flows treated at the SDWWTP; and

WHEREAS, on June 19, 2012, the COUNTY and the CITY entered into a new contract under which, to the extent capacity was available, the COUNTY would provide a portion of the CITY'S sewage disposal service (the "June 2012 Contract"); and

WHEREAS, under the June 2012 Contract, flows from the CITY to be processed by the COUNTY were to be discharged to the COUNTY'S existing Pump Station 691 located at S.W. 328 Street and S.W. 172 Avenue where the flow is metered; and

WHEREAS, under the June 2012 Contract, the CITY was to reimburse the COUNTY for improvements to County Pump Station No. 691 needed to handle the CITY'S flow; and

WHEREAS, under the June 2012 Contract, the CITY was to pay the COUNTY two million six hundred thousand dollars (\$2,600,000.00) in monthly payments of \$17,376.07 for twenty (20) years; and

WHEREAS, to date, the CITY has paid the COUNTY \$799,325.62, and the COUNTY has incurred a total of \$293,071.18 in expenses for Pump Station 691; and

WHEREAS, in lieu of sending flow to the COUNTY'S Pump Station No. 691, the CITY has decided to construct a new influent pump station ("CITY Pump Station") at its wastewater

treatment plant that will bring its collection system into compliance with the 10-hour nominal average pump operating time requirement; and

WHEREAS, the CITY Pump Station will pump peak flows and flows diverted from the CITY wastewater treatment plant on occasions when flow cannot be processed at the CITY'S wastewater treatment plant into the COUNTY'S 42-inch force main located on S.E. 8 Street (S.W. 328 Street); and

WHEREAS, in light of these changes, the CITY has requested a sewer capacity certification from the COUNTY for discharges into the COUNTY Force Main; and

WHEREAS, in light of these changes, the COUNTY will retire Pump Station No. 691 when the CITY Pump Station is completed and placed into continuous service; and

WHEREAS, as Projects 4.5 and 5.3 to the COUNTY'S Consent Decree entered on April 9, 2014 in the United States of America, State of Florida and State of Florida Department of Environmental Protection v. Miami-Dade County, Case No. 1:12-cv-24400-FAM and as projects SL-1A, SL-1B, SL-4, SL-5, and SP-692E as part of the program for the Ocean Outfall Legislation Compliance Plan, Section 403.086 (9) of the Florida Statutes and Amendment CS/SB 444, the COUNTY will upgrade its Pump Station No. 692 and its transmission facilities downstream of the Point of Connection of the CITY'S Pump Station; and

WHEREAS, because the CITY will construct the CITY Pump Station and the COUNTY will retire Pump Station 691, the COUNTY will reimburse the CITY \$506,254.44 of the monies paid to date toward the costs of improving Pump Station No. 691; and

WHEREAS, the CITY agrees to design, permit, procure and construct the CITY Pump Station to comply with the Environmental Protection Agency and Florida Department Environmental Protection's approved interim deadlines and compliance completion dates as scheduled for Consent Decree Project 5.2 as it relates to Pump Station 691, attached hereto as Exhibit A; and

WHEREAS, the CITY agrees to provide the COUNTY with updates on the status of the CITY Pump Station by the 15<sup>th</sup> of each month so that the COUNTY can include that information in its reports to the Environmental Protection Agency and Florida Department of Environmental Protection; and

WHEREAS, the CITY agrees to provide the COUNTY with documentation regarding the completion of the interim deadlines and compliance completion dates within thirty (30) days of completion of such deadline,

NOW, THEREFORE, in consideration of the mutual covenants and obligations set forth herein, the COUNTY and the CITY agree as follows:

1. The CITY and COUNTY incorporate and adopt the recitals set forth above.
2. As part of the construction of the CITY Pump Station, the CITY shall include a flow metering station on the CITY'S Pump Station discharge line just north of S.E. 8 Street, which shall limit flows to the COUNTY'S facilities to the following: nine (9) mgd before the upgrades to the

COUNTY'S downstream facilities and 21 mgd after completion of the upgrades to the COUNTY'S downstream facilities. The CITY shall design and construct the flow metering station to the standards of the Miami-Dade Water and Sewer Department ("Department") and shall transfer ownership to the COUNTY when it is completed and placed into service, by appropriate Bill of Sale, as shown on Exhibit "B". The COUNTY shall thenceforth own, control, operate and maintain such facilities.

3. The operation and maintenance of the CITY'S Pump Station and all upstream facilities shall be the sole responsibility of the CITY. The CITY acknowledges that the responsibility of the COUNTY to provide sewage disposal service under this Contract shall be limited to the CITY'S existing sewer service area or future sewer service area, which the CITY is legally authorized to serve. The CITY acknowledges that it provides sewage service to areas outside of its existing CITY limits and, as its service area is expanded, said service areas shall be included pursuant to the terms and conditions of this Contract. The CITY agrees not to impose any surcharge on consumers residing outside the CITY as provided in Section 180.191, Florida Statutes.

4. The CITY hereby acknowledges and agrees that any right to connect the CITY'S property to the COUNTY'S sewage system is subject to the terms, covenants and conditions set forth in court orders, judgments, consent orders, consent decrees and the like entered into between the COUNTY and the United States, the State of Florida and/or any other governmental entity, including but not limited to, the Consent Order entered on April 9, 2014 in the United States of America, State of Florida and State of Florida Department of Environmental Protection v. Miami-Dade County, Case No. 1:12-cv-24400-FAM, as well as all other current, subsequent or future enforcement and regulatory actions and proceedings.

5. The CITY agrees and warrants that its sanitary sewage collection and transmission system and any extension thereof shall be operated and maintained in accordance with the requirements of all applicable local, state and federal laws, rules, regulations and permit conditions. The operation and maintenance of all facilities on the CITY'S side of the flow metering station located at the CITY Pump Station discharge line just north of S.E. 8 Street shall be the sole responsibility of the CITY.

6. The CITY, at its sole cost and expense, shall operate and maintain in a diligent manner all CITY structures, wastewater treatment plants, force mains, pumps, equipment and other facilities required for the collection and treatment of sewage and transmission to the point of connection, excluding the master meter installations.

7. The COUNTY reserves the right to inspect the CITY'S collection, transmission and treatment system and take samples of the sewage composition at no cost to the CITY to ascertain that said system is being properly maintained. Said inspections shall be made at reasonable times and upon reasonable notice in such manner as to least disturb the normal operation of the CITY. The CITY hereby agrees to pursue and maintain diligent efforts on a regular and timely basis to reduce infiltration and inflow and to comply with all local, state and/or federal ordinances, laws and regulations regarding infiltration and inflow correction or reduction as now in effect or as enacted in the future.

8. In order for the COUNTY to adequately plan for future capacity demands, within ninety (90) days following the Effective Date of this Contract and on or before each January 1

thereafter, the CITY shall submit to the COUNTY the CITY'S projected annual capacity demands for the next five (5) years. Within one hundred twenty (120) days of the COUNTY'S receipt of the CITY'S projected annual capacity demands for the next five (5) years, the COUNTY shall notify the CITY of the COUNTY'S ability or inability to meet said demands, which is subject to local, state and federal agencies and other regulatory bodies having jurisdiction over such matters. The CITY agrees that the COUNTY shall not be liable in, or any way responsible for, any costs, claims or losses incurred by the CITY as a result of actions by regulatory bodies, including the COUNTY'S Regulatory and Economic Resources Department. The CITY agrees that the COUNTY shall not be liable or in any way responsible for any costs, claims or losses incurred by the CITY as a result of actions by such regulatory bodies. In addition, for the COUNTY'S long range planning, within one hundred and eighty (180) days following the execution of this Contract, the CITY shall submit to the COUNTY the CITY'S projected annual and peak flow capacity demands for the twentieth year following the execution of this Contract.

9. The CITY shall not allow or permit construction or installation of any interconnections of stormwater mains, which allow stormwater to enter the CITY'S sanitary sewage system. Upon notice or discovery of such interconnections, the CITY shall immediately effectuate the lawful disconnection of interconnections in accordance with local, state and federal laws.

10. The CITY recognizes that the COUNTY'S standards for sanitary sewage disposal service are subject to future modifications as a result of future local, state and federal laws and regulations. Accordingly, the CITY agrees that it will abide by, and be bound by, all present and future local, state and federal laws, standards, rules, regulations, permit conditions, including without limitation, the provisions of Chapter 24 of the Code of Miami-Dade County, as amended, and other requirements related to sewage disposal service.

11. The wastewater from all retail customers of the CITY discharged into the CITY'S sanitary sewage systems shall conform to the requirements of all applicable local, state and federal regulatory agencies pertaining to wastewater discharges. If the COUNTY determines that pretreatment facilities are necessary for a retail customer of the CITY to meet such requirements, prior to construction, the CITY shall cause the retail customer to submit plans and specifications for the proposed design of facilities to the COUNTY, which plans shall be subject to the COUNTY'S approval. The CITY shall not issue a Certificate of Use or Certificate of Occupancy until the COUNTY has approved the pretreatment facility.

12. In accordance with the provisions of County Ordinance 89-95, as amended, the CITY shall not render sanitary sewage service to any new retail user until either the COUNTY'S connection charges are paid to the CITY or a written receipt from the COUNTY is provided to the CITY, and said connection charges shall be due by the retail user prior to the issuance of the CITY'S building permit. In the event the CITY provides sanitary sewage service to any new retail user without first ensuring that connection charges are paid prior to the issuance of a building permit, the CITY shall be liable for damages to the COUNTY in the amount of the connection charges owed by the retail user. The COUNTY reserves the right to audit existing records for a period not to exceed applicable statutory limits for payments of said connection charges.

13. As compensation for the transmission, treatment, including reclamation, and any method of disposal of all sewage received from the CITY, the CITY shall pay to the COUNTY a monthly charge for such service based on a uniform rate for all of the COUNTY'S volume

customers. The rate shall be calculated for each fiscal year based on projections from the Department's prior fiscal year and shall be the sum of subsections A – H below. An annual wholesale wastewater true-up adjustment amount, debit or credit, will be imposed in the following fiscal year after completion of the Department's audited financial report. The true-up adjustment will be determined based on the variances in the Department's projected wholesale wastewater expenses (rates) and the actual audited wastewater expenditures (rates).

- (A) That portion of all projected/budgeted annual operating and maintenance expenses, including taxes assessed, if any, incurred by the COUNTY in connection with its regional force main and regional gravity interceptor sewage system, divided by the projected total amount of flow used to bill all the COUNTY'S sewage disposal customers over the same time period.
- (B) That portion of all projected/budgeted annual operating and maintenance expenses, including taxes assessed, if any, incurred by the COUNTY in connection with its regional sewage pumping stations, divided by the projected total amount of flow used to bill all the COUNTY'S sewage disposal customers over the same time period.
- (C) That portion of all projected/budgeted annual operating and maintenance expenses, including taxes assessed, if any, incurred by the COUNTY in connection with its regional sewage pumping plants, reclamation facilities and disposal, including sewage effluent outfalls, deep disposal wells and/or any other effluent disposal process, divided by the projected total amount of flow used to bill all the COUNTY'S sewage disposal customers over the same time period.
- (D) That portion of all projected/budgeted renewal and replacement expenses for all the COUNTY'S regional capital sewage facilities, according to the COUNTY'S policy in effect at the time for determining a rate consistent with good municipal utility accounting practices and the budgeted renewal and replacement projects for the ensuing fiscal year, divided by the projected total amount of flow used to bill all the COUNTY'S sewage disposal customers over the same time period.
- (E) That portion of all the projected/budgeted annual interest obligations of outstanding notes and bonds for its regional sewage system, divided by the projected total amount of flow used to bill all the COUNTY'S sewage disposal customers over the same time period.
- (F) That portion of the projected/budgeted annual charge for the amortization of the COUNTY'S outstanding loans, lines of credit, notes and bonds for its regional sewage system, to be consistent with the requirements under law, divided by the projected total amount of flow used to bill all the COUNTY'S sewage disposal customers over the same time period.
- (G) That portion of projected/budgeted annual administration and general expenses incurred by the COUNTY in connection with its regional sewage system that is not covered by the minimum charge, divided by the projected total amount of flow used to bill all the COUNTY'S sewage disposal customers over the same time period.

- (H) That portion of the charge for the COUNTY'S debt service coverage requirement for loans, lines of credit and bond issues for the COUNTY'S regional sewage system, divided by the projected total amount of flow used to bill all the COUNTY'S sewage disposal customers over the same time period.

14. No costs associated with storm sewer systems or local collection systems shall be included in the computation of said charge. However, the COUNTY reserves the right to revise or modify the service rate and method of calculation included in Section 12 from time to time as may be approved by the Board of County Commissioners in accordance with applicable law, and the CITY agrees to be bound thereby. The COUNTY will attempt to provide the CITY with the preliminary rate a minimum of six (6) weeks in advance of said rate's effective date. The CITY recognizes and agrees that the adopted rate may differ from the preliminary rate.

15. The CITY recognizes and agrees that the COUNTY intends to implement in the future such charges or rate structures, including but not limited to, peak flow surcharges, as it deems necessary to fairly recover its costs for any needed infrastructure improvements, and the CITY agrees to be bound to the rates related to peak flow surcharges when approved by the Board of County Commissioners. The CITY further recognizes and agrees that the COUNTY'S right to revise or modify the rate or methods of calculation under this Section is not limited solely to revisions or modifications allowing the COUNTY to recover costs for infrastructure improvements.

16. Billings for services provided in accordance with this Contract shall be rendered monthly. Invoices will be mailed by the tenth (10) day of the month following the month for which service has been provided, based on meter readings taken by Department employees on or about the twenty-eighth (28) day of each month. Amounts billed on such invoices are due when rendered. Payments not received by the Department on or before twenty-five (25) days after the postmark date of the bill shall be considered past due. All past due invoices shall be subject to a late charge to be determined by the COUNTY, such charge to defray Department costs in processing and otherwise administering late payments, plus the accrual of interest on the past due balance at the maximum legal rate provided by Florida law for contracts in which no interest rate is specified, for each day, including Saturdays, Sundays and holidays, from the past due date until the date of receipt by the Department. For purposes of this Paragraph, date of receipt of payment shall be the date of physical receipt of payment by the Department if hand-delivered or mailed, or date of transfer to the Department's bank, if electronic funds transfer is used.

17. It is hereby agreed that a legally accurate meter shall register not greater than one hundred two percent (102%) of actual consumption and not less than ninety-eight percent (98%) of actual consumption. If a meter is determined by certified test not to be legally accurate, the meter shall be recalibrated at the COUNTY'S expense. Bills for the period following the prior meter accuracy check shall be adjusted to reflect the percentage of inaccuracy. In calculating such billing adjustment, it will be assumed that the meter inaccuracy existed for the entire time interval between meter accuracy checks. The billing adjustment shall be made at the same rate established herein, but the volume used in the billing calculations shall be adjusted as described above. Either the COUNTY or the CITY may check the accuracy of the meters at a time mutually agreeable to the CITY and the COUNTY but not more often than once every three (3) months unless there is a disagreement between the Parties hereto regarding such accuracy. If the CITY requests such a check and the meter is found to be legally accurate, the cost of the meter check

shall be borne by the CITY. Otherwise, the cost of the meter check shall be borne by the COUNTY.

18. In the event of complete or partial failure of the meter to register the CITY's sewage disposal flow, the COUNTY may determine the estimated sewage disposal flow based on the most recent twelve (12) full months of sewage disposal measured by the meter when it was operating properly or another method determined by the Department.

19. The COUNTY hereby grants the CITY the right to audit all Department records related to the computation of the wholesale sanitary sewage rates for each fiscal year. Upon written notice, the COUNTY shall make available for the CITY said records at the offices of the Department on an annual basis. In the event that such audit indicates any discrepancy between the rates used by the COUNTY in computing the monthly service charges to the CITY and those rates determined as a result of the audit, and following the COUNTY'S acceptance of the audit findings, the COUNTY shall make an adjustment, for that fiscal year, in the service charges previously paid by the CITY. The audit must be completed on or before the end of each fiscal year for which the rates apply. Adjustments shall be made for prior fiscal years in accordance with Section 95.11, Florida Statutes.

20. To the extent authorized by Florida law, the CITY hereby agrees to indemnify, defend, save and hold harmless the COUNTY to the extent of all limitations included in Section 768.28 Florida Statutes, from all claims, demands, liabilities, and suits of any nature whatsoever arising out of, because of or due to the breach of the Contract by the CITY, its agents or employees. It is specifically understood and agreed that this indemnification clause does not cover or indemnify the COUNTY for its sole negligence or breach of contract.

21. To the extent authorized by Florida law, the COUNTY hereby agrees to indemnify, defend, save and hold harmless the CITY to the extent of all limitations included in Section 768.28 Florida Statutes, from all claims, demands, liabilities, and suits of any nature whatsoever arising out of, because of or due to the breach of the Contract by the COUNTY, its agents or employees. It is specifically understood and agreed that this indemnification clause does not cover or indemnify the CITY for its sole negligence or breach of contract.

22. Notwithstanding Sections 18 and 19 above, nothing shall create any liability of the COUNTY or the CITY beyond the scope of Section 768.28 Florida Statutes, and monetary limits thereof, as currently in effect or as lawfully amended in the future.

23. Any cessation of sanitary sewage disposal or other service interruptions and any consequences caused by force majeure, inevitable accident or occurrence or cause beyond the reasonable control of the COUNTY, shall not constitute a breach of this Contract on the part of the COUNTY, and the COUNTY shall not be liable to the CITY or its inhabitants or customers for any damage resulting from such cessation or interruption of sewage disposal service. As used herein, force majeure shall mean an act of God, which includes but is not limited to: sudden, unexpected or extraordinary forces of nature such as floods, washouts, storms, hurricanes, fires, earthquakes, landslides, epidemics, explosions or other forces of nature. Inevitable accidents or occurrences shall mean those which are unpreventable by the COUNTY and shall include but not be limited to: strikes; lockouts; other industrial disturbances; wars; blockages; acts of terrorism; insurrections; riots; federal, state, county and local governmental restrictions, regulations and

restraints; military action; civil disturbances; explosions; and conditions in federal, state, county and local permits.

24. The CITY agrees that if any water or waste are discharged by the CITY, either directly or by one of the CITY'S customers, into the COUNTY'S wastewater system that are prohibited by this Contract or that contain substances or possess characteristics contrary to the requirements of COUNTY'S rules and regulations or is in violation of any local, state or federal law or regulation, or which otherwise creates a hazard to health or property, or constitutes a public nuisance, the COUNTY may upon reasonable notice to the CITY:

- (A) Terminate this Contract;
- (B) Require pretreatment to any acceptable condition as determined by the local, state or federal agency prior to discharge into the COUNTY'S Wastewater System;
- (C) Require control over the quantities and rates of discharge; and/or
- (D) Require payment to cover the cost of handling and treating such waste, including any applicable fines or penalties as provided under the COUNTY'S rules and regulations or state or federal law as the same may be amended from time to time.

25. The CITY shall comply with the terms of Section 32-83 of the Miami-Dade County Code regarding peak flow in as expeditious a manner as possible. The CITY shall take all steps necessary to ensure that peak flows conveyed to the COUNTY do not exceed the peak flow limit established for the CITY's sewer system. In addition to any remedy provided by law or provided elsewhere in this Contract, in the event that the CITY does not comply with the terms of Section 32-83 of the Miami-Dade County Code, or does not ensure that peak flows are within the peak flow limit, the CITY shall be in default of this Contract, and the COUNTY may, upon reasonable notice, terminate this Contract.

26. The CITY agrees to cooperate with the COUNTY in the permitting process and/or any other assistance needed for the COUNTY to obtain approval to perform work on the COUNTY'S water and sanitary sewage infrastructure within the CITY'S jurisdiction (the "Work"). The CITY shall not take any action to hinder, interfere or delay the Work. The CITY will endeavor to provide with reasonable diligence such necessary easements or other legal documents required by the COUNTY for performance of the Work within CITY-owned property or right-of-way without additional expense to the COUNTY. The CITY shall not charge any monies or impose any special conditions on the COUNTY to perform the Work.

27. This Contract shall be governed by and construed in accordance with the laws of the State of Florida, and venue for any court proceeding shall be in Miami-Dade County, Florida.

28. All notices required pursuant to this Contract shall be properly given if mailed by United States registered or certified mail addressed to the party to which notice is given at the following respective addresses:

Miami-Dade County  
c/o Director  
Miami-Dade Water and Sewer Department  
3071 S.W. 38th Avenue  
Miami, Florida 33146



City Of Homestead  
c/o City Manager  
790 N. Homestead Boulevard  
Homestead, Florida 33030

29. This Contract shall be and remain in full force and effect for a period of twenty (20) years from the Effective Date of this Contract, provided, however, that this Contract may be terminated at any time by mutual consent and agreement of the Parties hereto. The CITY agrees that it will notify the COUNTY in writing no later than six (6) months prior to the expiration of this Contract if it intends to request negotiation of an additional Contract term. The failure of the CITY to have a valid written agreement with the COUNTY may result in the CITY being billed at the retail rate.

30. No rights pursuant to this Contract shall be assignable by the CITY unless the COUNTY agrees in writing.

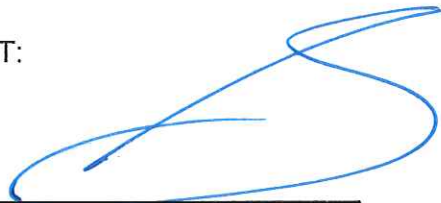
31. No amendment, alteration, change, or modification of the terms of this Contract shall be valid unless made in writing, signed by authorized officers of all Parties and approved by the COUNTY.

32. This Contract contains the entire agreement of the Parties with respect to the subject matter and replaces and supersedes all prior contracts or understandings, oral or written, with respect to such subject matter, and such contracts or understandings are now void and no longer in effect. No amendment, alteration, change, or modification of the terms of this Contract shall be valid unless made in writing, signed by all parties hereto, and approved by the COUNTY.

33. If any Section of this Contract is found to be null and void, the other Sections shall remain in full force and effect.

(The rest of this page is intentionally left blank)

IN WITNESS WHEREOF, the Parties hereto have caused this instrument to be executed by their respective officials thereunto duly authorized, all as of the day and year written above.

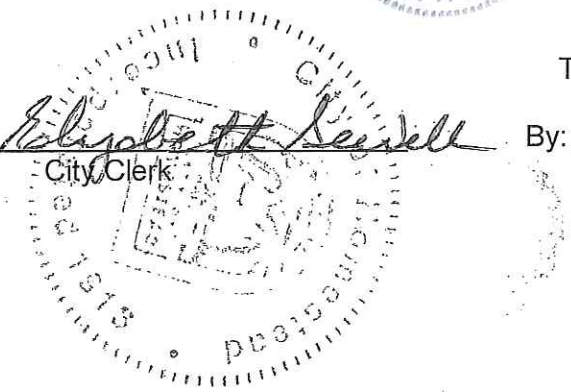
ATTEST:  
By:   
Deputy Clerk

MIAMI-DADE COUNTY  
By:   
County Mayor




ATTEST:  
By:   
City Clerk


THE CITY OF HOMESTEAD  
By:   
City Manager



Approved as to legal form  
and sufficiency

Approved as to legal form  
and sufficiency

  
Assistant County Attorney

  
City Attorney for the City of Homestead

## EXHIBIT A

Consent Decree Project 5.2 Upgrade of Pump Station 691		START	FINISH
5.2.1	Engineering Design - Upgrade Pump Station No. 691	7-Oct-2014	9-Sep-2016
5.2.2	Permitting - Upgrade Pump Station No. 691	10-Aug-2014	8-Mar-2017
5.2.3	Procurement - Upgrade Pump Station No. 691	9-Mar-2017	3-Dec-2017
5.2.4	Construction - Upgrade Pump Station No. 691	4-Dec-2017	27-Jan-2019

**Exhibit "B"**  
**ABSOLUTE BILL OF SALE**

KNOW ALL MEN BY THESE PRESENTS, that the City of Homestead, a municipal corporation organized and existing under the laws of the State of Florida, hereinafter called GRANTOR, for and in consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration, paid and delivered by Miami-Dade County, a political subdivision of the State of Florida, hereinafter called GRANTEE, the receipt whereof is hereby acknowledged, has granted, bargained, sold, transferred and delivered, and by these presents does grant, bargain, sell, transfer and deliver unto the GRANTEE, its successors and assigns, that portion of the GRANTOR'S sewage facilities installed to provide an additional point of connection located at \_\_\_\_\_ Street/Avenue in Miami-Dade County.

The GRANTOR hereby assigns and transfers to the GRANTEE all of its rights, title and interest to the following:

- a. Any and all rights, licenses and permits from the Department of the Army Corps of Engineers, State of Florida Department of Environmental Protection or Miami-Dade County Department Regulatory and Economic Resources Management issued to the CITY in connection with the construction of the sewage facilities.
- b. Any and all other rights, interest, easements, licenses and permits issued or granted by any other governmental authority, person, firm or corporation in connection with the sewage facilities conveyed to the GRANTEE hereunder.

TO HAVE AND TO HOLD the same unto the GRANTEE, its successors and assigns forever. GRANTOR does covenant to and with the GRANTEE, its successors and assigns, that GRANTOR is the lawful owner of the above described; that said property is free from all encumbrances; that GRANTOR has good right to sell the same aforesaid; that GRANTOR will warrant and defend the sale of the said property unto the GRANTEE, its successors and assigns, against the lawful claims and demands of all persons claiming by and through GRANTOR.

IN WITNESS WHEREOF, the GRANTOR has hereunto set its hand and seal this \_\_\_\_\_ day of \_\_\_\_\_, 2016.

ATTEST:      CITY OF HOMESTEAD

\_\_\_\_\_  
City Clerk

\_\_\_\_\_  
City Mayor

**Attachment B:  
CD CIP 5.2 Schedule (10/25/18)**

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Activity ID	Activity Name	Original Duration	Actual Duration	Remaining Duration	Start	Finish	Late Start	Late Finish	Duration % Complete	Total Float	2018			2019				
											Oct	Nov	Dec	Jan	Feb	Mar		
<b>Influent Pump Station - Homestead</b>																		15-Feb-19, Inf
<b>GENERAL CONDITIONS</b>																		08-Jan-19, GENERAL CONI
A1020	Notice to Proceed	0.00	0.00	0.00	03-Jan-17 A			25-Sep-17	100%									
A1040	Apply & Obtain Building City Permit	5.00	115.00	0.00	13-Jan-17 A	08-May-17 A		22-Nov-17	22-Nov-17	100%								
A1050	Apply & Obtain Electrical Permit	5.00	3.00	0.00	27-Nov-17 A	30-Nov-17 A		03-Nov-17	03-Nov-17	100%								
A1060	Apply & Obtain HVAC Permit	5.00	10.00	0.00	04-Jun-18 A	18-Jun-18 A		02-Jan-18	02-Jan-18	100%								
A1070	Apply & Obtain Roofing Permit	5.00	14.00	0.00	19-Jul-18 A	08-Aug-18 A		06-Nov-17	06-Nov-17	100%								
A1080	Apply & Obtain Dewatering Permit	5.00	0.00	0.00	25-Jan-17 A	25-Jan-17 A		22-Nov-17	22-Nov-17	100%								
A1090	Contact Homestead Electric Services	1.00	4.00	0.00	20-Feb-17 A	24-Feb-17 A		29-Dec-17	29-Dec-17	100%								
A1100	HES Site Meeting to Review Temp. & Final Service	15.00	4.00	0.00	27-Feb-17 A	03-Mar-17 A		29-Dec-17	29-Dec-17	100%								
A1110	HES Design/Invoice for their work	20.00	60.00	0.00	24-Apr-17 A	17-Jul-17 A		29-Dec-17	29-Dec-17	100%								
A1120	HES Work	2.00	0.00	2.00	07-Jan-19	08-Jan-19		29-Dec-17	01-Jan-18	0%	-266.00						HES Work	
<b>PROCUREMENT</b>																		31-Oct-18, PROCUREMENT
<b>Project Buyout</b>																		
A1010	Procurement of Subcontractors and Vendors	10.00	59.00	0.00	12-Dec-16 A	03-Mar-17 A		25-Sep-17	25-Sep-17	100%								
<b>Submittal Procurement</b>																		24-Oct-18, Submittal Procurement
A1130	Pre-construction Video/Pictures	5.00	0.00	0.00	03-Feb-17 A	03-Feb-17 A		02-Jan-18	02-Jan-18	100%								
A1140	MOT Plans	5.00	7.00	0.00	09-Feb-17 A	20-Feb-17 A		30-Nov-17	30-Nov-17	100%								
A1150	Bypass System for PS1 & PS21	5.00	0.00	5.00	18-Oct-18	24-Oct-18		16-Nov-17	22-Nov-17	0%	-240.00						Bypass System for PS1: & PS21	
A1160	Cofferdam Calculations	15.00	0.00	0.00	21-Mar-17 A	21-Mar-17 A		22-Nov-17	22-Nov-17	100%								
A1170	Auger Cast Pile	15.00	32.00	0.00	11-Apr-17 A	25-May-17 A		22-Nov-17	22-Nov-17	100%								
A1180	Concrete Mix Design for IJB & IPS	5.00	2.00	0.00	17-Jan-17 A	19-Jan-17 A		22-Nov-17	22-Nov-17	100%								
A1190	Concrete Mix Design for Electrical Bldg.	5.00	5.00	0.00	16-Mar-17 A	23-Mar-17 A		06-Nov-17	06-Nov-17	100%								
A1200	Reinforcing Steel for the IPS & IJB	15.00	47.00	0.00	07-Feb-17 A	13-Apr-17 A		02-Jan-18	02-Jan-18	100%								
A1210	Reinf. Steel for EB (Slabs, Col., Beam, Masonry, et	15.00	2.00	0.00	07-Apr-17 A	11-Apr-17 A		06-Nov-17	06-Nov-17	100%								
A1220	Reinforcing Steel for Generator Slab	15.00	0.00	0.00	06-Mar-17 A	06-Mar-17 A		24-Nov-17	24-Nov-17	100%								
A1230	Precast Structures	15.00	47.00	0.00	17-Mar-17 A	23-May-17 A		06-Nov-17	06-Nov-17	100%								
A1240	PP Concrete Hollow Core Planks	15.00	2.00	0.00	13-Apr-17 A	17-Apr-17 A		06-Nov-17	06-Nov-17	100%								
A1250	Concrete Masonry Units	5.00	97.00	0.00	16-Mar-17 A	31-Jul-17 A		06-Nov-17	06-Nov-17	100%								
A1260	Generator Stairs	15.00	83.00	0.00	08-Feb-17 A	05-Jun-17 A		02-Jan-18	02-Jan-18	100%								
A1270	Pipe Support	15.00	29.00	0.00	13-Feb-17 A	24-Mar-17 A		29-Nov-17	29-Nov-17	100%								
A1280	Bar Screen	20.00	19.00	0.00	10-Feb-17 A	09-Mar-17 A		30-Nov-17	30-Nov-17	100%								
A1290	Aluminum Ladders	10.00	4.00	0.00	13-Jan-17 A	19-Jan-17 A		06-Nov-17	06-Nov-17	100%								
A1300	Aluminum Handrails	15.00	83.00	0.00	08-Feb-17 A	05-Jun-17 A		29-Nov-17	29-Nov-17	100%								
A1310	Hatches	10.00	47.00	0.00	13-Jan-17 A	21-Mar-17 A		06-Nov-17	06-Nov-17	100%								
A1320	Alum. Planks & Checkered Plates	10.00	10.00	0.00	14-Mar-17 A	28-Mar-17 A		30-Nov-17	30-Nov-17	100%								
A1330	BB Roofing System, Gutter & DS	10.00	348.00	0.00	16-Mar-17 A	17-Jul-18 A		06-Nov-17	06-Nov-17	100%							DS	
A1340	Steel Doors & Frames	15.00	245.00	0.00	16-Mar-17 A	22-Feb-18 A		06-Nov-17	06-Nov-17	100%								
A1350	Painting	10.00	0.00	0.00	16-Mar-17 A	16-Mar-17 A		06-Nov-17	06-Nov-17	100%								
A1360	Special Concrete Coatings	10.00	1.00	0.00	18-Jul-18 A	19-Jul-18 A		23-Nov-17	23-Nov-17	100%								
A1370	Fixed Louvers	10.00	91.00	0.00	16-Mar-17 A	21-Jul-17 A		06-Nov-17	06-Nov-17	100%								
A1380	Pumps, Pump Base & Base Elbow	20.00	3.00	0.00	04-Apr-17 A	07-Apr-17 A		02-Nov-17	02-Nov-17	100%								

█ Actual Work      █ Critical Remai...  
█ Remaining Work    ◆ ◆ Milestone

Activity ID	Activity Name	Original Duration	Actual Duration	Remaining Duration	Start	Finish	Late Start	Late Finish	Duration % Complete	Total Float	2018			2019		
											Oct	Nov	Dec	Jan	Feb	Mar
A1400	Stop Logs	20.00	2.00	0.00	03-Apr-17 A	05-Apr-17 A	27-Nov-17	27-Nov-17	100%							
A1410	Schedule 80 PVC Pipe, Fittings	10.00	1.00	0.00	15-Feb-17 A	16-Feb-17 A	21-Nov-17	21-Nov-17	100%							
A1420	DI Pipe, MJ Fittings & App.	15.00	1.00	0.00	15-Feb-17 A	16-Feb-17 A	25-Sep-17	25-Sep-17	100%							
A1430	Flanged DI Pipe and Fittings & App.	15.00	1.00	0.00	15-Feb-17 A	16-Feb-17 A	17-Nov-17	17-Nov-17	100%							
A1440	Motor Operated Valves	20.00	45.00	0.00	19-Apr-17 A	21-Jun-17 A	02-Jan-18	02-Jan-18	100%							
A1450	42" x 24" Tapping Sleeve	25.00	15.00	0.00	10-Apr-17 A	01-May-17 A	06-Nov-17	06-Nov-17	100%							
A1470	Valves (SCV, PV, ARV, Tapping V & VB)	20.00	2.00	0.00	09-Mar-17 A	13-Mar-17 A	21-Nov-17	21-Nov-17	100%							
A1480	Sluice Gate	10.00	2.00	0.00	03-Apr-17 A	05-Apr-17 A	27-Nov-17	27-Nov-17	100%							
A1490	Air Cooler & AC Condenser Units	5.00	2.00	0.00	23-Nov-17 A	27-Nov-17 A	01-Dec-17	01-Dec-17	100%							
A1500	Elect. Mat. (Conduit, Boxes, Wires, etc.)	10.00	9.00	0.00	01-Mar-17 A	14-Mar-17 A	03-Nov-17	03-Nov-17	100%							
A1510	Electrical Meter, Disconn., Boxes & TXF	10.00	9.00	0.00	01-Mar-17 A	14-Mar-17 A	28-Dec-17	28-Dec-17	100%							
A1520	Electrical Panels PP & LP1	15.00	9.00	0.00	01-Mar-17 A	14-Mar-17 A	13-Nov-17	13-Nov-17	100%							
A1530	Variable Frequency Drives (VFDs)	20.00	45.00	0.00	13-Mar-17 A	15-May-17 A	13-Nov-17	13-Nov-17	100%							
A1540	Automatic Transfer Switch	15.00	2.00	0.00	08-Feb-17 A	10-Feb-17 A	13-Nov-17	13-Nov-17	100%							
A1550	Site Lighting	10.00	170.00	0.00	01-Mar-17 A	25-Oct-17 A	13-Nov-17	13-Nov-17	100%							
A1560	Package Engine Generator System	15.00	83.00	0.00	08-Feb-17 A	05-Jun-17 A	24-Nov-17	24-Nov-17	100%							
A1570	Lightning Protection System	10.00	118.00	0.00	01-Mar-17 A	14-Aug-17 A	06-Nov-17	06-Nov-17	100%							
A1580	Pump Control Panel	25.00	93.00	0.00	24-Mar-17 A	02-Aug-17 A	13-Nov-17	13-Nov-17	100%							
A1590	Mag-Meter (24" & 20")	25.00	11.00	0.00	03-Mar-17 A	20-Mar-17 A	06-Nov-17	06-Nov-17	100%							
A1600	Submersible Transmitters & Float Switches	20.00	11.00	0.00	03-Mar-17 A	20-Mar-17 A	17-Nov-17	17-Nov-17	100%							
A1610	Instrumentation Hardware	25.00	11.00	0.00	03-Mar-17 A	20-Mar-17 A	17-Nov-17	17-Nov-17	100%							
A1620	Software/Programming	20.00	11.00	0.00	03-Mar-17 A	20-Mar-17 A	28-Nov-17	28-Nov-17	100%							
A1630	Control & Instrumentation Training Plan	10.00	2.00	0.00	17-Mar-17 A	21-Mar-17 A	28-Nov-17	28-Nov-17	100%							
A1640	Fiber Optic	10.00	11.00	0.00	03-Mar-17 A	20-Mar-17 A	17-Nov-17	17-Nov-17	100%							
<b>Submittal Review by Engineer/Owner</b>		<b>416.00</b>	<b>405.00</b>	<b>5.00</b>	<b>19-Jan-17 A</b>	<b>31-Oct-18</b>	<b>25-Sep-17</b>	<b>02-Jan-18</b>	<b>98.8%</b>	<b>-217.00</b>	▼ 31-Oct-18, Submittal/Review by Engineer/Owner					
A1650	Pre-Construction Video/Pictures	10.00	0.00	0.00	13-Feb-17 A	13-Feb-17 A	02-Jan-18	02-Jan-18	100%							
A1660	MOT Plans	10.00	0.00	0.00	20-Feb-17 A	20-Feb-17 A	30-Nov-17	30-Nov-17	100%							
A1670	Bypass System for PS1 & PS21	5.00	0.00	5.00	25-Oct-18	31-Oct-18	23-Nov-17	29-Nov-17	0%	-240.00	■ Bypass System for PS1 & PS21					
A1680	Cofferdam Calculations	10.00	6.00	0.00	21-Mar-17 A	29-Mar-17 A	22-Nov-17	22-Nov-17	100%							
A1690	Auger Cast Pile	10.00	32.00	0.00	11-Apr-17 A	25-May-17 A	22-Nov-17	22-Nov-17	100%							
A1700	Concrete Mix Design for IJB & IPS	10.00	16.00	0.00	19-Jan-17 A	10-Feb-17 A	22-Nov-17	22-Nov-17	100%							
A1710	Concrete Mix Design for Electrical Building	10.00	111.00	0.00	23-Mar-17 A	25-Aug-17 A	06-Nov-17	06-Nov-17	100%							
A1720	Reinforcing Steel for the IPS & IJB	10.00	50.00	0.00	07-Feb-17 A	18-Apr-17 A	02-Jan-18	02-Jan-18	100%							
A1730	Reinforcing Steel for Electrical Building (Slab, Colu	10.00	4.00	0.00	11-Apr-17 A	17-Apr-17 A	06-Nov-17	06-Nov-17	100%							
A1740	Reinforcing Steel for Generator Slab	10.00	3.00	0.00	06-Mar-17 A	09-Mar-17 A	24-Nov-17	24-Nov-17	100%							
A1750	Precast Structures	10.00	79.00	0.00	21-Feb-17 A	12-Jun-17 A	06-Nov-17	06-Nov-17	100%							
A1760	Precast Pre-stressed Concrete Hollow Core Planks	10.00	28.00	0.00	17-Apr-17 A	25-May-17 A	06-Nov-17	06-Nov-17	100%							
A1770	Concrete Masonry Units	10.00	103.00	0.00	16-Mar-17 A	08-Aug-17 A	06-Nov-17	06-Nov-17	100%							
A1780	Generator Stairs	10.00	87.00	0.00	10-Feb-17 A	13-Jun-17 A	29-Nov-17	29-Nov-17	100%							
A1790	Pipe Support	10.00	5.00	0.00	24-Feb-17 A	03-Mar-17 A	30-Nov-17	30-Nov-17	100%							
A1800	Bar Screen	10.00	4.00	0.00	09-Mar-17 A	15-Mar-17 A	30-Nov-17	30-Nov-17	100%							
A1810	Aluminum Ladders	10.00	21.00	0.00	19-Jan-17 A	17-Feb-17 A	06-Nov-17	06-Nov-17	100%							
A1820	Aluminum Handrails	10.00	87.00	0.00	10-Feb-17 A	13-Jun-17 A	29-Nov-17	29-Nov-17	100%							

█ Actual Work     █ Critical Remai...  
█ Remaining Work     ◆ Milestone

Activity ID	Activity Name	Original Duration	Actual Duration	Remaining Duration	Start	Finish	Late Start	Late Finish	Duration % Complete	Total Float	2018			2019		
											Oct	Nov	Dec	Jan	Feb	Mar
A1830	Hatches	10.00	66.00	0.00	19-Jan-17 A	21-Apr-17 A	06-Nov-17	06-Nov-17	100%							
A1840	Aluminum Planks & Checkered Plates	10.00	14.00	0.00	28-Mar-17 A	17-Apr-17 A	30-Nov-17	30-Nov-17	100%							
A1850	Built-up Bituminous Roofing System, Gutter & DS	10.00	348.00	0.00	16-Mar-17 A	17-Jul-18 A	06-Nov-17	06-Nov-17	100%							
A1860	Steel Doors & Frames	10.00	255.00	0.00	16-Mar-17 A	08-Mar-18 A	06-Nov-17	06-Nov-17	100%							
A1870	Painting	10.00	311.00	0.00	16-Mar-17 A	25-May-18 A	06-Nov-17	06-Nov-17	100%							
A1880	Special Concrete Coatings	5.00	18.00	0.00	16-Jul-18 A	09-Aug-18 A	23-Nov-17	23-Nov-17	100%							
A1890	Fixed Louvers	10.00	96.00	0.00	16-Mar-17 A	28-Jul-17 A	06-Nov-17	06-Nov-17	100%							
A1900	Pumps, Pump Base & Base Elbow	10.00	12.00	0.00	07-Apr-17 A	25-Apr-17 A	02-Nov-17	02-Nov-17	100%							
A1920	Stop Logs	10.00	2.00	0.00	05-Apr-17 A	07-Apr-17 A	27-Nov-17	27-Nov-17	100%							
A1930	Schedule 80 PVC Pipe, Fittings	10.00	4.00	0.00	16-Feb-17 A	22-Feb-17 A	21-Nov-17	21-Nov-17	100%							
A1940	DI Pipe, MJ Fittings & Appurtenances	10.00	7.00	0.00	16-Feb-17 A	27-Feb-17 A	25-Sep-17	25-Sep-17	100%							
A1950	Flanged DI Pipe, Fittings & Appurtenances	10.00	7.00	0.00	16-Feb-17 A	27-Feb-17 A	17-Nov-17	17-Nov-17	100%							
A1960	Motor Operated Valves	10.00	67.00	0.00	21-Apr-17 A	24-Jul-17 A	02-Jan-18	02-Jan-18	100%							
A1970	42" x 24" Tapping Sleeve	10.00	18.00	0.00	12-Apr-17 A	08-May-17 A	06-Nov-17	06-Nov-17	100%							
A1990	Valves (Swing CV, PV, ARV, Tapping V & VB)	10.00	7.00	0.00	13-Mar-17 A	22-Mar-17 A	21-Nov-17	21-Nov-17	100%							
A2000	Sluice Gate	10.00	2.00	0.00	05-Apr-17 A	07-Apr-17 A	27-Nov-17	27-Nov-17	100%							
A2010	Air Cooler (AC) & AC Condenser Units (ACCU)	5.00	3.00	0.00	27-Nov-17 A	30-Nov-17 A	01-Dec-17	01-Dec-17	100%							
A2020	Electrical Materials (Conduit, Boxes, Wires & Grou	10.00	3.00	0.00	14-Mar-17 A	17-Mar-17 A	03-Nov-17	03-Nov-17	100%							
A2030	Electrical Meter, Disconnects, Boxes & Transform	10.00	3.00	0.00	14-Mar-17 A	17-Mar-17 A	28-Dec-17	28-Dec-17	100%							
A2040	Electrical Panels PP & LP1	10.00	119.00	0.00	14-Mar-17 A	28-Aug-17 A	13-Nov-17	13-Nov-17	100%							
A2050	Variable Frequency Drives (VFDs)	10.00	15.00	0.00	15-May-17 A	05-Jun-17 A	13-Nov-17	13-Nov-17	100%							
A2060	Automatic Transfer Switch	10.00	25.00	0.00	10-Feb-17 A	17-Mar-17 A	13-Nov-17	13-Nov-17	100%							
A2070	Site Lighting	5.00	19.00	0.00	25-Oct-17 A	21-Nov-17 A	13-Nov-17	13-Nov-17	100%							
A2080	Package Engine Generator System	10.00	113.00	0.00	10-Feb-17 A	19-Jul-17 A	24-Nov-17	24-Nov-17	100%							
A2090	Lightning Protection System	10.00	1.00	0.00	14-Aug-17 A	15-Aug-17 A	06-Nov-17	06-Nov-17	100%							
A2100	Pump Control Panel	10.00	100.00	0.00	24-Mar-17 A	11-Aug-17 A	13-Nov-17	13-Nov-17	100%							
A2110	Mag-Meter (24" x 20")	10.00	16.00	0.00	24-Mar-17 A	17-Apr-17 A	06-Nov-17	06-Nov-17	100%							
A2120	Submersible Transmitters & Float Switches	10.00	55.00	0.00	21-Mar-17 A	06-Jun-17 A	17-Nov-17	17-Nov-17	100%							
A2130	Instrumentation Hardware	10.00	103.00	0.00	21-Mar-17 A	11-Aug-17 A	17-Nov-17	17-Nov-17	100%							
A2140	Software/Programming	10.00	103.00	0.00	21-Mar-17 A	11-Aug-17 A	28-Nov-17	28-Nov-17	100%							
A2150	Control & Instrumentation Training Plan	10.00	61.00	0.00	20-Mar-17 A	13-Jun-17 A	28-Nov-17	28-Nov-17	100%							
A2160	Fiber Optic	10.00	90.00	0.00	21-Mar-17 A	24-Jul-17 A	17-Nov-17	17-Nov-17	100%							
<b>Equipment, Materials &amp; Special Fabrications Delivery</b>		<b>362.00</b>	<b>382.00</b>	<b>0.00</b>	<b>08-Mar-17 A</b>	<b>24-Aug-18 A</b>	<b>25-Sep-17</b>	<b>02-Jan-18</b>	<b>100%</b>							
A2170	Auger Cast Pile	5.00	13.00	0.00	19-Jun-17 A	06-Jul-17 A	22-Nov-17	22-Nov-17	100%							
A2180	Reinforcing Steel for the IPS & IJB	5.00	340.00	0.00	17-Apr-17 A	03-Aug-18 A	02-Jan-18	02-Jan-18	100%							
A2190	Reinforcing Steel for Electrical Building (Slab, Colu	5.00	167.00	0.00	17-Apr-17 A	06-Dec-17 A	06-Nov-17	06-Nov-17	100%							
A2200	Reinforcing Steel for Generator Slab	5.00	191.00	0.00	10-Mar-17 A	04-Dec-17 A	24-Nov-17	24-Nov-17	100%							
A2210	Precast Structures	20.00	39.00	0.00	12-Jun-17 A	04-Aug-17 A	06-Nov-17	06-Nov-17	100%							
A2220	Precast Pre-stressed Concrete Hollow Core Planks	10.00	216.00	0.00	25-May-17 A	23-Mar-18 A	06-Nov-17	06-Nov-17	100%							
A2230	Generator Stairs & Aluminum Hand Rails	75.00	159.00	0.00	19-Jun-17 A	26-Jan-18 A	29-Nov-17	29-Nov-17	100%							
A2240	Pipe Support, Bar Screen, Aluminum Planks & Che	20.00	164.00	0.00	17-Apr-17 A	01-Dec-17 A	30-Nov-17	30-Nov-17	100%							
A2250	Aluminum Ladders & Hatches	25.00	57.00	0.00	21-Apr-17 A	11-Jul-17 A	06-Nov-17	06-Nov-17	100%							
A2260	Steel Doors & Frames	10.00	97.00	0.00	09-Mar-18 A	24-Jul-18 A	06-Nov-17	06-Nov-17	100%							

█ Actual Work      █ Critical Remai...  
█ Remaining Work    ◆ ◆ Milestone



Activity ID	Activity Name	Original Duration	Actual Duration	Remaining Duration	Start	Finish	Late Start	Late Finish	Duration % Complete	Total Float	2018			2019		
											Oct	Nov	Dec	Jan	Feb	Mar
A2270	Special Concrete Coatings	5.00	22.00	0.00	20-Jul-18 A	21-Aug-18 A	23-Nov-17	23-Nov-17	100%							
A2280	Fixed Louvers	5.00	124.00	0.00	22-Jan-18 A	13-Jul-18 A	06-Nov-17	06-Nov-17	100%							
A2290	Pumps	120.00	133.00	0.00	25-Apr-17 A	27-Oct-17 A	08-Nov-17	08-Nov-17	100%							
A2294	Pump Base, Base Elbow & Appurtenances	15.00	133.00	0.00	25-Apr-17 A	27-Oct-17 A	02-Nov-17	02-Nov-17	100%							
A2310	Stop Logs & Sluice Gate	40.00	95.00	0.00	10-Apr-17 A	19-Aug-17 A	27-Nov-17	27-Nov-17	100%							
A2320	DI Pipe, MJ Fittings & Appurtenances	40.00	143.00	0.00	08-Mar-17 A	25-Sep-17 A	25-Sep-17	25-Sep-17	100%							
A2330	Flanged DI Pipe, Fittings & Appurtenances	40.00	237.00	0.00	31-Mar-17 A	27-Feb-18 A	17-Nov-17	17-Nov-17	100%							
A2340	Motor Operated Valves	60.00	112.00	0.00	03-Jul-17 A	06-Dec-17 A	02-Jan-18	02-Jan-18	100%							
A2350	42" x 24" Tapping Sleeve	20.00	34.00	0.00	08-May-17 A	23-Jun-17 A	06-Nov-17	06-Nov-17	100%							
A2370	Valves (Swing CV, PV, ARV, Tapping V & VB)	60.00	127.00	0.00	23-Mar-17 A	18-Sep-17 A	21-Nov-17	21-Nov-17	100%							
A2380	Air Cooler (AC) & AC Condenser Units (ACCU)	15.00	105.00	0.00	30-Nov-17 A	26-Apr-18 A	01-Dec-17	01-Dec-17	100%							
A2390	Electrical Meter, Disconnects, Boxes & Transformer	15.00	374.00	0.00	20-Mar-17 A	24-Aug-18 A	28-Dec-17	28-Dec-17	100%							
A2400	Electrical Panels PP & LP1	7.00	378.00	0.00	14-Mar-17 A	24-Aug-18 A	13-Nov-17	13-Nov-17	100%							
A2410	Variable Frequency Drives (VFDs)	70.00	63.00	0.00	06-Jun-17 A	01-Sep-17 A	13-Nov-17	13-Nov-17	100%							
A2420	Automatic Transfer Switch	75.00	22.00	0.00	19-Jun-17 A	19-Jul-17 A	13-Nov-17	13-Nov-17	100%							
A2430	Site Lighting	10.00	19.00	0.00	25-Oct-17 A	21-Nov-17 A	13-Nov-17	13-Nov-17	100%							
A2440	Package Engine Generator System	75.00	159.00	0.00	19-Jun-17 A	26-Jan-18 A	24-Nov-17	24-Nov-17	100%							
A2450	Lightning Protection System	3.00	28.00	0.00	01-Feb-18 A	13-Mar-18 A	06-Nov-17	06-Nov-17	100%							
A2460	Pump Control Panel	2.00	22.00	0.00	12-Aug-17 A	13-Sep-17 A	13-Nov-17	13-Nov-17	100%							
A2470	Mag-Meter (24" & 20")	30.00	85.00	0.00	17-Apr-17 A	14-Aug-17 A	06-Nov-17	06-Nov-17	100%							
A2480	Submersible Transmitters & float Switches	15.00	71.00	0.00	06-Jun-17 A	13-Sep-17 A	17-Nov-17	17-Nov-17	100%							
A2490	Instrumentation Hardware & Fiber Optic	5.00	22.00	0.00	12-Aug-17 A	13-Sep-17 A	17-Nov-17	17-Nov-17	100%							
A2500	Software/Programming	5.00	22.00	0.00	12-Aug-17 A	13-Sep-17 A	28-Nov-17	28-Nov-17	100%							
<b>CONSTRUCTION</b>		<b>491.00</b>	<b>456.00</b>	<b>87.00</b>	<b>20-Jan-17 A</b>	<b>15-Feb-19</b>	<b>02-Sep-17</b>	<b>02-Jan-18</b>	<b>82.28%</b>	<b>-294.00</b>				15-Feb-19, CC		
A2510	Locates	3.00	3.00	0.00	20-Jan-17 A	25-Jan-17 A	01-Jan-18	01-Jan-18	100%							
A2520	Mobilization	2.00	4.00	0.00	24-Jan-17 A	30-Jan-17 A	01-Jan-18	01-Jan-18	100%							
A2530	Grade Area of Work to Elevation 6.4	10.00	2.00	0.00	25-Jan-17 A	27-Jan-17 A	01-Jan-18	01-Jan-18	100%							
A2540	Demolish Existing 30" Thick Concrete Slab	20.00	9.00	0.00	27-Jan-17 A	09-Feb-17 A	01-Jan-18	01-Jan-18	100%							
A2550	Install Temporary Power	5.00	383.00	1.00	01-May-17 A	18-Oct-18	01-Jan-18	01-Jan-18	80%	-208.00						
<b>Influent Pump Station (IPS) &amp; Influent Junction Box (I</b>		<b>405.00</b>	<b>417.00</b>	<b>57.00</b>	<b>16-Mar-17 A</b>	<b>04-Jan-19</b>	<b>02-Sep-17</b>	<b>02-Jan-18</b>	<b>85.93%</b>	<b>-264.00</b>				04-Jan-19, Influent Pump Stati		
A2570	SSP Cofferdam for IPS & IJB	10.00	157.00	0.00	16-Jun-17 A	23-Jan-18 A	22-Nov-17	22-Nov-17	100%							
A2574	Pre-Digging the Cofferdam for IPS & IJB	10.00	14.00	0.00	16-Mar-17 A	05-Apr-17 A	22-Nov-17	22-Nov-17	100%							
A2580	Auger Cast Piles for IPS & IJB	3.00	9.00	0.00	26-Jun-17 A	07-Jul-17 A	22-Nov-17	22-Nov-17	100%							
A2590	Cofferdam Excavation for IPS & IJB	7.00	84.00	0.00	13-Nov-17 A	09-Mar-18 A	22-Nov-17	22-Nov-17	100%							
A2600	F&P Tremie Seal for IPS & IJB & curing time	7.00	5.00	0.00	26-Mar-18 A	02-Apr-18 A	22-Nov-17	22-Nov-17	100%							
A2610	Dewatering System Installation	2.00	47.00	0.00	02-Apr-18 A	06-Jun-18 A	22-Nov-17	22-Nov-17	100%							
A2620	Cut-off Auger Cast Piles for IPS & IJB	3.00	48.00	0.00	16-Apr-18 A	21-Jun-18 A	22-Nov-17	22-Nov-17	100%							
A2630	F&P Bottom Slab Elevation -18.92 IPS	8.00	8.00	0.00	07-Jun-18 A	19-Jun-18 A	02-Jan-18	02-Jan-18	100%							
A2640	F&P Concrete Walls Elev. +2.17	18.00	67.00	0.00	28-Jun-18 A	01-Oct-18 A	02-Jan-18	02-Jan-18	100%							
A2650	F&P Concrete Fill Elevation -14.17 IPS	2.00	4.00	0.00	02-Oct-18 A	08-Oct-18 A	02-Jan-18	02-Jan-18	100%							
A2660	F&P Concrete Slab Elevation -12.17 IPS	5.00	9.00	0.00	09-Oct-18 A	19-Oct-18 A	02-Jan-18	02-Jan-18	100%							
A2670	F&P Conc. Walls & floor ramps at Bypass Channel	12.00	0.00	10.00	20-Oct-18 A	27-Oct-18	02-Sep-17	11-Sep-17	16.67%	-411.00						

█ Actual Work      █ Critical Remai...  
█ Remaining Work    ◆ ◆ Milestone

Activity ID	Activity Name	Original Duration	Actual Duration	Remaining Duration	Start	Finish	Late Start	Late Finish	Duration % Complete	Total Float	2018			2019		
											Oct	Nov	Dec	Jan	Feb	Mar
A2672	F&P Concrete for Baffles	6.00	0.00	6.00	29-Oct-18	05-Nov-18	12-Sep-17	19-Sep-17	0%	-294.00						
A2680	Install Stop Log Frames	4.00	0.00	4.00	29-Oct-18	01-Nov-18	27-Nov-17	30-Nov-17	0%	-240.00						
A2700	F&P Concrete Fillets Elevation -17.17 IPS	4.00	0.00	4.00	06-Nov-18	09-Nov-18	28-Sep-17	03-Oct-17	0%	-288.00						
A2710	F& Rebar Instal. for top walls, Beams & top slab el	12.00	0.00	12.00	20-Nov-18	05-Dec-18	04-Oct-17	19-Oct-17	0%	-294.00						
A2720	Install Aluminum Plank & Checkered Plate Frames	5.00	0.00	5.00	29-Nov-18	05-Dec-18	26-Dec-17	01-Jan-18	0%	-242.00						
A2740	Install Electrical Conduits thru Slab	5.00	0.00	5.00	29-Nov-18	05-Dec-18	03-Nov-17	09-Nov-17	0%	-279.00						
A2750	IEC on Concrete Slab from IPS & EB	5.00	0.00	5.00	29-Nov-18	05-Dec-18	26-Dec-17	01-Jan-18	0%	-242.00						
A2760	Install Flange Pipe thru Slab	2.00	0.00	2.00	04-Dec-18	05-Dec-18	17-Nov-17	20-Nov-17	0%	-272.00						
A2770	Install 6" DIP Flange for Level Transducer	1.00	0.00	1.00	05-Dec-18	05-Dec-18	20-Nov-17	20-Nov-17	0%	-272.00						
A2780	F&I Hatches	1.00	0.00	1.00	05-Dec-18	05-Dec-18	01-Jan-18	01-Jan-18	0%	-242.00						
A2782	Pour concrete top walls, beams, slab Elevation 7.00	4.00	0.00	4.00	06-Dec-18	11-Dec-18	20-Oct-17	25-Oct-17	0%	-294.00						
A2790	F&P Bottom Slab Elevation -11.17 IJB	8.00	3.00	0.00	22-Jun-18 A	27-Jun-18 A	22-Nov-17	22-Nov-17	100%	0.00						
A2800	F&P Concrete Walls Elevation +5.34 IJB	8.00	11.00	0.00	05-Jul-18 A	20-Jul-18 A	22-Nov-17	22-Nov-17	100%	0.00						
A2810	F&P Top Slab Elevation 7.00 IJB	5.00	6.00	0.00	24-Jul-18 A	01-Aug-18 A	22-Nov-17	22-Nov-17	100%	0.00						
A2820	F&I Hatch IJB	2.00	4.00	0.00	27-Jul-18 A	01-Aug-18 A	02-Jan-18	02-Jan-18	100%	0.00						
A2822	Backfill & compact outside IPS up to elevation -12.	5.00	0.00	5.00	06-Nov-18	12-Nov-18	20-Sep-17	26-Sep-17	0%	-294.00						
A2830	Install 48" DIP Influent Line between IJB & IPS	2.00	0.00	2.00	09-Nov-18	12-Nov-18	25-Sep-17	26-Sep-17	0%	-294.00						
A2840	Backfill & Compact outside IPS up to elvation -6.96	5.00	0.00	5.00	13-Nov-18	19-Nov-18	27-Sep-17	03-Oct-17	0%	-294.00						
A2842	Remove NS Center I beam	2.00	0.00	2.00	16-Nov-18	19-Nov-18	29-Dec-17	01-Jan-18	0%	-230.00						
A2843	Remove the wailer	3.00	0.00	3.00	12-Dec-18	14-Dec-18	26-Oct-17	30-Oct-17	0%	-294.00						
A2844	Finish backfilling outside the IPS & IJB	4.00	0.00	4.00	14-Dec-18	19-Dec-18	30-Oct-17	02-Nov-17	0%	-294.00						
A2850	Remove SSP Cofferdam	5.00	0.00	5.00	19-Dec-18	25-Dec-18	02-Nov-17	08-Nov-17	0%	-294.00						
A2860	Load & Return SSP	2.00	0.00	2.00	26-Dec-18	27-Dec-18	29-Dec-17	01-Jan-18	0%	-258.00						
A2870	Curing Concrete Top Slabs	15.00	0.00	15.00	06-Dec-18	26-Dec-18	02-Nov-17	22-Nov-17	0%	-285.00						
A2880	Special Coating for IPS & IJB	7.00	0.00	7.00	27-Dec-18	04-Jan-19	23-Nov-17	01-Dec-17	0%	-285.00						
A2890	Bar Screens	2.00	0.00	2.00	03-Jan-19	04-Jan-19	30-Nov-17	01-Dec-17	0%	-285.00						
A2900	Sluice Gate	2.00	0.00	2.00	03-Jan-19	04-Jan-19	29-Dec-17	01-Jan-18	0%	-264.00						
A2910	Stop Logs	1.00	0.00	1.00	04-Jan-19	04-Jan-19	01-Dec-17	01-Dec-17	0%	-285.00						
A2920	Base Elbows & Rail Bracket System	4.00	0.00	4.00	12-Dec-18	17-Dec-18	02-Nov-17	07-Nov-17	0%	-289.00						
A2930	Flange Pipe, Fittings, Valves & Appurtenances IPS	5.00	0.00	5.00	18-Dec-18	24-Dec-18	21-Nov-17	27-Nov-17	0%	-280.00						
A2940	Concrete Pedestals, Pipe Support & Straps	4.00	0.00	4.00	25-Dec-18	28-Dec-18	27-Dec-17	01-Jan-18	0%	-259.00						
A2950	Paint Exposed Pipe	4.00	0.00	4.00	25-Dec-18	28-Dec-18	28-Nov-17	01-Dec-17	0%	-280.00						
A2960	Install Pipe between MH-16 & IJB	5.00	0.00	5.00	20-Dec-18	26-Dec-18	26-Dec-17	01-Jan-18	0%	-257.00						
A2970	Install Connection Boxes for Pump Motor, Floats, L	7.00	0.00	7.00	11-Dec-18	19-Dec-18	17-Nov-17	27-Nov-17	0%	-277.00						
A2975	Install Pumps	3.00	0.00	3.00	18-Dec-18	20-Dec-18	08-Nov-17	10-Nov-17	0%	-289.00						
<b>Pipe Work from Existing 30" FM to IJB</b>		<b>299.00</b>	<b>4.00</b>	<b>8.00</b>	<b>30-May-17 A</b>	<b>31-Dec-18</b>	<b>22-Nov-17</b>	<b>01-Dec-17</b>	<b>97.32%</b>	<b>-281.00</b>						31-Dec-18; Pipe Work from Existing
A2980	Install MJ 30" x 24" Tee, 30" Valve at Existing 30" F	4.00	4.00	0.00	30-May-17 A	03-Jun-17 A	22-Nov-17	22-Nov-17	100%	0.00						
A2990	Flange Pipe, Fittings & Appurtenances	2.00	0.00	2.00	20-Dec-18	21-Dec-18	22-Nov-17	23-Nov-17	0%	-281.00						
A3000	Install Pipe, Fittings & Appurtenances	4.00	0.00	4.00	24-Dec-18	27-Dec-18	24-Nov-17	29-Nov-17	0%	-281.00						
A3010	Pressure Test the 24" Pipe	2.00	0.00	2.00	28-Dec-18	31-Dec-18	30-Nov-17	01-Dec-17	0%	-281.00						
<b>Pipe Work from IPS to WWTP Screening Facility</b>		<b>291.00</b>	<b>4.00</b>	<b>6.00</b>	<b>30-May-17 A</b>	<b>27-Dec-18</b>	<b>03-Nov-17</b>	<b>02-Jan-18</b>	<b>97.94%</b>	<b>-258.00</b>						27-Dec-18; Pipe Work from IPS to
A3020	Install MJ 30" x 24" Tee & 24" Valve at Existing 30"	4.00	4.00	0.00	30-May-17 A	03-Jun-17 A	02-Jan-18	02-Jan-18	100%	0.00						
A3030	Install Pipe, fittings & Appurtenances	4.00	0.00	4.00	20-Dec-18	25-Dec-18	03-Nov-17	08-Nov-17	0%	-294.00						

█ Actual Work     █ Critical Remain...  
█ Remaining Work     ◆ ◆ Milestone

Activity ID	Activity Name	Original Duration	Actual Duration	Remaining Duration	Start	Finish	Late Start	Late Finish	Duration % Complete	Total Float	2018			2019			
											Oct	Nov	Dec	Jan	Feb	Mar	
A3040	Pressure Test the 24" Pipe	2.00	0.00	2.00	26-Dec-18	27-Dec-18	09-Nov-17	10-Nov-17	0%	-294.00							
<b>Pipe Work from IPS to MDWASD PS 691</b>		<b>360.00</b>	<b>41.00</b>	<b>11.00</b>	<b>01-May-17 A</b>	<b>03-Jan-19</b>	<b>06-Nov-17</b>	<b>02-Jan-18</b>	<b>96.94%</b>	<b>-263.00</b>	03-Jan-19, Pipe Work from IPS						
A3050	Install MJ 24" Tee & 24" Valve at Existing 24" Pipe	3.00	2.00	0.00	14-Jun-17 A	16-Jun-17 A	02-Jan-18	02-Jan-18	100%								
A3060	Install Flange Pipe, Fittings & Appurtenances	3.00	0.00	3.00	20-Dec-18	24-Dec-18	28-Dec-17	01-Jan-18	0%	-255.00							
A3070	IP, F&A Up to Station 1+34.02	5.00	0.00	5.00	28-Dec-18	03-Jan-19	13-Nov-17	17-Nov-17	0%	-294.00							
A3080	IP, F&A Up to Station 4+29.91	10.00	41.00	0.00	01-May-17 A	27-Jun-17 A	06-Nov-17	06-Nov-17	100%								
A3090	Tie-in to New 24" Valve	3.00	2.00	0.00	23-Jun-17 A	27-Jun-17 A	04-Dec-17	04-Dec-17	100%								
<b>Pipe Work to 42" MDWASD</b>		<b>308.00</b>	<b>328.00</b>	<b>11.00</b>	<b>17-Jul-17 A</b>	<b>01-Nov-18</b>	<b>06-Nov-17</b>	<b>01-Dec-17</b>	<b>96.43%</b>	<b>-239.00</b>	01-Nov-18, Pipe Work to 42" MDWASD						
A3100	Re-route existing 24" FM	4.00	2.00	0.00	27-Sep-17 A	29-Sep-17 A	06-Nov-17	06-Nov-17	100%								
A3110	Install 42" Tapping Sleeve & 24" Valve at Existing 4	3.00	11.00	0.00	11-Jan-18 A	25-Jan-18 A	06-Nov-17	06-Nov-17	100%								
A3120	IP, F&A from 24" Tee to Station 4+78.30	10.00	328.00	10.00	17-Jul-17 A	31-Oct-18	06-Nov-17	17-Nov-17	0%	-248.00							
A3130	Pressure Test	1.00	0.00	1.00	01-Nov-18	01-Nov-18	01-Dec-17	01-Dec-17	0%	-239.00							
<b>Site Electrical Work</b>		<b>206.00</b>	<b>163.00</b>	<b>56.00</b>	<b>05-Mar-18 A</b>	<b>03-Jan-19</b>	<b>10-Nov-17</b>	<b>01-Jan-18</b>	<b>72.82%</b>	<b>-263.00</b>	03-Jan-19, Site Electrical Work						
A3140	Install Primary Lines from HES Feeder Points	5.00	163.00	2.00	05-Mar-18 A	19-Oct-18	29-Dec-17	01-Jan-18	60%	-209.00							
A3160	Install Conduits for the 20" & 24" Mag Meter & MO	2.00	0.00	2.00	24-Dec-18	25-Dec-18	16-Nov-17	17-Nov-17	0%	-287.00							
A3170	Install Conduits for MOVs 214, 215 & 216	3.00	0.00	3.00	01-Jan-19	03-Jan-19	15-Nov-17	17-Nov-17	0%	-294.00							
A3180	Install Conduits between IPS & Electrical Building	8.00	0.00	8.00	06-Dec-18	13-Dec-18	10-Nov-17	17-Nov-17	0%	-391.00							
A3190	Install Fiber Optic Conduit	5.00	0.00	5.00	06-Dec-18	13-Dec-18	13-Nov-17	17-Nov-17	0%	-278.88							
A3200	Install Lighting Poles	5.00	0.00	5.00	28-Dec-18	03-Jan-19	13-Nov-17	17-Dec-17	0%	-294.00							
<b>Electrical Building</b>		<b>287.00</b>	<b>241.00</b>	<b>66.00</b>	<b>15-Nov-17 A</b>	<b>17-Jan-19</b>	<b>06-Nov-17</b>	<b>02-Jan-18</b>	<b>77%</b>	<b>-273.00</b>	17-Jan-19, Electrical Bui						
A3210	Grade Area for EB	1.00	5.00	0.00	15-Nov-17 A	22-Nov-17 A	24-Nov-17	24-Nov-17	100%								
A3220	Surveyor Layout EB Footprint	1.00	0.00	0.00	22-Nov-17 A	22-Nov-17 A	29-Dec-17	29-Dec-17	100%								
A3230	Install Foundation	5.00	25.00	0.00	06-Dec-17 A	10-Jan-18 A	06-Nov-17	06-Nov-17	100%								
A3240	Electrical Underground	2.00	3.00	0.00	26-Dec-17 A	29-Dec-17 A	29-Dec-17	29-Dec-17	100%								
A3250	Install CMU Walls	5.00	8.00	0.00	23-Jan-18 A	02-Feb-18 A	06-Nov-17	06-Nov-17	100%								
A3260	F&P Columns & Beams	5.00	36.00	0.00	23-Jan-18 A	14-Mar-18 A	06-Nov-17	06-Nov-17	100%								
A3270	Install 8" Hollow Core Concrete Plank	3.00	0.00	0.00	23-Mar-18 A	23-Mar-18 A	06-Nov-17	06-Nov-17	100%								
A3274	Install 2" Concrete Topping over Roof	2.00	0.00	0.00	07-May-18 A	07-May-18 A	06-Nov-17	06-Nov-17	100%								
A3276	Concrete Topping Curing Time	5.00	16.00	0.00	07-May-18 A	29-May-18 A	06-Nov-17	06-Nov-17	100%								
A3280	Install Roofing System	5.00	8.00	0.00	10-Sep-18 A	20-Sep-18 A	06-Nov-17	06-Nov-17	100%								
A3290	Install Stucco	3.00	15.00	0.00	10-Aug-18 A	31-Aug-18 A	06-Nov-17	06-Nov-17	100%								
A3294	Install Gutter & Downspouts	2.00	0.00	2.00	18-Oct-18	19-Oct-18	29-Dec-17	01-Jan-18	0%	-209.00							
A3300	Electrical Rough	10.00	3.00	5.00	15-Oct-18 A	24-Oct-18	06-Nov-17	10-Nov-17	50%	-248.00							
A3302	Install & Terminate Wires in Electrical Building	5.00	0.00	5.00	25-Oct-18	31-Oct-18	26-Dec-17	01-Jan-18	0%	-217.00							
A3310	Install Grounding	10.00	0.00	10.00	18-Oct-18	31-Oct-18	10-Nov-17	23-Nov-17	0%	-244.00							
A3320	HVAC Rough Work	2.00	2.00	0.00	02-Oct-18 A	04-Oct-18 A	02-Jan-18	02-Jan-18	100%								
A3330	Building Dept Underground/Rough Inspection	1.00	0.00	0.00	03-May-18 A	03-May-18 A	13-Nov-17	13-Nov-17	100%								
A3340	Prepare & Pour Concrete Slab	4.00	5.00	0.00	30-Apr-18 A	07-May-18 A	13-Nov-17	13-Nov-17	100%								
A3350	Prepare & Pour Concrete Pads	2.00	3.00	0.00	02-May-18 A	07-May-18 A	13-Nov-17	13-Nov-17	100%								
A3360	Curing Concrete Slab	3.00	16.00	0.00	07-May-18 A	29-May-18 A	02-Jan-18	02-Jan-18	100%								
A3370	Install Louvers	3.00	4.00	0.00	01-Aug-18 A	07-Aug-18 A	06-Nov-17	06-Nov-17	100%								
A3380	Install Roll-up Door, Steel Doors & Frames	5.00	10.00	0.00	02-Aug-18 A	16-Aug-18 A	06-Nov-17	06-Nov-17	100%								
A3390	Painting Building (Interior/Exterior)	5.00	23.00	1.00	17-Sep-18 A	18-Oct-18	06-Nov-17	06-Nov-17	80%	-248.00							

█ Actual Work     █ Critical Remai...  
█ Remaining Work     ◆ Milestone

Activity ID	Activity Name	Original Duration	Actual Duration	Remaining Duration	Start	Finish	Late Start	Late Finish	Duration % Complete	Total Float	2018			2019		
											Oct	Nov	Dec	Jan	Feb	Mar
A3400	Install Main Disconnect, Discon. Switches & TXF	2.00	2.00	0.00	15-Oct-18 A	17-Oct-18 A	28-Dec-17	28-Dec-17	100%							
A3410	Install AHU & ACC Units	3.00	2.00	0.00	02-Oct-18 A	04-Oct-18 A	01-Dec-17	01-Dec-17	100%							
A3420	Install Lighting Fixtures	3.00	0.00	3.00	25-Oct-18	29-Oct-18	28-Dec-17	01-Jan-18	0%	-215.00						
A3430	Install VFDs, ATS, Control Panel, PP & LP Panels	7.00	12.00	0.00	01-Oct-18 A	17-Oct-18 A	13-Nov-17	13-Nov-17	100%							
A3440	Install & Terminate Wires between WW & EB	5.00	0.00	5.00	21-Dec-18	27-Dec-18	13-Nov-17	17-Nov-17	0%	-289.00						
A3450	Building Dept Final Electrical Inspection	1.00	0.00	1.00	04-Jan-19	04-Jan-19	20-Nov-17	20-Nov-17	0%	-294.00						
A3460	HES Provide Power to the Electrical Building	5.00	0.00	5.00	07-Jan-19	11-Jan-19	21-Nov-17	27-Nov-17	0%	-294.00						
A3464	Final Building Inspection	1.00	0.00	1.00	14-Jan-19	14-Jan-19	01-Dec-17	01-Dec-17	0%	-291.00						
A3470	Testing Grounding System	1.00	0.00	1.00	28-Dec-18	28-Dec-18	01-Dec-17	01-Dec-17	0%	-280.00						
A3480	Meg Test for Power Wires & Transformers	2.00	0.00	2.00	28-Dec-18	31-Dec-18	30-Nov-17	01-Dec-17	0%	-281.00						
A3490	Install & Terminate Fiber Optic	2.00	0.00	2.00	28-Dec-18	31-Dec-18	24-Nov-17	27-Nov-17	0%	-285.00						
A3500	Instrumentation Work	4.00	0.00	4.00	14-Jan-19	17-Jan-19	28-Nov-17	01-Dec-17	0%	-294.00						
A3510	VFD Test & Training	1.00	0.00	1.00	14-Jan-19	14-Jan-19	01-Dec-17	01-Dec-17	0%	-291.00						
<b>Generator</b>		<b>282.00</b>	<b>49.00</b>	<b>53.00</b>	<b>29-Nov-17 A</b>	<b>14-Jan-19</b>	<b>24-Nov-17</b>	<b>01-Dec-17</b>	<b>81.21%</b>	<b>-291.00</b>				14-Jan-19, Generator		
A3520	Electrical Underground & Inspection	5.00	0.00	0.00	04-Dec-17 A	04-Dec-17 A	24-Nov-17	24-Nov-17	100%							
A3530	Concrete Pad	3.00	5.00	0.00	29-Nov-17 A	06-Dec-17 A	24-Nov-17	24-Nov-17	100%							
A3534	Generator Concrete Pad Curing Time	5.00	23.00	0.00	06-Dec-17 A	06-Jan-18 A	24-Nov-17	24-Nov-17	100%							
A3540	Generator Installation	3.00	0.00	0.00	01-Feb-18 A	01-Feb-18 A	24-Nov-17	24-Nov-17	100%							
A3550	Aluminum Access Ladders with Hand Rails	3.00	1.00	0.00	05-Feb-18 A	06-Feb-18 A	29-Nov-17	29-Nov-17	100%							
A3560	Bollards	2.00	0.00	2.00	02-Jan-19	03-Jan-19	29-Nov-17	30-Nov-17	0%	-285.00						
A3570	Finish Electrical Work & Inspection	5.00	0.00	5.00	01-Nov-18	07-Nov-18	24-Nov-17	30-Nov-17	0%	-244.00						
A3580	Generator Load Bank Test	1.00	0.00	1.00	14-Jan-19	14-Jan-19	01-Dec-17	01-Dec-17	0%	-291.00						
<b>Startup</b>		<b>21.00</b>	<b>0.00</b>	<b>21.00</b>	<b>18-Jan-19</b>	<b>15-Feb-19</b>	<b>04-Dec-17</b>	<b>01-Jan-18</b>	<b>0%</b>	<b>-294.00</b>				15-Feb-19, Sta		
A3590	Pre-Startup & Loop Checkout	1.00	0.00	1.00	18-Jan-19	18-Jan-19	04-Dec-17	04-Dec-17	0%	-294.00						
A3600	Start-Up	1.00	0.00	1.00	22-Jan-19	22-Jan-19	06-Dec-17	06-Dec-17	0%	-294.00						
A3610	Operator, Maintenance & Instrumentation Training	1.00	0.00	1.00	21-Jan-19	21-Jan-19	05-Dec-17	05-Dec-17	0%	-294.00						
A3620	Availability Test	19.00	0.00	19.00	22-Jan-19	15-Feb-19	06-Dec-17	01-Jan-18	0%	-294.00						
<b>Tie-in &amp; Placement into Service</b>		<b>28.00</b>	<b>0.00</b>	<b>28.00</b>	<b>18-Dec-18</b>	<b>24-Jan-19</b>	<b>24-Nov-17</b>	<b>01-Jan-18</b>	<b>0%</b>	<b>-278.00</b>				24-Jan-19, Tie-in & Pla		
A3630	Locates	4.00	0.00	4.00	18-Dec-18	21-Dec-18	24-Nov-17	29-Nov-17	0%	-277.00						
A3640	F&I MOT for PS1	1.00	0.00	1.00	24-Dec-18	24-Dec-18	30-Nov-17	30-Nov-17	0%	-277.00						
A3650	F&I Bypass System for PS1	2.00	0.00	2.00	24-Dec-18	25-Dec-18	30-Nov-17	01-Dec-17	0%	-277.00						
A3660	Install 36" Temporary Plug	1.00	0.00	1.00	25-Dec-18	25-Dec-18	01-Dec-17	01-Dec-17	0%	-277.00						
A3670	Pressure Clean & Vacuum Wet Well & Dry Pit	1.00	0.00	1.00	26-Dec-18	26-Dec-18	04-Dec-17	04-Dec-17	0%	-277.00						
A3680	R&D Pumps, Mechanical Pipe, Fittings, Valves etc.,	3.00	0.00	3.00	26-Dec-18	28-Dec-18	04-Dec-17	06-Dec-17	0%	-277.00						
A3690	F&I Blind Flanges & Fill Existing Dry Well	1.00	0.00	1.00	28-Dec-18	28-Dec-18	06-Dec-17	06-Dec-17	0%	-277.00						
A3700	Install Bench at Wet Well	2.00	0.00	2.00	31-Dec-18	01-Jan-19	07-Dec-17	08-Dec-17	0%	-277.00						
A3710	F&I Bypass System for PS21 & Test 1 Day	3.00	0.00	3.00	02-Jan-19	04-Jan-19	11-Dec-17	13-Dec-17	0%	-277.00						
A3720	F&I Two (2) 12" Pipe Restraint on Existing 12" Pipe	2.00	0.00	2.00	03-Jan-19	04-Jan-19	12-Dec-17	13-Dec-17	0%	-277.00						
A3730	F&I 10" Line Stop & Bypass Connection	1.00	0.00	1.00	07-Jan-19	07-Jan-19	14-Dec-17	14-Dec-17	0%	-277.00						
A3740	Install 24" Temporary Plug	1.00	0.00	1.00	07-Jan-19	07-Jan-19	14-Dec-17	14-Dec-17	0%	-277.00						
A3750	Pressure Clean & Vacuum the Wet Well	1.00	0.00	1.00	08-Jan-19	08-Jan-19	15-Dec-17	15-Dec-17	0%	-277.00						
A3760	R&D Pumps, Mechanical Pipe, fittings & Valves, V	3.00	0.00	3.00	08-Jan-19	10-Jan-19	15-Dec-17	19-Dec-17	0%	-277.00						
A3770	Install Bench at Wet Well	2.00	0.00	2.00	11-Jan-19	14-Jan-19	20-Dec-17	21-Dec-17	0%	-277.00						

█ Actual Work     █ Critical Remai...  
█ Remaining Work     ◆ ◆ Milestone

Activity ID	Activity Name	Original Duration	Actual Duration	Remaining Duration	Start	Finish	Late Start	Late Finish	Duration % Complete	Total Float	2018			2019			
											Oct	Nov	Dec	Jan	Feb	Mar	
A3780	F&I 20" DI Pipe between Wet Well & MH #17	3.00	0.00	3.00	15-Jan-19	17-Jan-19	22-Dec-17	26-Dec-17	0%	-277.00							■ F&I 20" DI Pipe between
A3790	Remove Existing Control Panel & Wiring	2.00	0.00	2.00	16-Jan-19	17-Jan-19	29-Dec-17	01-Jan-18	0%	-273.00							■ Remove Existing Control
A3800	Paint Interior of Wet Well at PS1 & PS21	2.00	0.00	2.00	18-Jan-19	21-Jan-19	27-Dec-17	28-Dec-17	0%	-277.00							■ Paint Interior of Wet We
A3810	Remove Existing Brick Plug from PS1 & Temporary	1.00	0.00	1.00	23-Jan-19	23-Jan-19	29-Dec-17	29-Dec-17	0%	-278.00							■ Remove Existing Brick
A3820	Remove Bypass System from PS1 & PS21	2.00	0.00	2.00	23-Jan-19	24-Jan-19	29-Dec-17	01-Jan-18	0%	-278.00							■ Remove Bypass Syste
A3830	Site Restoration	2.00	0.00	2.00	23-Jan-19	24-Jan-19	29-Dec-17	01-Jan-18	0%	-278.00							■ Site Restoration
A3840	Remove MOT	1.00	0.00	1.00	24-Jan-19	24-Jan-19	01-Jan-18	01-Jan-18	0%	-278.00							■ Remove MOT
<b>PROJECT CLOSEOUT</b>		<b>18.00</b>	<b>0.00</b>	<b>18.00</b>	<b>22-Jan-19</b>	<b>15-Feb-19</b>	<b>18-Dec-17</b>	<b>01-Jan-18</b>	<b>0%</b>	<b>-294.00</b>							▼ 15-Feb-19, PR
A3850	Substantial Completion (11/28/17, 330 CD from NT)	0.00	0.00	0.00		22-Jan-19		25-Dec-17	0%	-281.00							◆ Substantial Completion
A3860	Final Walk-thru Inspection	1.00	0.00	1.00	23-Jan-19	23-Jan-19	18-Dec-17	18-Dec-17	0%	-287.00							■ Final Walk-thru Inspect
A3870	Project As-Built Drawings	5.00	0.00	5.00	23-Jan-19	29-Jan-19	26-Dec-17	01-Jan-18	0%	-281.00							■ Project As-Built Draw
A3880	Punch List	10.00	0.00	10.00	24-Jan-19	06-Feb-19	19-Dec-17	01-Jan-18	0%	-287.00							■ Punch List
A3890	Final Completion (1/2/18, 35 CD from SC)	0.00	0.00	0.00		15-Feb-19		01-Jan-18	0%	-294.00							◆ Final Complet

■ Actual Work     ■ Critical Remai...  
■ Remaining Work     ◆ Milestone