

City of Oak Harbor  
City Council Agenda Bill

Bill No. 5. c. i.  
Date: September 18, 2018  
Subject: Clean Water Facility Update

**FROM: Brett Arvidson, Project Manager**

**INITIALED AS APPROVED FOR SUBMITTAL TO THE COUNCIL BY:**

- Bob Severns, Mayor
- Blaine Oborn, City Administrator
- Patricia Soule, Finance Director
- Nikki Esparza, City Attorney, as to form

**RECOMMENDED ACTION**

**BACKGROUND / SUMMARY INFORMATION**

Clean Water Facility Project Monthly Report for August 2018

**LEGAL AUTHORITY**

City Council

**FISCAL IMPACT**

**PREVIOUS COUNCIL / BOARD / CITIZEN INPUT**

**ATTACHMENTS**

1. [Clean Water Facility Monthly Update - August 2018](#)

# Clean Water Facility Project

# Monthly

# Report *August 2018*



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City of Oak Harbor  
**Clean Water  
 Facility Project**



**MONTHLY PROGRESS REPORT**

**August 2018**

*The following report is a summary of construction phase activities and costs incurred that are being monitored by the project team as part of the Oak Harbor Clean Water Facility Project.*

**1. EXECUTIVE SUMMARY**

**Work Activities in August.** Photographs referenced below are located in Section 12 of this report.

- Interwest Construction installed water utilities, performed earthwork, and built curbs at Windjammer Park (see Photos #12, #21, #22, and #24 through #26), and Valley Electric and Pacific Earth Work installed buried electrical conduits (see Photo #34) and irrigation piping, (see Photos #23 and #46), respectively.
- Start-up activities continued. Vendors operated equipment and conducted operator training (see Photos #3, #4, #15, #32, #37, #40, and #43).
- University Mechanical continued to assemble a dryer in the biosolids building.
- Axiom installed GFRC cladding on the secondary treatment building (see Photos #16 and #44).

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See Section 3, *Work Performed this Month*, for additional information.

**Cost.** The total guaranteed maximum price for the clean water facility (including outfall pipeline) and Windjammer Park improvements is \$128,779,438 (including tax). After the City approves Hoffman Construction Company's payment request for the month of August, the total paid to date will be \$106,020,199 (including tax), which makes up 83% of Hoffman's total contract amount. See Section 8, *Pay Request and Contract Status*, for additional information.

**Schedule.** On Tuesday, August 21<sup>st</sup>, the *International Union of Operating Engineers Local 302* began a strike because of a wage rate dispute. Equipment operators did not report to work. The strike ended on September 6<sup>th</sup>. The strike impacted Hoffman's subcontractors work on the clean water facility, and Interwest Construction did not perform any civil work at Windjammer Park for almost two weeks. Start-up activities continued in August and will continue in September and October. Wastewater treatment is now expected to begin in October (in lieu of September). The clean water facility is expected to be complete by the end of 2018. The work at Windjammer Park is expected to be complete by May of 2019. See Section 11, *Schedule*, for additional information.

## 2. INTRODUCTION

**Background.** The City of Oak Harbor (City) operates a wastewater collection and treatment system that serves approximately 24,000 people who live within the City and on a U.S. Navy seaplane base. Wastewater was treated at a rotating biological contactor facility in the City, but is now being treated at a lagoon facility at the U.S. Navy seaplane base. The City must replace its aging wastewater treatment facility with a new facility that meets modern standards for reliability and performance.

**Planning and Design.** The City and a design consultant, Carollo Engineers (Carollo), finalized a wastewater facilities plan in August of 2013 (after three years of work) and a preliminary design submittal in November of 2013. Carollo then developed plans and specifications to 60% complete in June of 2015. Plans and specifications for process structures (i.e., headworks, secondary treatment, aeration basins, WAS storage, emergency generator, electrical, aeration blower, and solids) were advanced to 100% complete in June of 2016. Plans and specifications for an administration and maintenance building and an odor control structure were advanced to 100% complete in September and October of 2016, respectively. Plans and specifications for final site restoration (i.e., landscaping, sidewalks, and pavement) were advanced to 100% in December of 2017. Planning and design work for the clean water facility is now complete; however, Carollo has prepared a draft Reclaimed Water Engineering Report for submittal to the *State Department of Ecology*. Once approved, Carollo is expected to design additional disinfection facilities pertaining to reclaimed water, storage within the new clean water facility, and pumps to convey reclaimed water to Windjammer Park's irrigation system.

### **Alternative Public Works Contracting.**

The City completed an analysis in November 2013 that compared design-bid-build, design-build, and general contractor/ construction manager (GC/CM) contracting methods and proceeded to use the recommended method, which was GC/CM. The City gained permission from the Washington State Capital Project Advisory Review Board in March of 2014 to complete the project by means of GC/CM. The City evaluated five proposals from GC/CM firms and then shortlisted three firms for an interview based on a fee proposal. Hoffman Construction Company of Washington (Hoffman) was selected as the GC/CM in July of 2014.



Bubblers in an Aeration Basin



**Agreement between City and GC/CM.** The City and Hoffman executed a *Standard Form of Agreement Between Owner and Construction Manager as Constructor* (AIA Document A133-2009) on July 1, 2014. This agreement defines compensation and payment for preconstruction phase services such as value engineering, cost estimating, and constructability reviews, which are paid for on an hourly rate basis up to a total amount not to exceed \$790,050 (including sales tax). This agreement also defines compensation for construction phase services such as the performance of the work of a component, which is defined by a guaranteed maximum price amendment (AIA Document A133-2009 Exhibit A) to the original agreement. Guaranteed maximum price amendments (GMPAs) define the costs of the work of a component. The work of a component includes subcontractor bid packages, negotiated self-performed work, negotiated support services, risk and design contingencies, and services necessitated by specified general conditions (AIA Document A201-2007). Hoffman's fee of 4.28% (including business and occupation taxes and the cost of personal liability and property damage insurance and bonds) is applied to the cost of work of a component. Currently the City Council has approved the following 13 GMPAs:

•	GMPA No. 1	MBR and UV System Equipment and Support	\$2,553,317
•	GMPA No. 2	Outfall Replacement	\$1,991,249 <sup>(1)</sup>
•	GMPA No. 3	Site Prep A – Excavation and Archaeological Survey	\$836,130
•	GMPA No. 4	Site Prep B – Utilities, Shoring, Demolition, Stone Columns	\$5,109,549
•	GMPA No. 5	Pre-purchase of Biosolids Dryer	\$2,028,222
•	GMPA No. 6	Site Prep C – Micropiles	\$3,966,503
•	GMPA No. 7	Deep Foundation Work at Area 30 and Misc Changes	\$9,355,968
•	GMPA No. 8	Area 20 and Remainder of Area 30 Concrete Work	\$10,824,756
•	GMPA No. 9	Electrical, Instrumentation & Controls, Process Mechanical	\$33,265,589
•	GMPA No. 10	Phase 3 Self-perform Concrete; RBC Plant Demo; Misc Earthwork	\$5,373,040
•	GMPA No. 11	Superstructure Construction – Bid Package 6 Results	\$22,023,790
•	GMPA No. 12	Odor Control System	\$4,353,876
•	GMPA No. 13	Civil Site Improvements (Clean Water Facility)	\$5,837,305 <sup>(2)</sup>
•	GMPA No. 13	Windjammer Park Improvements	<u>\$10,226,233<sup>(2)</sup></u>
		Subtotal	\$117,745,527
		WA State Sales Tax (8.7%)	<u>\$10,243,861</u>
		Subtotal	\$127,989,388
		Preconstruction Phase Services	<u>\$790,050</u>
		Total Guaranteed Maximum Price (GMP)	\$128,779,438 <sup>(1)</sup>

Notes:

1. Outfall replacement costs are not included in construction expenditures. See Attachment A, *Project Financial Report*, for additional information.
2. GMPA No. 13 is shown subdivided to show the approximate cost to finish the Clean Water Facility relative to the approximate cost of Windjammer Park Improvements.

See Section 8, *Pay Request and Contract Status*, for additional information pertaining to the current status of approved GMPAs.

**Funding.** The City is funding the project, in part, by means of State Revolving Fund (SRF) low-interest loans, cash, grants, and proceeds from bond sales. The City has obtained over \$97 million in SRF loans and \$8.5 million in grants. The City, with help from its bond attorneys and its financial advisor, *The PFM Group*, put the sale of over \$25 million in bonds out to bid on the bond market on April 19, 2016. *Robert Baird & Company* was the successful bidder with an interest rate of 3.43%. See Attachment A, *Project Financial Report*, for additional information pertaining to funding.

### 3. WORK PERFORMED THIS MONTH

Photographs that are referenced in this section are located in Section 12 of this report.

**Pre-construction Services.** Preconstruction services are complete.

**Windjammer Park Design.** The design of clean water facility site restoration work and Windjammer Park improvements is complete. All permits have been obtained except for a City irrigation permit.

**SCADA System Development.** Throughout the month of August, systems integration engineers for Carollo Engineers (i.e., Jeff Janowiak and Elise Moore) were on site working with Valley Electric, Honeywell, QualiTech, Suez Water Technologies, and other subcontractors and equipment vendors to verify that process control modules and network panels are communicating properly with process equipment.

**Start-up Activities.** On August 8<sup>th</sup>, a representative from Landia operated mixers in aeration basins and conducted operator training (see Photo #3). On August 9<sup>th</sup>, representatives from N.E. Controls and Aerzen operated aeration air blowers and conducted operator training (see Photo #4). On August 15<sup>th</sup>, Valley Electric and its subcontractor, Red Hawk Fire Protection, operated a fire alarm system in the administration building for representatives of the Oak Harbor Fire Department (see Photo #13). On August 16<sup>th</sup>, a representative of Beaver Equipment Company operated a bubbler system in the WAS storage tanks and aeration basins and conducted operator training (see Photos #15 and #43). On August 21<sup>st</sup>, a technician for QualiTech calibrated gas sensors (see Photo #27). On August 23<sup>rd</sup>, a representative of Cummins Corporation performed a load test on an engine generator and conducted operator training (see Photo #32). During the last week of August, representatives for Apsco and Whitney Equipment Company inspected WAS transfer pumps (see Photo #35) and influent pumps (see Photo #40), respectively, and verified that the pumps are ready to operate. Two engineers for Suez Water Technologies and Solutions were on site full-time to prepare membrane equipment for start-up (see Photo #37). Hoffman continued to conduct weekly start-up coordination meetings with its subcontractors and Carollo Engineers.

**GMPA No. 1 – MBR System and UV Disinfection Equipment (procurement) and Engineering Support.** Work on this GMPA is approximately 83% complete. Ultraviolet reactors, membrane cassettes, and all other MBR and UV system equipment have been delivered to the job site. Testing, training, and commissioning remain to be completed before this GMPA is deemed complete.

**GMPA No. 2 – Outfall Replacement.** Work on this GMPA is complete.

**GMPA No. 3 – Site Prep A.** Work on this GMPA is complete.

**GMPA No. 4 – Site Prep B: Utilities, Demolition, Stone Columns, and Shoring.** Work on this GMPA is complete.

**GMPA No. 5 – Biosolids Dryer (procurement).** This GMPA is approximately 85% complete. All but one shipment of components of the biosolids belt dryer system have arrived on site. One representative of Haarslev continued to work on site full time.

**GMPA No. 6 – Site Prep C: Micropiles.** Work on this GMPA is complete.

**GMPA No. 7 – Deep Concrete Work at Area 30 and Miscellaneous Changes.** Work on this GMPA is approximately 98% complete. No work occurred on this GMPA this past month.

**GMA No. 8 – Area 20 and Remainder of Area 30 Concrete Work.** Work on this GMPA is approximately 98% complete. Hoffman Structures pressure washed concrete floors in several process structures and continued to repair minor imperfections in concrete.

**GMPA No. 9 – Mechanical, Electrical, and Process Systems.** Work on this GMPA is approximately 94% complete. Valley Electric installed disconnect switches, local and vendor control panels, conduits, and conductors for influent pumps, motor-actuated slide gates, coarse and fine screen conveyors and washer/compactors, a grit basin mixer, and grit pumps in the headworks building (see Photos #30, #31, #39, and #42). Valley Electric terminated conductors at motor starters, vendor control panels, a process control module, and a network panel in the electrical and control rooms in the headworks building. Valley Electric installed conduits and conductors for motor-actuated slide gates and valves, fire alarm and lighting systems, a coiling door, pump motors, instrumentation, and other equipment in the secondary treatment building and in the gallery under the secondary treatment building (see Photos #5, #7, and #17). Valley Electric continued to terminate conductors at

motor starters, process control modules (PCMs), and control panels in the electrical building (see Photo #10). Valley Electric continued to install conduits, conductors, and electrical equipment in the administration building including luminaires and emergency lighting fixtures. Valley Electric installed exterior light fixtures at the administration building (see Photo #33). Rockwell Automation continued to program motor starters in motor control centers in the electrical and headworks buildings. EC Electric installed conduits and conductors for HVAC equipment in the administration building. University Mechanical installed influent pumps and associated discharge piping, coarse and fine screen conveyors and washer/compactors, a grit basin mixer, and grit pumps in the headworks building. University Mechanical began labeling piping systems in the headworks and secondary treatment buildings (see Photo #28). University Mechanical continued to install dryer equipment in the biosolids building. Delta Corporation continued to install fiber reinforced plastic (FRP) foul air piping and HVAC ductwork and equipment in the secondary treatment building and in the headworks building.



Process Control Module

**GMPA No. 10 – Concrete, Stone Columns, Compaction Grouting, and Shoring for Non-process Structures.** Work on this GMPA is 99% complete. Interwest Construction performed minor earthwork activities in the inner yard between the biosolids building and headworks.

**GMPA No. 11 – Superstructure Construction.** Work on this GMPA is approximately 94% complete. University Mechanical modified piping between an air-to-water heat pump in the generator yard and hot and cold water storage tanks in the mechanical room in the administration building. University Mechanical installed appliances in the administration building. Steelkorr installed aluminum tread plates in the headworks building and in the secondary treatment building (see Photo #29). Steelkorr installed handrails in the headworks building (see Photo #41). Pacific Glass installed “etched” glass windows at the biosolids, electrical, aeration blower, and secondary treatment buildings. A small crew for Penington Painting performed miscellaneous painting work in the administration and maintenance buildings and several process buildings. Axiom installed metal furring, rain screen, and glass-fiber reinforced concrete (GFRC) cladding on the upper exterior of the secondary treatment building (see Photos #16 and #44).



**GMPA No. 12 – Odor Control System.** Work on this GMPA is approximately 80% complete. University Mechanical installed PVC process piping and air distribution plates inside the odor control structure (see Photos #6 and #11). University Mechanical installed recirculation pumps (see Photo #38). Painters for Honeycutt's, Inc., repaired the coating system at pipe penetrations (see Photo #45).

**GMPA No. 13 – Civil Site Work.** Work on this portion of GMPA No. 13 is approximately 20% complete. Interwest Construction finished grading an "inner yard" area between the process buildings and the administration and maintenance building. Interwest's subcontractor, Lakeside Industries, paved the inner yard (see Photos #18, #19, and #20). Interwest Construction built formwork and placed reinforcing steel and concrete for a retaining wall next to the west sides of the aeration blower and electrical buildings and the generator yard (see Photos #8, #9, #14, and #36).

**GMPA No. 13 – Windjammer Park Improvements.** Work on this portion of GMPA No. 13 is approximately 20% complete. Interwest Construction graded and compacted imported base material at the west end of the park where new curbs and a parking lot are located (see Photos #21, #22, #24, and #25). Interwest's subcontractor, S&S Construction, utilized a slip-form paver to build concrete curbs around the perimeter of the parking lot (see Photo #26). Interwest Construction installed small diameter PVC water piping at the west end of the park (see Photo #12). Pacific Earth Works continued to install 6-inch PVC irrigation system piping (see Photos #23 and #46), and Valley Electric continued to install buried PVC electrical conduits (see Photo #34). P&L General Contractors, Inc., and their subcontractor, Valdez Construction, placed imported base material for the east and west kitchens and the pavillion.

#### **4. QUALITY ASSURANCE**

One inspector for the City's subconsultant, KBA, performed full-time inspection. Special inspectors for KBA's subconsultant, GeoTest, performed part-time specialty inspection on an as-requested basis. Representatives from Hoffman performed part-time inspection on a daily basis. Hoffman conducted daily quality assurance meetings with its subcontractors and with the KBA inspector. Hoffman conducted a weekly quality assurance meeting with its subcontractors, the KBA inspector, and a Resident Engineer from Carollo. Archaeologists from ERCI were on-site during excavation work looking for cultural resources. Inspectors for the State Department of Labor & Industries inspected electrical work on an as-requested basis. Architects from MWA Architects, Ryan Roepke and Chad Sanderson, and an HVAC engineer from Interface Engineering, Troy Lowell, were on site on August 20<sup>th</sup> and 21<sup>st</sup> to inspect the administration and maintenance building. One of the architects also inspected the exteriors of the process buildings. Oak Harbor Fire Department representative Ray Merrill was on site on August 15<sup>th</sup> to witness a demonstration of a fire alarm system in the administration building (see Photo #13). Inspectors produced written daily reports that were filed on the City's server. KBA conducted coordination meetings on August 2<sup>nd</sup>, 16<sup>th</sup>, and 30<sup>th</sup> with City Building Official Scott King and representatives from Hoffman and Carollo.

## 5. DOCUMENT TRACKING

See Table 5.1 below for the overall status of submittals and requests for information:

Table 5.1 Document Tracking	August 2018		Project to Date	
	Number Received	Number of Reviews	Number Received	Number of Reviews
Submittals	32	18	1,365	1,350
Requests for Information	41	39	1,221	1,218

## 6. PUBLIC OUTREACH

The City adopted a proposed good neighbor plan when the City Council approved Resolution 15-28 on September 1, 2015. The City continued to inform the community by means of the following activities:

- Weekly Oak Harbor Clean Water Facility construction updates (by means of e-mail)
- Website updates: <http://www.oakharborcleanwater.org>
- Signage at the job-site and at Windjammer Park
- Construction office drop-in hours on the 2<sup>nd</sup> and 4<sup>th</sup> Monday of the month
- Answering a 24-hour project information and construction hot-line

## 7. SAFETY

Hoffman reported the following safety statistics at the end of August:

- Manhours worked to date: 470,000
- Recordable injuries to date: 10
- Lost time injuries to date: 2
- Average number of craft workers on site: 100

## 8. PAY REQUEST AND CONTRACT STATUS

**Pre-construction phase services.** Hoffman submitted its last progress payment application for pre-construction services in January of 2017. Total applications for payment to date for preconstruction phase services add up to \$787,905 (including sales tax) representing 99% of the current agreement amount of \$790,050 (including sales tax).

Table 8.1 Preconstruction Services	Original Agreement Price <sup>(1)</sup>	Adjustments and Change Orders	Current Agreement Price	Total Payments to Date	Remaining Balance
Pre-construction Services	726,817	0	726,817	724,844	1,973
State Sales Tax (8.7%)	63,233	0	63,233	63,061	172
Total	790,050	0	790,050	787,905	2,145

Notes:

1. An agenda bill approved by City Council on July 1, 2014, included an additional \$250,000 for optional pre-construction services for a current agreement price of \$790,050 (including sales tax).

**Construction phase services.** Hoffman submitted a progress payment application for the month of July 2018, for \$3,632,668 (including sales tax). The progress payment application was reviewed and processed in August. See Attachment B, *Authorization for Payment*, for additional information. Total applications for payment to date for construction phase services through July are \$103,472,423 representing 80.8% of the current agreement amount of \$127,989,388. See Table 8.2 below for additional information.

<b>Table 8.2 Construction Phase Services</b>	<b>Original Guaranteed Maximum Price</b>	<b>Adjustments and Change Orders<sup>(1)</sup></b>	<b>Current Guaranteed Maximum Price</b>	<b>Total Payments to Date</b>	<b>Remaining Balance</b>
GMPA No. 1 Work:	2,448,520	0	2,448,520	2,039,372	409,148
GMPA No. 2 Work:	1,427,000	5,642	1,432,642	1,432,642	0
GMPA No. 3 Work:	627,347	(199,915)	427,432	292,799	134,633
GMPA No. 4 Work:	3,919,735	235,558	4,155,293	4,155,293	0
GMPA No. 5 Work:	1,879,205	0	1,879,205	1,446,990	432,215
GMPA No. 6 Work:	2,565,820	(331,379)	2,234,441	2,231,945	2,496
GMPA No. 7 Work:	6,239,185	25,680	6,264,865	6,143,138	121,727
GMPA No. 8 Work:	7,024,188	774,391	7,798,579	7,664,465	134,113
GMPA No. 9 Work:	30,148,712	1,700,071	31,848,783	29,612,257	2,236,526
GMPA No. 10 Work:	4,809,815	1,525,673	6,335,488	6,335,488	0
GMPA No. 11 Work:	17,934,490	903,170	18,837,660	17,126,557	1,711,103
GMPA No. 12 Work:	3,957,515	11,275	3,968,790	3,037,598	931,193
GMPA No. 13 Work (CWF):	4,580,898	(860,042)	3,720,856	599,551	3,121,305
GMPA No. 13 Work (WJP):	9,268,436	(64,691)	9,203,746	783,027	8,420,719
Negotiated Support Services	8,339,260	0	8,339,260	6,368,742	1,970,518
Specified General Conditions	2,392,490	0	2,392,490	2,014,008	378,482
Subtotal	107,562,616	3,725,432	111,288,048	91,283,872	20,004,177
GC/CM's Risk Contingency	3,492,360	(2,104,948)	1,387,412		1,387,412 <sup>(2)</sup>
Owner's Risk Contingency	1,875,883	(1,620,484)	237,399		237,399 <sup>(2)</sup>
Subtotal	5,350,243	(3,725,432)	1,624,811		1,624,811
GC/CM fee (4.28%)	4,832,668	0	4,832,668	3,906,950	925,718
Subtotal	117,745,527	0	117,745,527	95,190,822	22,554,705
State Sales Tax (8.7%)	10,243,861	0	10,243,861	8,281,601	1,962,259
Total	127,989,388	0	127,989,388	103,472,423	24,516,965

Notes:

1. There is only one change order to date. The change order transferred \$202,630 from GMPA No. 3 to GMPA No. 4. All other adjustments are due to transfers to and from contingency funds. See Section 9, *Contingencies and Cost Change Memorandums*, and Section 10, *Change Orders*, for additional information.
2. Remaining balance does not include encumbrances that were approved by the City in August. See Table 9.3 for additional information.

## 9. CONTINGENCIES AND COST CHANGE MEMORANDUMS

**Contingencies.** A GC/CM risk contingency is a fund that is made available for the GC/CM's (i.e., Hoffman's) exclusive use to pay for a variety of project issues such as, but not limited to, ambiguities in construction documents, buy-out errors or shortfalls, scope gaps, subcontractor performance or failure, and expediting costs for critical materials. A GC/CM risk contingency is included in 12 of the 13 guaranteed maximum price amendments (GMPAs) in amounts equal to 3.5% of the value of the work in the GMPA.

An owner design contingency is a fund that is made available for the owner's (i.e., the City's) exclusive use to pay for owner-directed design or scope changes and unforeseen or differing site conditions. An owner design contingency is included in eight of the 13 GMPAs in amounts equal to 2.0% of the value of the work in the GMPA.

Hoffman may use either of these funds only with the City's prior written consent. Hoffman must give the City notice and provide supporting cost backup when applying for the use of these funds. The notice and supporting cost backup are defined, herein, as a cost change memorandum.

Any balance remaining in these funds at the end of the project is returned to the City.

See Section 2.2.4.1 of the *Standard Form of Agreement Between Owner and Construction Manager as Constructor* for additional information pertaining to contingencies. The current status of the GC/CM risk and owner design contingency funds at the end of July are indicated below in Tables 9.1 and 9.2.

<b>Table 9.1 GC/CM Risk Contingency</b>	GC/CM's Original Risk Contingency <sup>(3)</sup>	Previous Adjustments	Adjustments this Past Month	GC/CM's Current Risk Contingency <sup>(1)(2)</sup>
GC/CM Risk Contingency	3,492,360	(2,032,650)	(207,032)	1,252,678

<b>Table 9.2 Owner Design Contingency</b>	Owner's Original Design Contingency <sup>(4)</sup>	Previous Adjustments	Adjustments this Past Month	Owner's Current Design Contingency <sup>(1)(2)</sup>
Owner Design Contingency	1,857,883	(1,649,083)	61,908	270,708

Notes:

1. Excluding profit and tax.
2. Balance does not include encumbrances that were approved by the City in August. See Table 9.3 on the next page for additional information.
3. GMPA No. 13 added \$404,835 to GC/CM risk contingency.
4. GMPA No. 13 added \$269,890 to Owner design contingency.

**Cost change memorandums.** Hoffman prepares a cost change memorandum (CCM) to request the City's written consent to use its own risk contingency or the owner's design contingency to cover those costs that are deemed reimbursible in accordance with Section 2.2.4.1 of the *Standard Form of Agreement Between Owner and Construction Manager as Constructor*. The City has reviewed and approved a total of 349 CCMs through August 2018. See Tables 9.1 and 9.2 on the previous page for additional information. The following CCMs were reviewed and tentatively approved by the City in August.

**Table 9.3 – Cost Change Memorandums**

<u>CCM</u>	<u>Description</u>	<u>Transfer</u>	<u>Amount<sup>(1)</sup></u>
387	Additions to Dryer Feed Hopper	From owner contingency to GMPA #11	\$ 24,274
398.4	Self-performed Concrete	From GC/CM risk contingency to GMPA #10	\$ 19,020
402	Premium Time for Mechanical	From GC/CM risk contingency to GMPA #9	\$ 6,184
414	Bollards at Process Structures	From GC/CM risk contingency to GMPA #11	\$ 13,462
418	Premium Time for Mechanical	From GC/CM risk contingency to GMPA #12	\$ 577
439.1	Architectural Shapes	From owner contingency to GMPA #11	\$ 484
447.1	Miscellaneous Earthwork	From GC/CM risk contingency to GMPA #10	\$ 19,490
473	Grout at Trench Fan Coils	From owner contingency to GMPA #11	\$ 4,302
475	Flashing at Electrical Building	From owner contingency to GMPA #11	\$ 904
478	Concrete Work at Area 30	From GC/CM risk contingency to GMPA #11	\$ 556
486	Reduce Rigid Insulation	From GMPA #11 to owner contingency	\$ 364
495	Acid Etched Windows	Draw from GMPA #11 allowance	\$ 43,000
495	Acid Etched Windows	From GC/CM risk contingency to GMPA #11	\$ 2,714
498	Equipment Pads	From GC/CM risk contingency to GMPA #11	\$ 1,819
499	Insulation in Door Frames	From GC/CM risk contingency to GMPA #11	\$ 2,053
502	Grind old Pavement in Park	From GC/CM risk contingency to GMPA #13	\$ 4,235
504	Project-wide Signage Package	From GC/CM risk contingency to GMPA #11	\$ 29,728
509	Escutcheons at Light Poles	From owner contingency to GMPA #13	\$ 3,111
510	Piping for Drinking Fountain	From owner contingency to GMPA #13	\$ 1,643
522	Escalation Kitchen & Pavillion	From GC/CM risk contingency to GMPA #13	\$ 32,563
524	Gates from Aluminum to Steel	From GMPA #13 to owner contingency	\$ 67,665
527	Damp Proofing at Foundation	From GC/CM risk contingency to GMPA #11	\$ 2,333

Note:

1. Excluding profit and tax.



## 10. CHANGE ORDERS

**Change orders.** Change orders that adjust a guaranteed maximum price amendment (GMPA) shall be made principally for the following events:

- Scope changes
- Concealed or unknown conditions
- Regulatory agency changes
- Significant design errors or omissions
- Changes required by governmental inspectors to meet requirements beyond those contained in regulations
- Allowance adjustment

See Section 2.2.4.2 of the *Standard Form of Agreement Between Owner and Construction Manager as Constructor* for additional information pertaining to change orders. The current status of change orders adjusting GMPAs are indicated in Table 10.1 below.

<b>Table 10.1 Change Orders</b>	Original GMPA	Previous Change Orders	Change Orders this Month	Current GMPA <sup>(1)</sup>
GMPA No. 1	2,553,317	0	0	2,553,317
GMPA No. 2	1,991,249	0	0	1,991,249
GMPA No. 3	836,130	-202,630	0	633,500
GMPA No. 4	5,109,549	202,630	0	5,312,179
GMPA No. 5	2,028,222	0	0	2,028,222
GMPA No. 6	3,966,503	0	0	3,966,503
GMPA No. 7	9,335,968	0	0	9,335,968
GMPA No. 8	10,824,756	0	0	10,824,756
GMPA No. 9	33,265,589	0	0	33,265,589
GMPA No. 10	5,373,040	0	0	5,373,040
GMPA No. 11	22,023,790	0	0	22,023,790
GMPA No. 12	4,353,876	0	0	4,353,876
GMPA No. 13 – CWF <sup>(2)</sup>	5,837,305	0	0	5,837,305
GMPA No. 13 – WJP <sup>(2)</sup>	10,226,233	0	0	10,226,233
Subtotal	117,745,527	0	0	117,745,527
State Sales Tax (8.7%)	10,243,861	0	0	10,243,861
Total	127,989,388	0	0	127,989,388

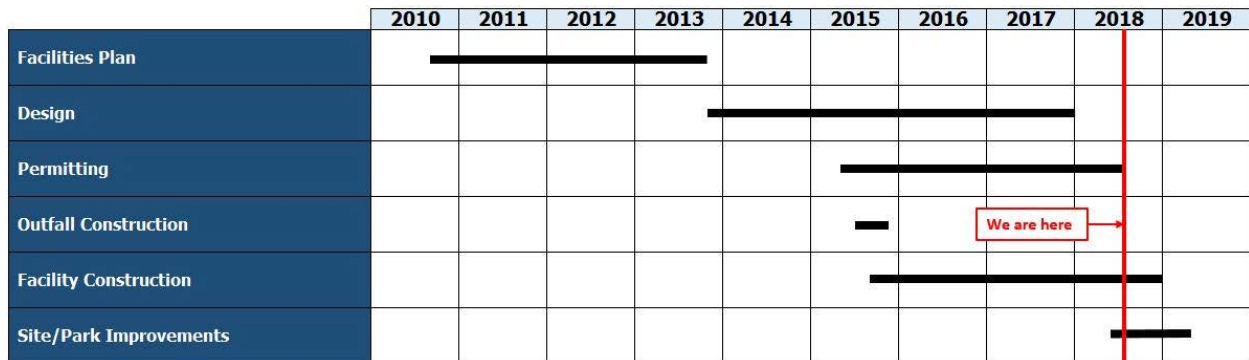
Notes:

1. Excluding transfers of contingency between GMPAs.
2. GMPA No. 13 is shown subdivided to show the approximate cost to finish the Clean Water Facility relative to the approximate cost of Windjammer Park Improvements.

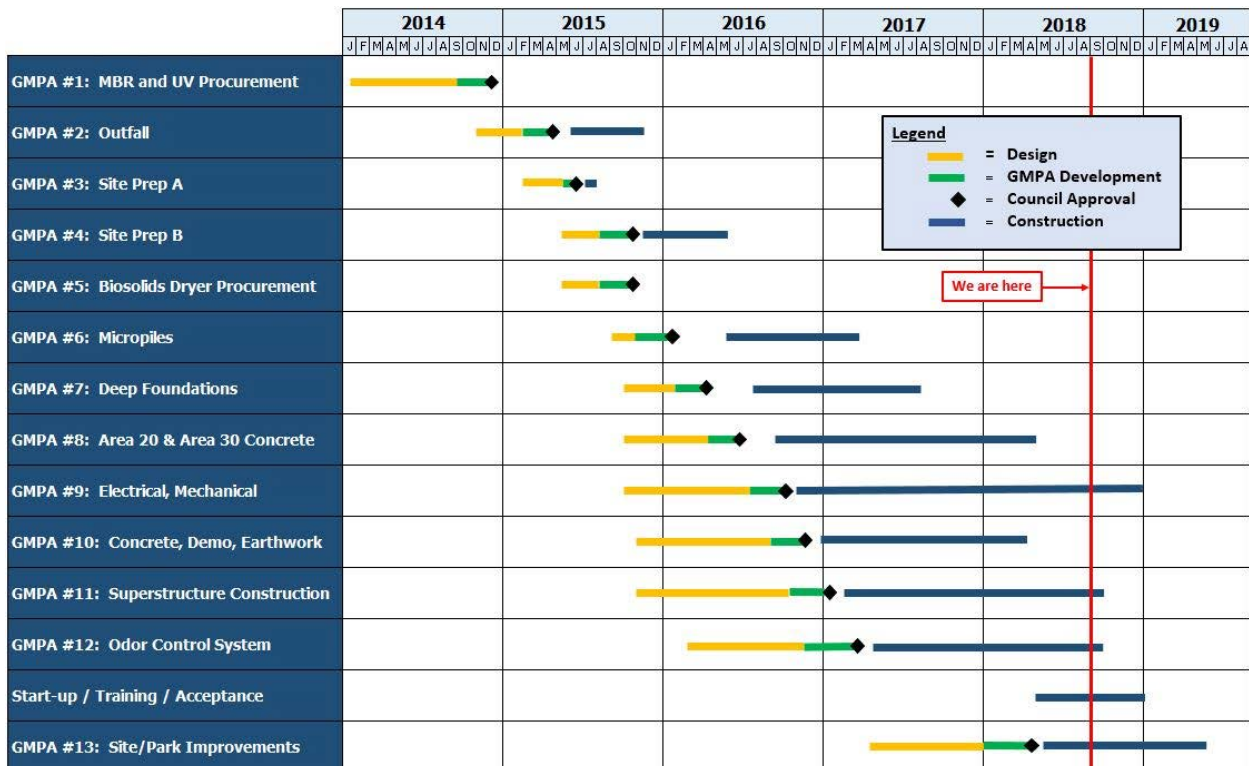
# 11. SCHEDULE

The overall project schedule and construction schedule shown below are based on the latest project construction schedule developed by Hoffman.

**Table 10.1 – Overall Project Schedule**



**Table 10.2 – Construction Schedule**



12. PHOTOGRAPHS



Photo #1

Aerial photo of Windjammer Park and the Clean Water Facility job site (looking north) on August 4<sup>th</sup>, 2018, ten weeks after demolition work at Windjammer Park began.



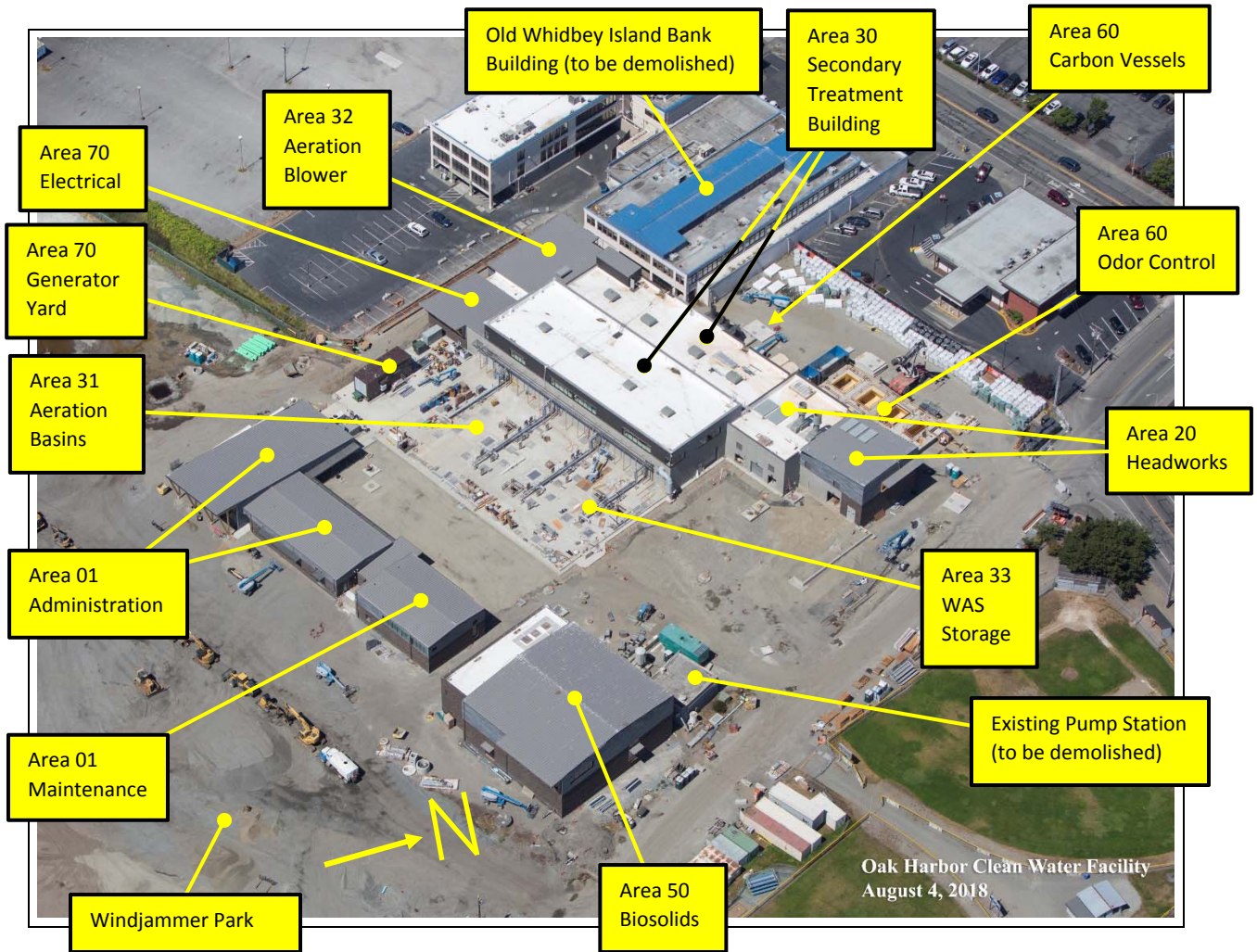


Photo #2

Aerial photo of the Clean Water Facility job site (looking northwest) on August 4<sup>th</sup>, 2018.



Photo #3

Area 31 Aeration Basins (looking west) on Wednesday, August 8<sup>th</sup>.

Left: A pipefitter for University Mechanical is utilizing a portable davit crane to lift a mixer from the bottom of an aeration basin.

Bottom right: Landia representative Ken Jacobs is conducting operator training.

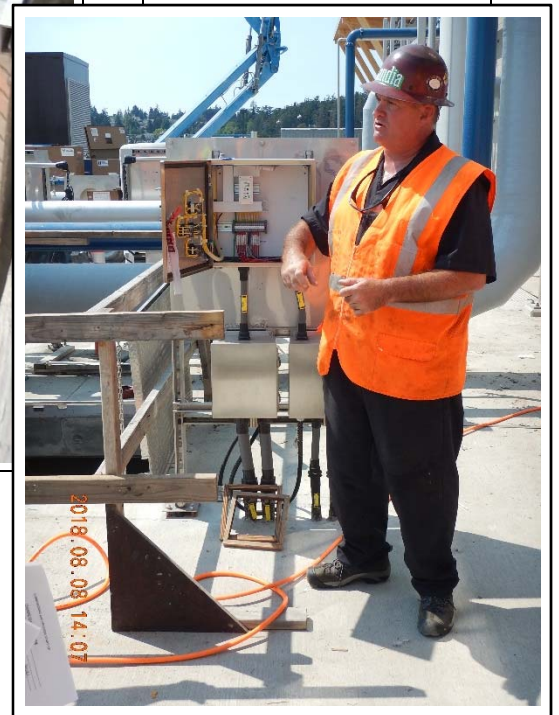






Photo #4

Top: Area 70 Electrical Building (looking west) on Thursday, August 9<sup>th</sup>.

Bottom: Area 32 Aeration Blower Building (looking west) on Thursday, August 9<sup>th</sup>.

An engineer from N.E. Controls, Nick Radley (top), and a field service technician from Aerzen, Donna Conrad (bottom), are conducting operator training pertaining to aeration blowers.





Photo #5

Area 36 UV Disinfection  
(looking northeast) on  
Thursday, August 9<sup>th</sup>.

An electrician for Valley  
Electric is terminating  
conductors at a  
motor-operated valve  
actuator.





Photo #6

Area 60 Odor Control  
(looking west) on Friday,  
August 10<sup>th</sup>.

Pipefitters are installing  
PVC process piping in the  
odor control structure.

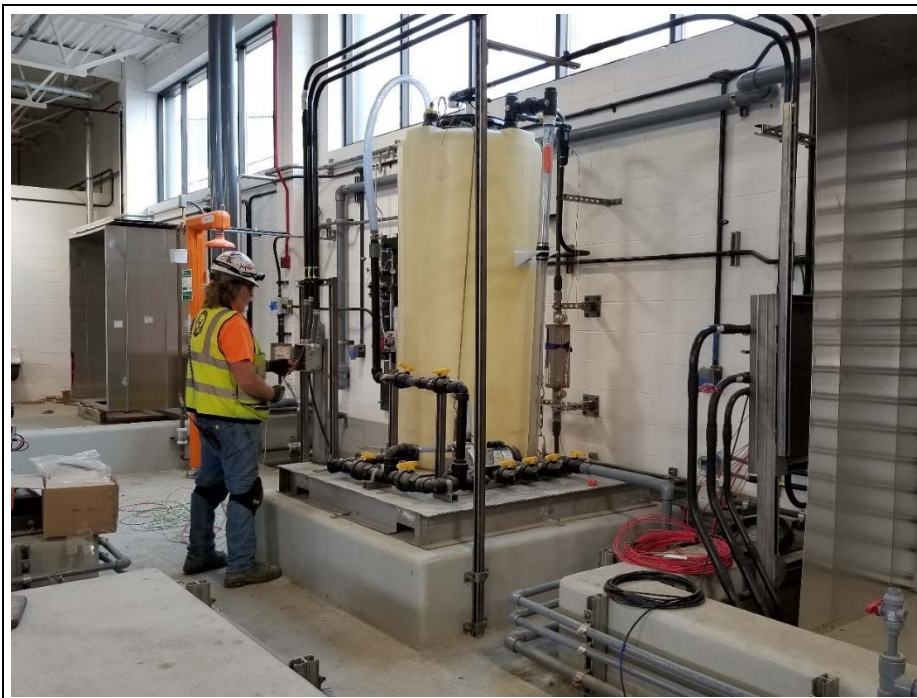


Photo #7

Area 37 Chemical Facilities  
(looking northwest) on  
Monday, August 13<sup>th</sup>.

An electrician for Valley  
Electric is pulling  
conductors to a junction  
box next to a citrus acid  
tank.



Photo #8

Area adjacent to west side of Aeration Blower and Electrical Buildings (looking south) on Monday, August 13<sup>th</sup>.

Left: Carpenters for Interwest Construction are building formwork for a retaining wall.

Bottom: A carpenter is attaching form liner to formwork so the resulting architectural concrete surface treatment will resemble old timber.



Photo #9

Area adjacent to west side of Area 70 Generator Yard (looking southwest) on Tuesday, August 14<sup>th</sup>.

Carpenters for Interwest Construction are placing concrete for a footing for a retaining wall.





Photo #10

Area 70 Electrical Building  
(looking southwest in the  
control room) Tuesday,  
August 14<sup>th</sup>.

An electrician for Valley  
Electric is terminating  
conductors at a process  
control module (PCM).



Photo #11

Area 60 Odor Control  
(looking east) on Tuesday,  
August 14<sup>th</sup>.

A pipefitter for University  
Mechanical is installing air  
distribution plates in the  
odor control structure.





Photo #12

Southwest end of Windjammer Park (looking west) on Tuesday, August 14<sup>th</sup>.

Laborers and pipelayers for Interwest Construction are installing 2-inch PVC water piping in a trench.



Photo #13

Area 01 Administration Building (looking east in the SCADA room) on Wednesday, August 15<sup>th</sup>.

An electrician for Valley Electric (left) and Oak Harbor Fire Marshall Ray Merrill inspecting an inverter that “inverts” direct current to alternating current (AC) to power emergency lighting systems during failure of normal AC power.





Photo #14

Area adjacent to the west side of Area 70 Generator Yard (looking north) on Wednesday, August 15<sup>th</sup>.

Carpenters for Interwest Construction are utilizing a truck-mounted concrete pump and hydraulic actuated boom to place concrete for a retaining wall.



Photo #15

Area 31 Aeration Basins (looking west) on Thursday, August 16<sup>th</sup>.

An engineer for Beaver Equipment Company, Jared Van Putten (right, in yellow vest), is conducting operator training pertaining to the bubbler system (seen in foreground) for the City's operations staff (left).



Photo #16

Area 30 Secondary Treatment Building (looking north) on Thursday, August 16<sup>th</sup>.

Top: Sheet metal workers for Axiom are installing glass-fiber reinforced concrete (GFRC) cladding

Bottom: A sheet metal worker for Axiom is cutting sections of GFRC cladding.

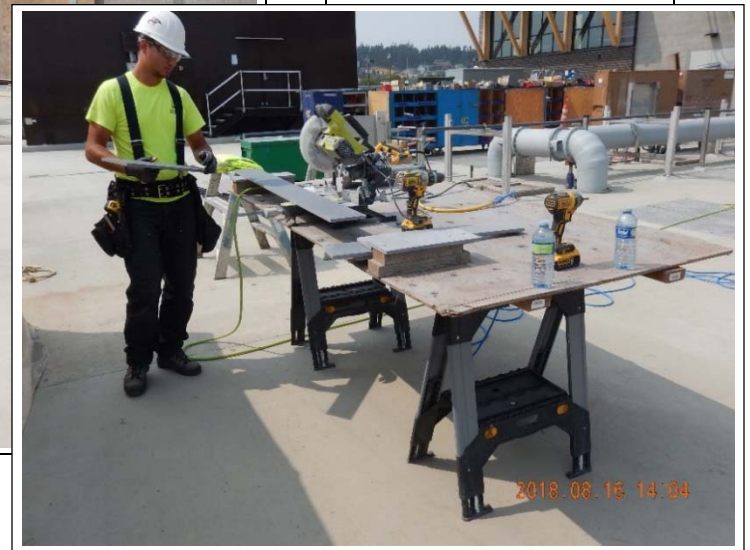






Photo #17

Area 30 Secondary Treatment Building (looking northeast) on Friday, October 17th.

Left: An electrician for Valley Electric is attaching a smoke detector to a section of fiber-reinforced plastic (FRP) exhaust fan duct.

Bottom: A sheet metal worker for Delta Technology Corporation is installing the section of FRP duct with the smoke detector.

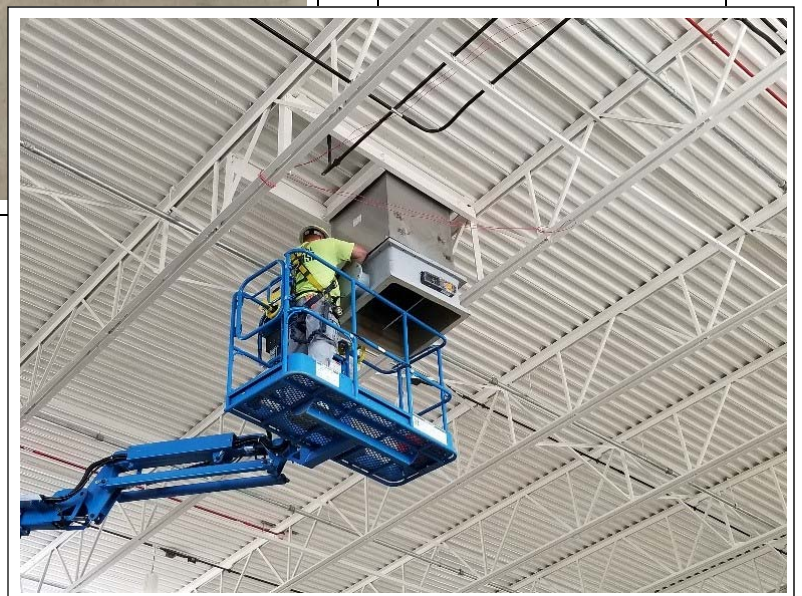




Photo #18

Area 50 Biosolids Building (looking southeast from the roof of Headworks) on Friday, August 17<sup>th</sup>.

Top Photo: Before asphalt paving begins at the north side of the biosolids building.

Bottom Photo: After Lakeside Industries places an initial lift of asphalt pavement at the north side of the biosolids building.





Photo #19

Area 01 – Administration and Maintenance Building (looking southeast) on Friday, August 17<sup>th</sup>.

Workers for Lakeside Industries are utilizing a BLAW-KNOX asphalt paving machine to place a lift of asphalt pavement in the inner yard.

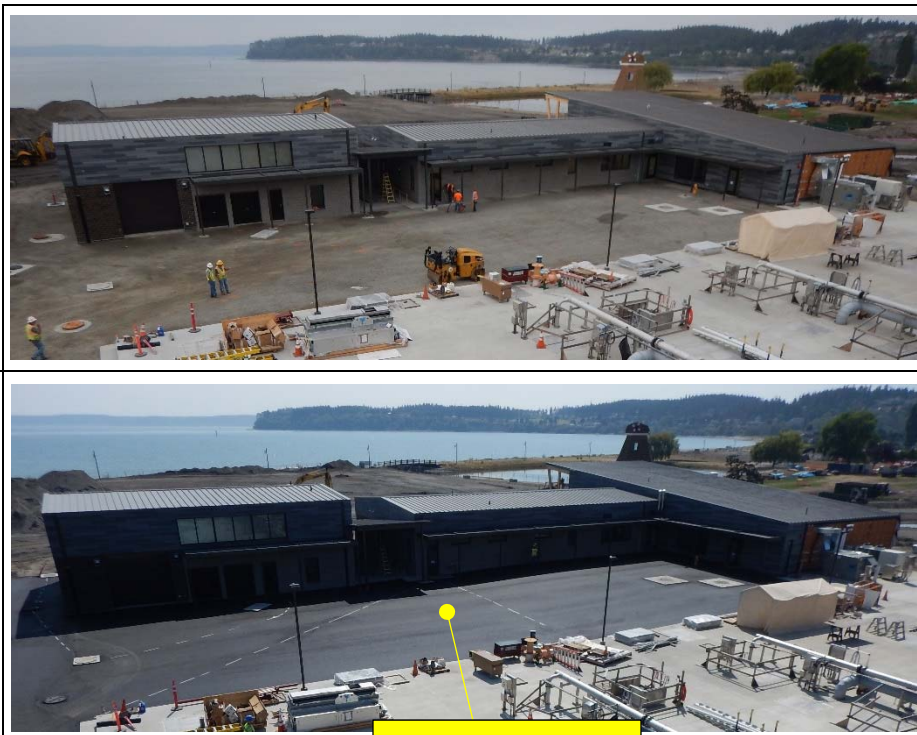


Photo #20

Area 01 Administration and Maintenance Building (looking southwest from the roof of the secondary treatment building) on Friday, August 17<sup>th</sup>.

Top Photo: Before asphalt paving begins at the north side of the administration and maintenance building.

Bottom Photo: After Lakeside Industries placed an initial lift of asphalt pavement at the north side of the administration and maintenance building.

New Asphalt Pavement



Photo #21

Northwest corner of Windjammer Park (looking east) on Friday, August 17<sup>th</sup>.

Miles Sand and Gravel is delivering base material for a new parking lot.



Photo #22

Northwest corner of Windjammer Park (looking west) on Friday, August 17<sup>th</sup>.

An operator for Interwest Construction is utilizing a vibratory smooth drum roller to compact base material for a new parking lot.



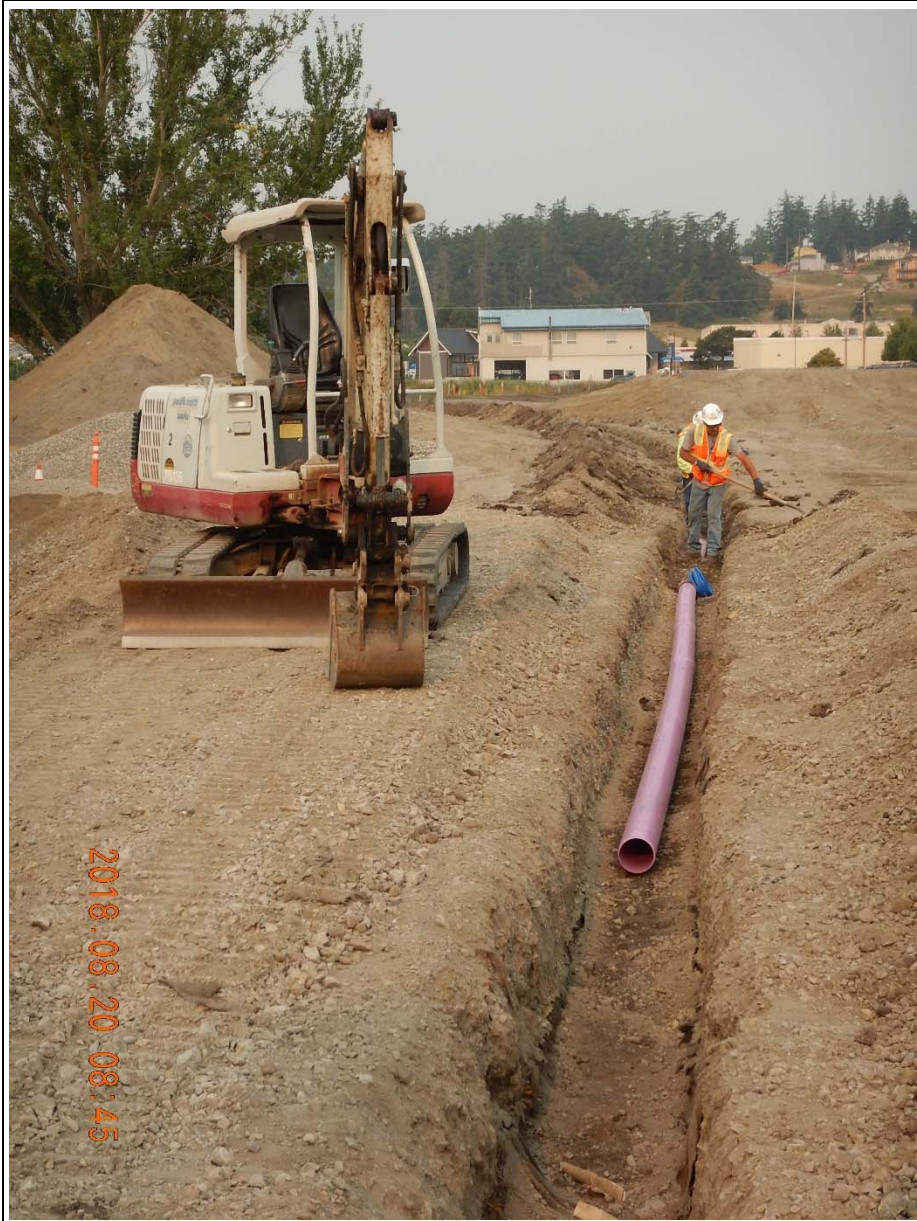


Photo #23

North end of Windjammer Park (looking west) on Monday, August 20<sup>th</sup>.

Laborers for Pacific Earth Works are installing a 6-inch PVC irrigation pipeline.



Photo #24

West end of Windjammer Park (looking north) on Monday, August 20<sup>th</sup>.

Miles Sand and Gravel is delivering aggregate subbase material for a not-yet-constructed parking lot.

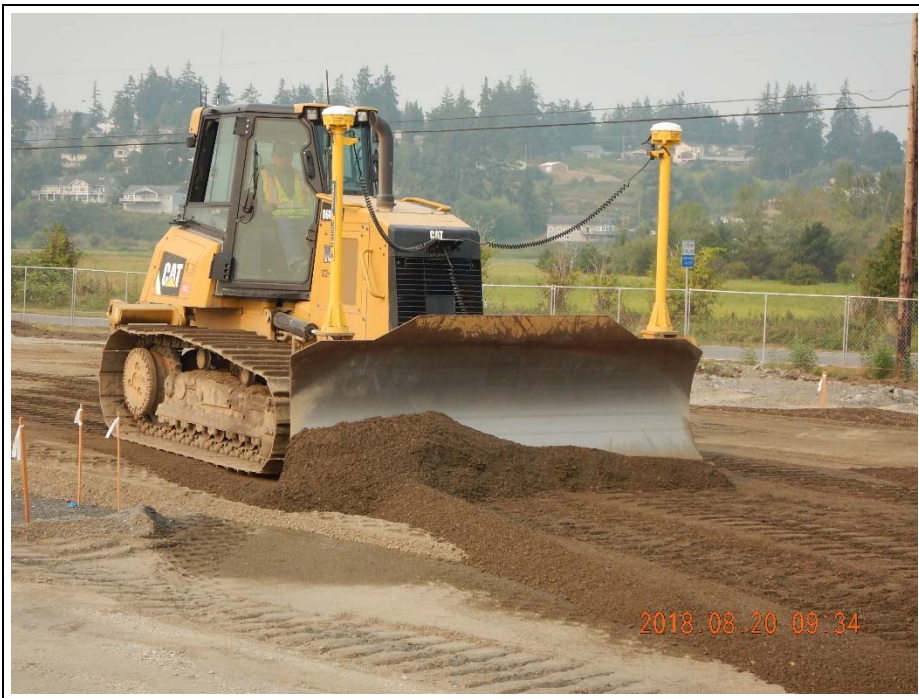


Photo #25

West end of Windjammer Park (looking west) on Monday, August 20<sup>th</sup>.

An operator for Interwest Construction is spreading aggregate subbase material for a not-yet-constructed parking lot.





Photo #26

West end of Windjammer Park (looking southwest and south) on Monday, August 20<sup>th</sup>.

S & S Concrete Construction is utilizing a slip-form paver to build curbs around the perimeter of a not-yet-constructed parking lot. Miles Sand and Gravel is providing the concrete.



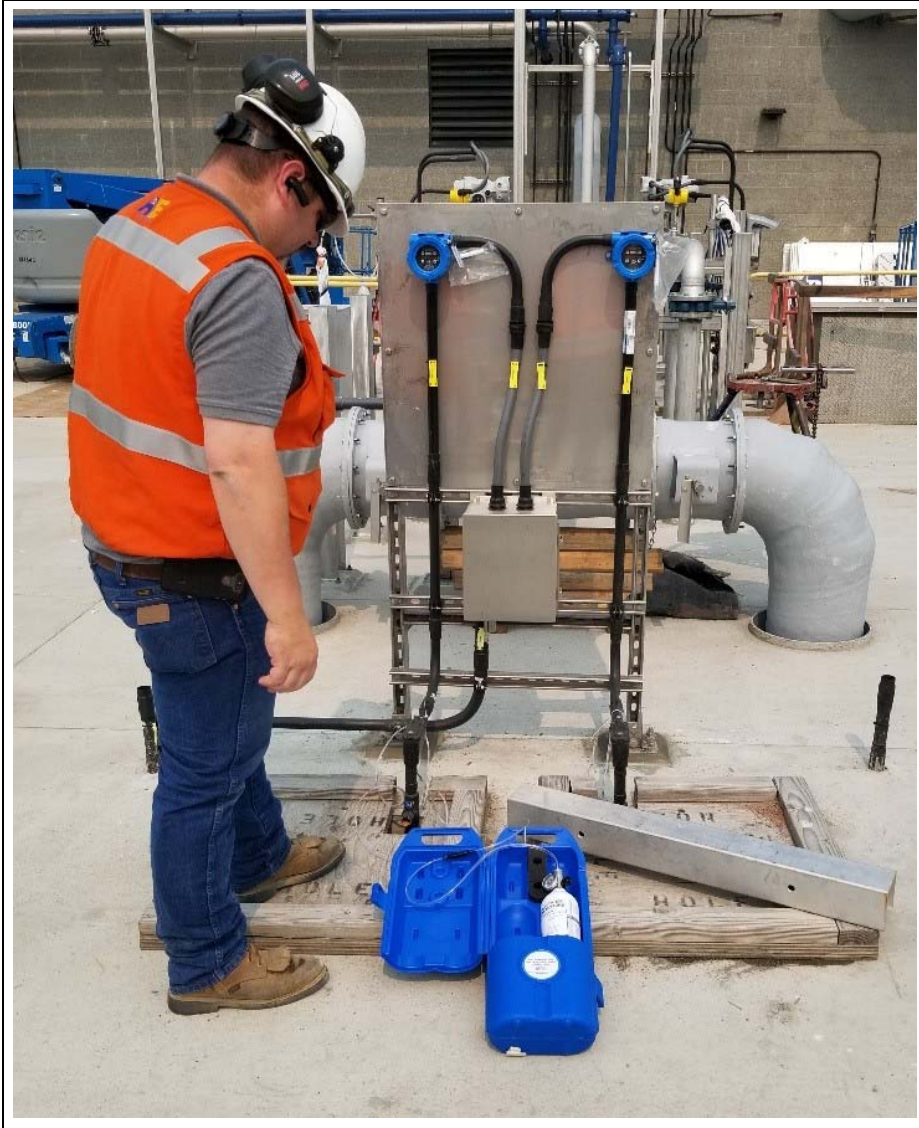


Photo #27

Area 31 Aeration Basins  
(looking north) on  
Tuesday, August 21<sup>st</sup>.

A technician for QualiTech  
is calibrating a gas sensor.



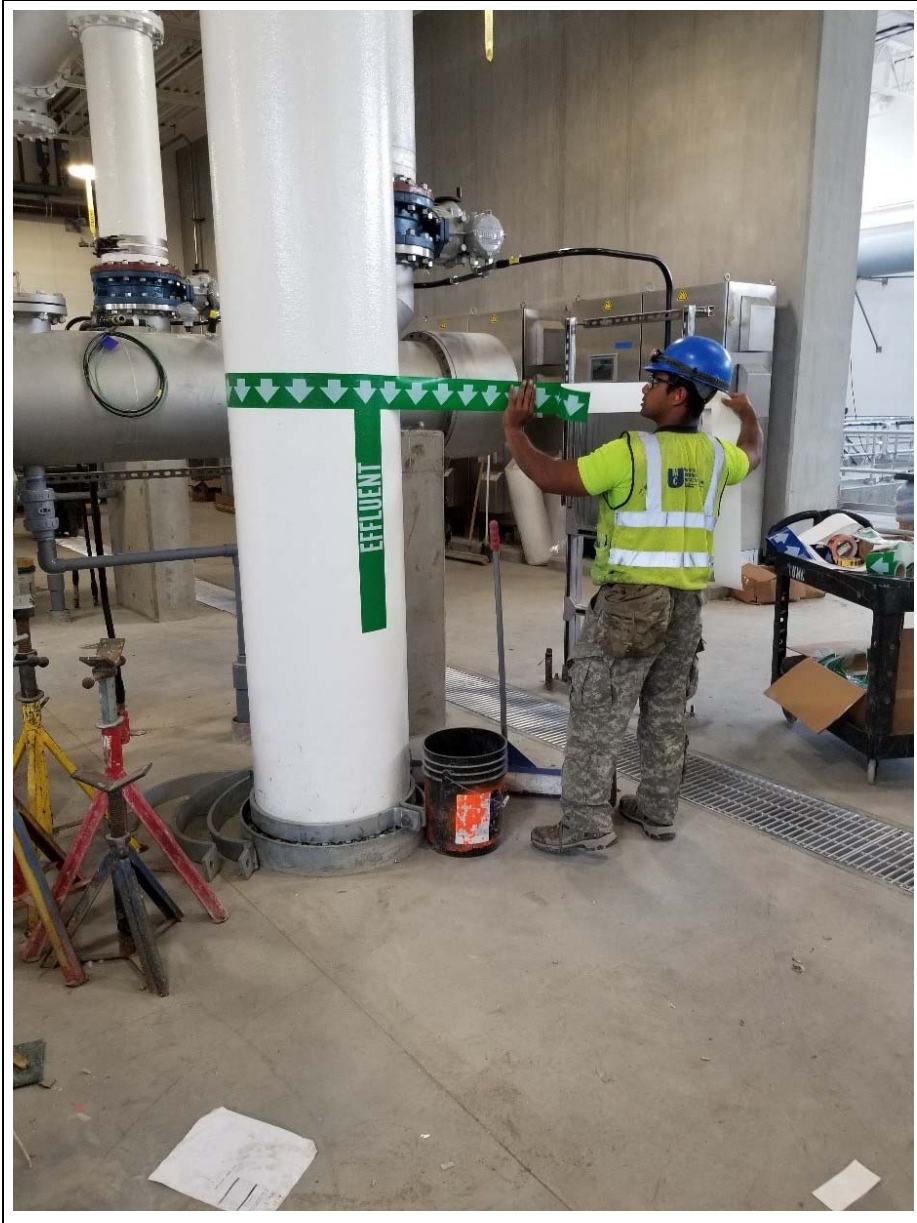


Photo #28

Area 36 UV Disinfection  
(looking northwest) on  
Wednesday, August 22<sup>nd</sup>.

A pipefitter for University  
Mechanical is installing a  
label on effluent piping.

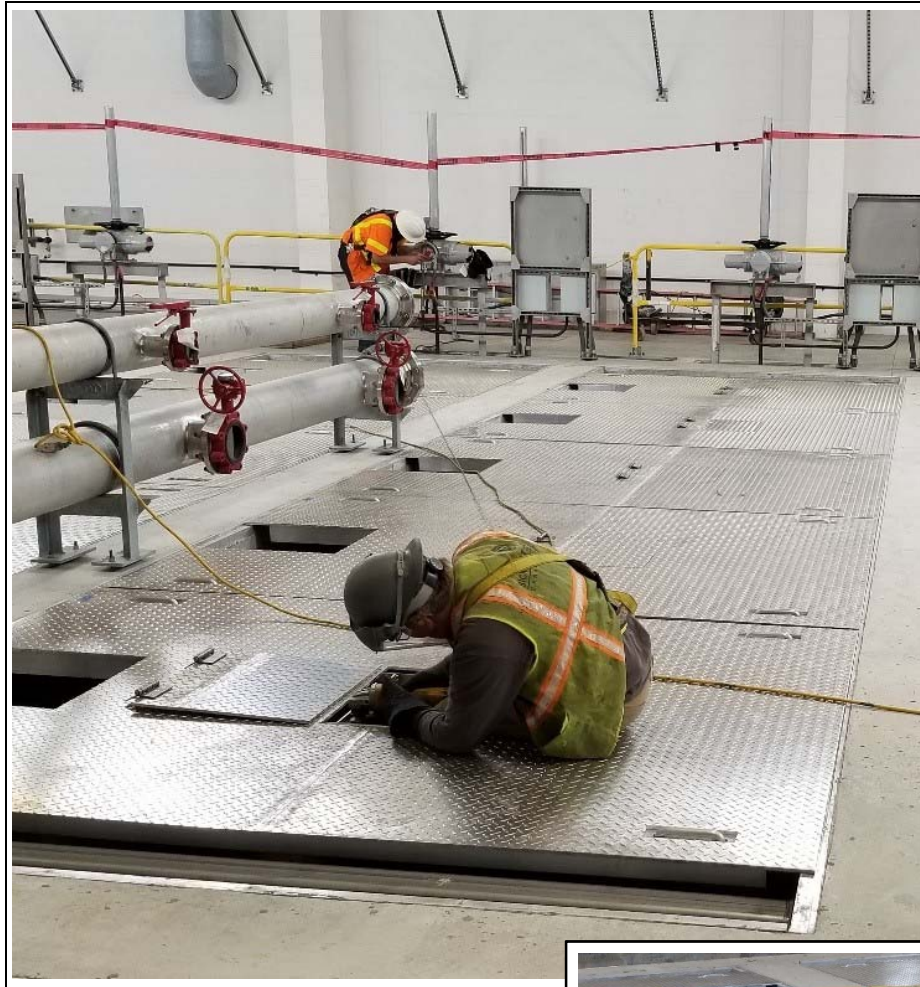


Photo #29

Area 34 Membrane Bioreactor (looking south) on Thursday, August 23<sup>rd</sup>.

Ironworkers for Steelkorr (foreground and below) are installing aluminum tread plates atop membrane tanks. A representative of RotorK (background) is inspecting conductors at an electric motor actuated slide gate.





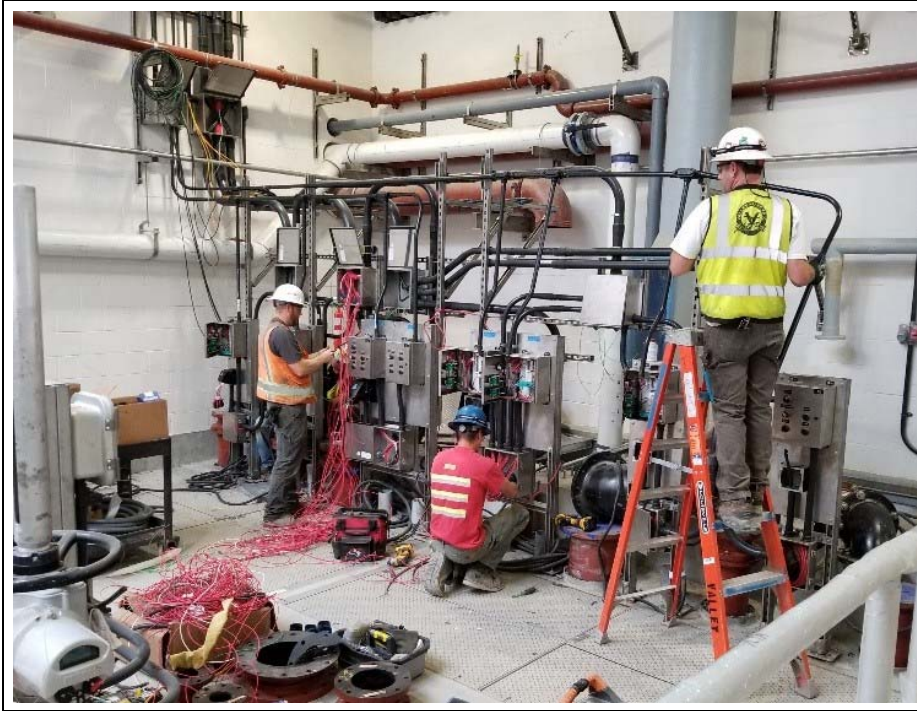


Photo #30

Area 20 Headworks  
(looking northwest) on  
Thursday, August 23<sup>rd</sup>.

Electricians for Valley  
Electric are installing  
conduits and conductors  
associated with control  
panels for influent pumps.



Photo #31

Area 20 – Headworks  
(looking southeast) on  
Thursday, August 23<sup>rd</sup>.

An electrician for Valley  
Electric is terminating  
conductors at a motor for  
a grit mixer, which is  
located below in a grit  
vortex chamber.



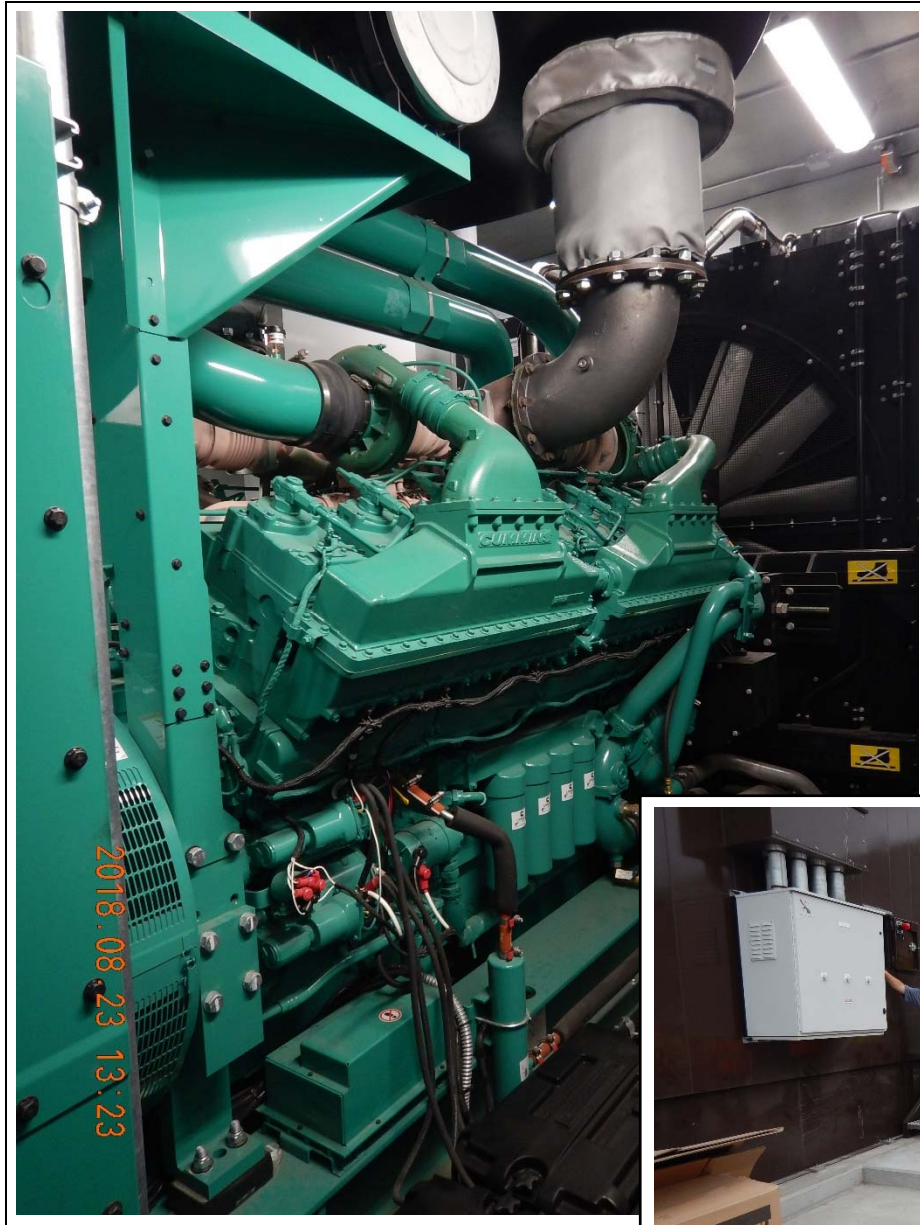


Photo #32

Area 70 Generator Yard (looking northwest) on Thursday, August 23<sup>rd</sup>.

Left: A Cummins 3,700 cubic inch displacement, V 16 cylinder diesel engine.

Bottom: A representative of Cummins Corporation, Rob Ekstrom, is conducting operator training pertaining to the clean water facility's new engine-generator.





Photo #33

Area 01 Administration Building (looking southwest) on Thursday, August 23<sup>rd</sup>.

An electrician for Valley Electric is installing conduits for lighting under a covered storage area.





Photo #34

Southwest end of Windjammer Park (looking southwest) on Thursday, August 23<sup>rd</sup>.

Electricians for Valley Electric are installing buried electrical conduits.





Photo #35

Area 35 RAS/WAS Pumping (looking southwest) on Monday, August 27<sup>th</sup>.

A technician for Apsco, LLC, Fred Mott, is verifying that a waste activated sludge (WAS) pump is ready to operate.



Photo #36

Area adjacent to the west side of Area 70 Generator Yard (looking southeast) on Tuesday, August 28<sup>th</sup>.

A carpenter for Interwest Construction is applying grout to form-tie holes and other imperfections in a newly constructed concrete retaining wall.



Photo #37

Area 70 Electrical Buiding (looking northwest in the control room) on Monday, August 27th.

An engineer for Suez Water Technologies and Solutions, Kathleen McAllister, is verifying that a control panel is communicating properly with equipment associated with a membrane filtration system.





Photo #38

Area 60 Odor Control  
(looking east) on Tuesday,  
August 28<sup>th</sup>.

Pipefitters for University  
Mechanical are installing a  
recirculation pump in the  
odor control structure.



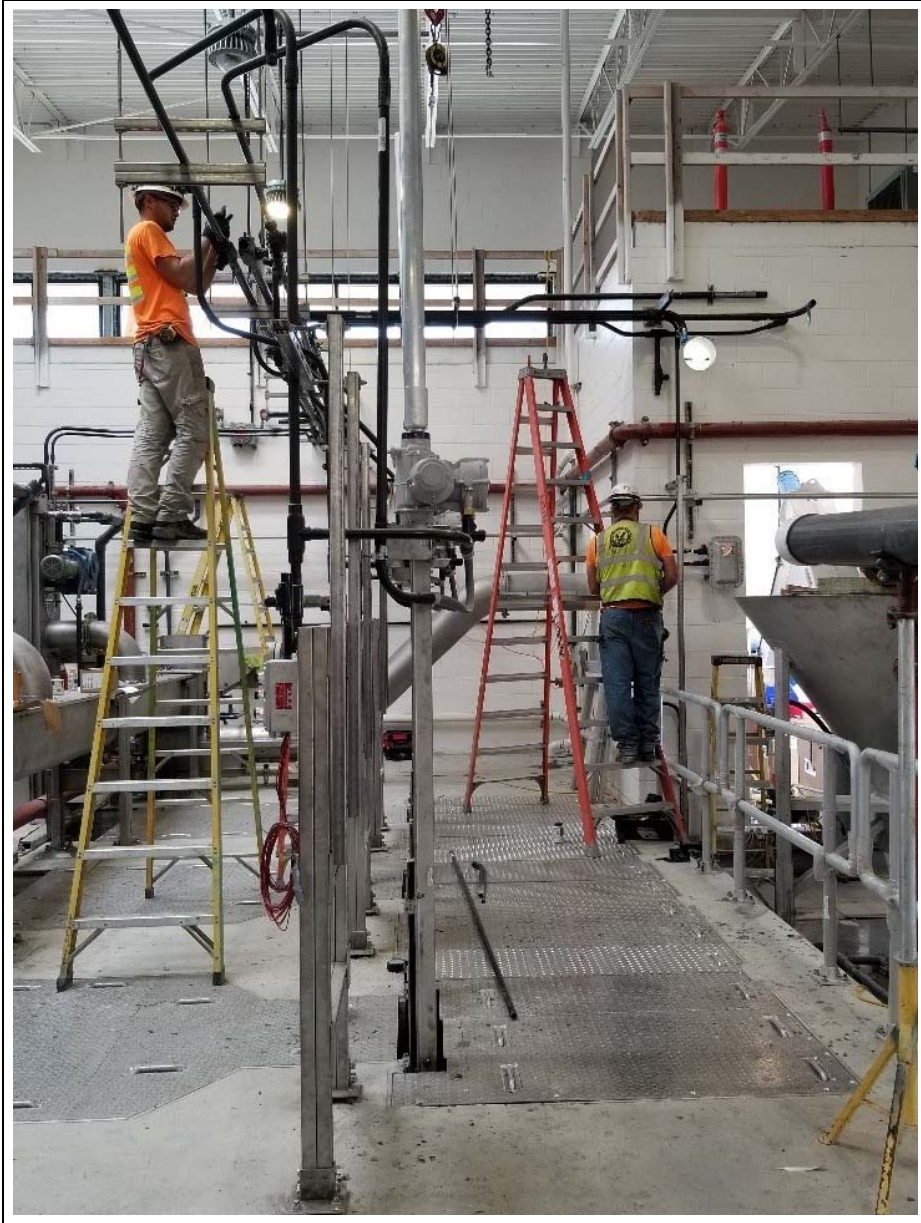


Photo #39

Area 20 Headworks  
(looking east) on Tuesday,  
August 28<sup>th</sup>.

Electricians for Valley  
Electric are installing  
conduits and conductors  
for fine screens and a grit  
washer.



Photo #40

Area 20 Secondary Treatment (looking northwest) on Wednesday, August 29<sup>th</sup>.

Whitney Equipment Company technician Dan Kelley is checking for voltage at a local control panel for an influent pump.



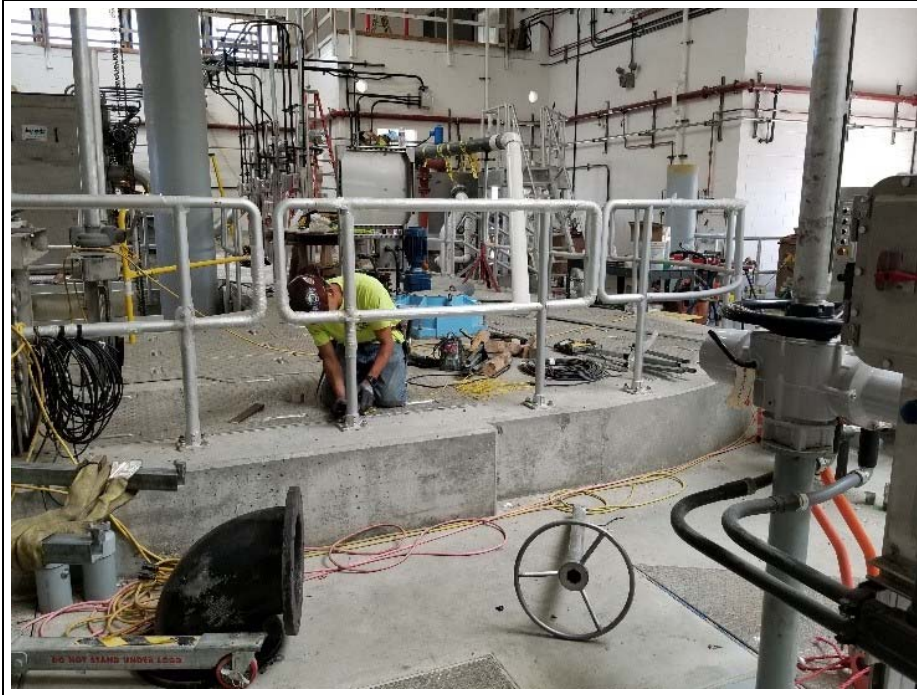


Photo #41

Zone 20 Headworks  
(looking east) on  
Thursday, August 30<sup>th</sup>.

An ironworker for  
Steelkorr is installing  
aluminum handrails  
around a grit vortex  
chamber.

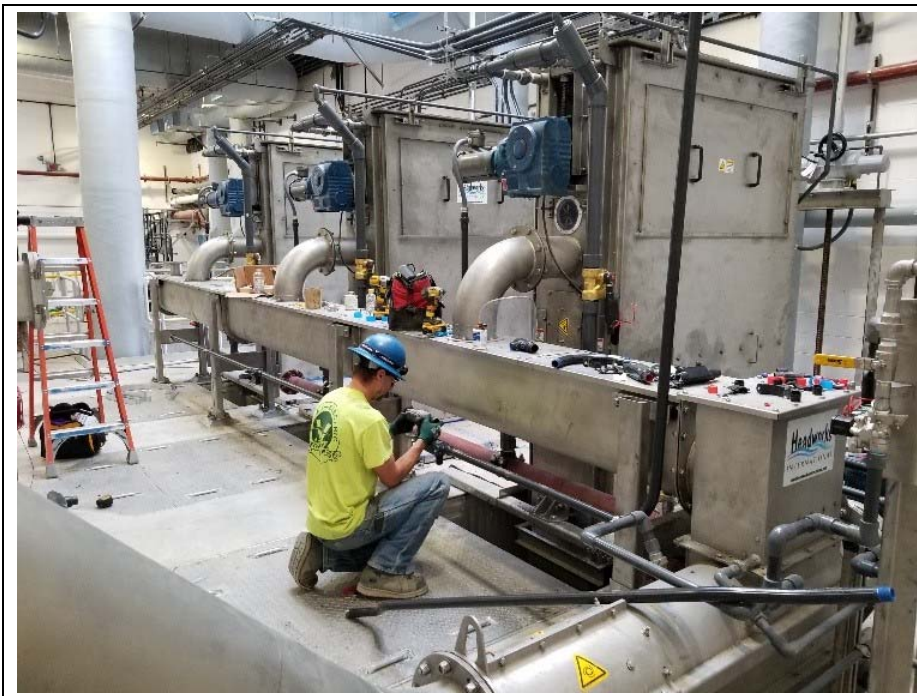


Photo #42

Area 20 Headworks  
(looking northwest) on  
Thursday, August 30<sup>th</sup>.

An electrician for Valley  
Electric is working on  
conduit and conductors  
next to a fine screen  
sluice trough.





Photo #43

Area 31 Aeration Basins (looking north) on Thursday, August 30<sup>th</sup>.

A pipefitter for University Mechanical (top) and a technician for Beaver Equipment Company, Jared Van Putten (bottom), are inspecting a bubbler system in operation at the bottom of an aeration basin.



Photo #44

Area 30 – Secondary Treatment Building (looking southwest) on Thursday, August 30<sup>th</sup>.

Sheet metal workers for Axiom are installing metal furring, rain screen, and glass-fiber reinforced concrete (GFRC) cladding to the exterior of the north side of the secondary treatment building.



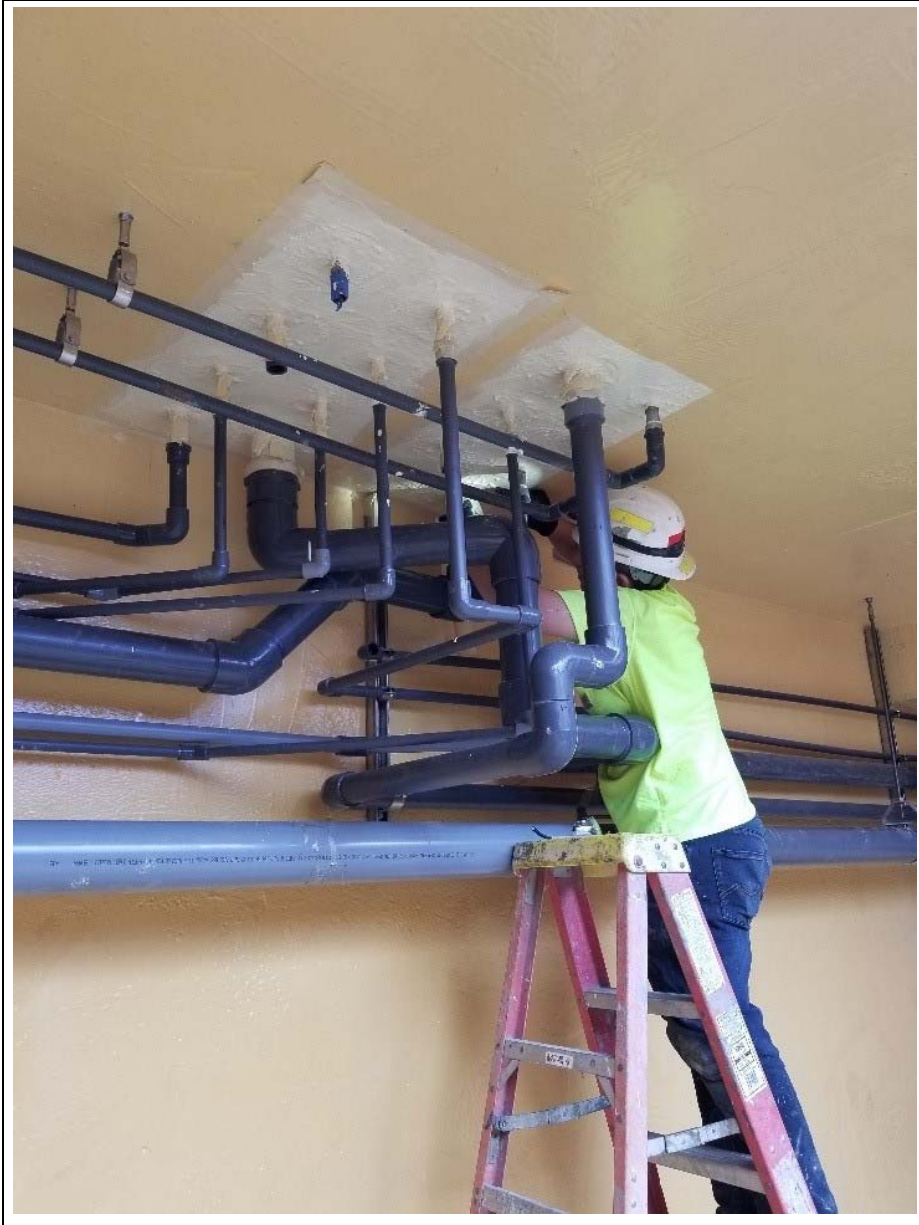


Photo #45

Area 20 Odor Control  
(looking southwest) on  
Thursday, August 30<sup>th</sup>.

A painter for Honeycutt's,  
Inc., is repairing a coating  
system at pipe  
penetrations.





Photo #46

East end of Windjammer Park (looking east) on Thursday, August 30<sup>th</sup>.

Laborers for Pacific Earth Works are installing 6-inch PVC irrigation piping (pink pipe) and PVC casing pipe (white pipe). The casing pipe is located where the irrigation pipe passes under sidewalks and slabs-on-grade.

# ATTACHMENT A

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**CLEAN WATER FACILITY PROJECT FINANCIAL REPORT**

**Summary Through 8/31/18**

<b>REVENUE</b>	<b>FUNDING OBTAINED</b>	<b>FUNDING USED</b>	<b>BALANCE</b>
SRF LOANS	97,983,466.00	95,293,738.43	2,689,727.57
BONDS	25,777,229.30	20,463,357.27	5,313,872.03
GRANTS	8,500,000.00	8,255,000.00	245,000.00
PROGRAM INCOME	14,939,361.80	7,734,027.59	7,205,334.21
CUMMULATIVE RESERVE	5,000,000.00	-	5,000,000.00
<b>TOTAL REVENUE</b>	<b>152,200,057.10</b>	<b>131,746,123.29</b>	<b>20,453,933.81</b>

<b>EXPENDITURES</b>	<b>CONTRACTED/ESTIMATED BUDGET</b>	<b>PROJECT TO DATE ACTUAL</b>	<b>BALANCE</b>
ACQUISITIONS	3,396,325.69	3,370,857.78	25,467.91
ADMINISTRATION	692,852.01	618,410.49	74,441.52
CONSTRUCTION	124,269,508.95	106,637,773.11	17,631,735.84
FINANCE	258,638.16	216,860.16	41,778.00
PROFESSIONAL SERVICES - DESIGN	9,447,726.92	9,251,614.22	196,112.70
PROFESSIONAL SERVICES - CONSTRUCTION	10,820,282.18	8,645,792.28	2,174,489.90
<b>TOTAL PROJECT EXPENDITURES</b>	<b>148,885,333.91</b>	<b>128,741,308.04</b>	<b>20,144,025.87</b>
<b>CASH SURPLUS (DEFICIT)</b>	<b>3,314,723.19</b>	<b>3,004,815.25</b>	<b>309,907.94</b>

<b>FINANCING/TRANSFERS</b>			
BONDS	2,776,377.50	2,348,781.87	427,595.63
LOANS	586,100.19	206,033.38	380,066.81
TRANSFERS- WINDJAMMER PARK - DESIGN	484,863.00	450,000.00	34,863.00
<b>TOTAL FINANCING/TSEFR</b>	<b>3,847,340.69</b>	<b>3,004,815.25</b>	<b>842,525.44</b>

<b>ESTIMATED CASH REMAINING</b>	<b>(532,617.50)</b>	<b>0.00</b>	<b>(532,617.50)</b>
---------------------------------	---------------------	-------------	---------------------

*Prepared by Patricia Soule, Finance Director*

**CLEAN WATER FACILITY PROJECT FINANCIAL REPORT**

**Expanded Detail**

*(ALL COSTS - EXCEPT OUTFALL AND FACILITY PLAN)*

<b>REVENUE</b>	<b>Estimated Budget</b>	<b>Actual through 8/31/18</b>	<b>Balance</b>
<b>Loans</b>	<b>97,983,466.00</b>	<b>95,293,738.43</b>	<b>2,689,727.57</b>
2015 SRF LOAN (00021)	8,260,000.00	8,260,000.00	-
2016 SRF LOAN (00240)	15,832,311.00	15,832,311.00	-
2017 SRF Loan (00081)	44,766,854.00	44,766,854.00	-
2018 SRF Loan (00112)	29,124,301.00	26,434,573.43	2,689,727.57
<b>Bonds</b>	<b>25,777,229.30</b>	<b>20,463,357.27</b>	<b>5,313,872.03</b>
2016 Revenue Bonds	25,777,229.30	20,463,357.27	5,313,872.03
<b>Grants</b>	<b>8,500,000.00</b>	<b>8,255,000.00</b>	<b>245,000.00</b>
2016 Forgivable Principal Grant #00240	463,154.00	463,154.00	-
2016 Centennial Grant #00240	4,586,846.00	4,586,846.00	-
2015 Legislative Capital Grant	2,450,000.00	2,205,000.00	245,000.00
Rural Economic Dev .09 Grant	1,000,000.00	1,000,000.00	-
<b>City Cash</b>	<b>19,939,361.80</b>	<b>7,734,027.59</b>	<b>12,205,334.21</b>
System Development Fees	5,000,000.00		5,000,000.00
Sale of Scrap	10,582.50		10,582.50
City Reserves	14,928,779.30	7,734,027.59	7,194,751.71
<b>Total Revenue</b>	<b>152,200,057.10</b>	<b>131,746,123.29</b>	<b>20,453,933.81</b>
<b>EXPENDITURES</b>	<b>Estimated Budget</b>	<b>Actual through 8/31/18</b>	<b>Balance</b>
<b>Acquisitions</b>	<b>3,396,325.69</b>	<b>3,370,857.78</b>	<b>25,467.91</b>
Contract			
Fullerton	12,990.00	12,990.00	-
Legal	38,774.97	19,980.97	18,794.00
Misc	15,523.45	15,523.45	-
Property	2,923,824.83	2,923,824.83	-
Rent	402,086.96	395,413.05	6,673.91
Supplies	125.48	125.48	-
Utilities	3,000.00	3,000.00	-
<b>Administration</b>	<b>692,852.01</b>	<b>618,410.49</b>	<b>74,441.52</b>
IDCA	680,790.04	606,348.52	74,441.52
Travel	12,061.97	12,061.97	-
<b>Construction</b>	<b>124,269,508.95</b>	<b>106,637,773.11</b>	<b>17,631,735.84</b>
Contract			
Carollo	1,828,155.00	1,449,114.92	379,040.08
Hoffman <sup>(1)</sup>	114,981,820.36	100,693,190.23	14,288,630.13
Hoffman <sup>(2)</sup>	6,485,578.30	4,054,500.00	2,431,078.30
PSE	568,742.77	99,626.22	469,116.55
Equipment	80,828.85		80,828.85
Materials	14,972.32	14,972.32	-
Misc	6,537.35	24,928.97	(18,391.62)
Supplies	3,586.45	1,799.52	1,786.93
Travel	18.00	18.00	-
Utilities	299,269.55	299,622.93	(353.38)
<b>Finance</b>	<b>258,638.16</b>	<b>216,860.16</b>	<b>41,778.00</b>
Audit	16,823.70	11,823.70	5,000.00
Contract			
Katy Isaksen	17,940.00	9,880.00	8,060.00
PFM	125,000.00	90,717.74	34,282.26
Financing	98,796.98	104,361.24	(5,564.26)
Misc	77.48	77.48	-

Notes:

1. Hoffman's estimated budget excludes GMPA No. 2
2. Hoffman amount transferred to Windjammer Park Project Fund so costs can be tracked in detail there

**CLEAN WATER FACILITY PROJECT FINANCIAL REPORT**

**Expanded Detail**

*(ALL COSTS - EXCEPT OUTFALL AND FACILITY PLAN)*

<b>EXPENDITURES</b> - continued	<b>Estimated Budget</b>	<b>Actual through 8/31/18</b>	<b>Balance</b>
<b>Professional Services - Design</b>	<b>9,447,726.92</b>	<b>9,251,614.22</b>	<b>196,112.70</b>
Advertising	15,984.39	15,984.39	-
Contract			-
Carollo	7,672,145.46	7,497,276.32	174,869.14
Christensen	10,000.00	5,039.37	4,960.63
ERCI	269,127.83	269,127.83	-
Hoffman	781,766.00	779,621.07	2,144.93
KBA	-	-	-
OAC	47,624.55	47,624.55	-
Perkins Coie	55,251.84	55,251.84	-
RSR	128,304.00	128,304.00	-
Equipment	7,860.42	7,860.42	-
Food	1,453.79	1,453.79	-
Materials	4,745.09	4,745.09	-
Misc	3,702.23	3,702.23	-
Monitoring	13,285.38	12,954.38	331.00
Permit	435,872.47	422,065.47	13,807.00
Supplies	361.60	361.60	-
Utilities	241.87	241.87	-
<b>Professional Services - Construction</b>	<b>10,820,282.18</b>	<b>8,645,792.28</b>	<b>2,174,489.90</b>
Advertising	13,688.53	14,422.99	(734.46)
Contract			-
Carollo	5,505,213.25	4,135,053.66	1,370,159.59
C2G	15,000.00	6,176.70	8,823.30
ERCI	1,112,002.15	1,111,599.21	402.94
Gary Goltz	70,500.30	27,115.51	43,384.79
KBA	4,024,813.28	3,316,735.03	708,078.25
OAC	7,855.45	7,855.45	-
Perkins Coie	43,208.16	5,911.31	37,296.85
Food	321.65	131.72	189.93
Misc	4,079.41	4,079.41	-
Monitoring	23,600.00	16,711.29	6,888.71
<b>Total Expenditures - Project #ENG 1609</b>	<b>148,885,333.91</b>	<b>128,741,308.04</b>	<b>20,144,025.87</b>
<b>Estimated Cash Remaining</b>	<b>3,314,723.19</b>	<b>3,004,815.25</b>	<b>309,907.94</b>

<b>FINANCING/TRANSFERS</b>			
<b>Bonds</b>	<b>2,776,377.50</b>	<b>2,348,781.87</b>	<b>427,595.63</b>
Interest	2,204,493.03	1,776,897.40	427,595.63
Miscellaneous	571,884.47	571,884.47	-
<b>Loans</b>	<b>586,100.19</b>	<b>206,033.38</b>	<b>380,066.81</b>
Principal	217,403.38	96,115.12	121,288.26
Interest	368,696.81	109,918.26	258,778.55
<b>Transfers</b>	<b>484,863.00</b>	<b>450,000.00</b>	<b>34,863.00</b>
Windjammer Park - for 1/2 Design Costs	484,863.00	450,000.00	34,863.00
<b>Project #FIN1601</b>	<b>3,847,340.69</b>	<b>3,004,815.25</b>	<b>842,525.44</b>
<b>Surplus (Deficit)</b>	<b>(532,617.50)</b>	<b>-</b>	<b>(532,617.50)</b>



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# ATTACHMENT B

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# AUTHORIZATION FOR PAYMENT OAK HARBOR CLEAN WATER FACILITY

**Date:** August 3, 2018  
**Owner:** City of Oak Harbor  
 865 SE Barrington Drive  
 Oak Harbor, WA 98277  
**Contract:** Brett Arvidson, Project Engineer  
**Telephone:** (360) 279-4521

**Progress Payment No.:** Application No. CWFC39  
**Contractor:** Hoffman Construction Company of Washington  
 600 Stewart Street, Suite 1000  
 Seattle, WA 98101  
**Contact:** Trevor Thies, Project Manager  
**Telephone:** (206) 268-6697

	Project Number	BARS Number	Original GMPA Amount	Adjustments <sup>(1)</sup>	Current GMPA Amount	Previous Amount Paid	Current Payment Request	Total Paid to Date	Remaining Balance	Percent Complete
GMPA No. 1 CWF Work:	eng1609.con.017	422.30.594.35.6200	2,448,520.00	-	2,448,520.00	2,004,204.50	35,167.50	2,039,372.00	409,148.00	83.3%
GMPA No. 2 Outfall Work:	eng1609.con.018	422.30.594.35.6310	1,427,000.00	5,641.79	1,432,641.79	1,432,641.79		1,432,641.79	-	100.0%
GMPA No. 3 CWF Work:	eng1609.con.019	422.30.594.35.6200	627,347.00	(199,914.78)	427,432.22	292,799.34		292,799.34	134,632.88	68.5%
GMPA No. 4 CWF Work:	eng1609.con.021	422.30.594.35.6200	3,919,735.00	235,558.47	4,155,293.47	4,155,293.47		4,155,293.47	0.00	100.0%
GMPA No. 5 CWF Work:	eng1609.con.022	422.30.594.35.6200	1,879,205.00	-	1,879,205.00	1,446,990.10		1,446,990.10	432,214.90	77.0%
GMPA No. 6 CWF Work:	eng1609.con.023	422.30.594.35.6200	2,565,820.00	(331,379.32)	2,234,440.68	2,231,944.84		2,231,944.84	2,495.84	99.9%
GMPA No. 7 CWF Work:	eng1609.con.024	422.30.594.35.6200	6,239,185.00	25,679.70	6,264,864.70	6,144,801.51	(1,663.50)	6,143,138.01	121,726.69	98.1%
GMPA No. 8 CWF Work:	eng1609.con.007	422.30.594.35.6200	7,024,188.00	774,390.52	7,798,578.52	7,593,543.56	70,921.73	7,664,465.29	134,113.23	98.3%
GMPA No. 9 CWF Work:	eng1609.con.008	422.30.594.35.6200	30,148,712.00	1,700,071.29	31,848,783.29	28,620,457.29	991,800.00	29,612,257.29	2,236,526.00	93.0%
GMPA No. 10 CWF Work:	eng1609.con.009	422.30.594.35.6200	4,809,815.00	1,525,672.60	6,335,487.60	6,361,634.83	(26,147.23)	6,335,487.60	-	100.0%
GMPA No. 11 CWF Work:	eng1609.con.042	422.30.594.35.6200	17,934,490.00	903,169.94	18,837,659.94	16,167,509.55	959,047.69	17,126,557.24	1,711,102.70	90.9%
GMPA No. 12 CWF Work:	eng1609.con.045	422.30.594.35.6200	3,957,515.00	11,274.96	3,968,789.96	2,744,281.78	293,315.00	3,037,596.78	931,193.18	76.5%
GMPA No. 13 CWF Work:	eng1609.con.047	422.30.594.35.6200	4,580,897.70	(860,042.01)	3,720,855.69	357,537.16	242,013.74	599,550.90	3,121,304.79	16.1%
<b>Subtotal CWF Work:</b>			87,562,429.70	3,790,123.16	91,352,552.86	79,553,639.72	2,564,454.93	82,118,094.65	9,234,458.21	
GMPA No. 13 WJP Work (Sewer):	eng1701.con.170.111	325.10.594.79.6300	5,449,153.30	(54,859.66)	5,394,293.64	414,995.48	192,634.05	607,629.53	4,786,664.11	11.3%
GMPA No. 13WJP Work (General):	eng1701.con.170.112	325.10.594.79.6300	3,819,283.00	(9,831.08)	3,809,451.92	-	175,397.42	175,397.42	3,634,054.50	4.6%
<b>Subtotal WJP Work:</b>			9,268,436.30	(64,690.74)	9,203,745.56	414,995.48	368,031.47	783,026.95	8,420,718.61	15.9%
Negotiated Support Services CWF:	eng1609.con.032	422.30.594.35.6200	8,339,260.00	-	8,339,260.00	6,170,762.63	197,979.68	6,368,742.31	1,970,517.69	76.4%
Specified General Conditions:	eng1609.con.033	422.30.594.35.6200	2,392,490.00	-	2,392,490.00	1,939,717.00	74,291.00	2,014,008.00	378,482.00	84.2%
<b>Subtotal Work, NSS, and SGC:</b>			107,562,616.00	3,725,432.42	111,288,048.42	88,079,114.83	3,204,757.08	91,283,871.91	20,004,176.51	82.0%

GMP#13 will not be charged to Dept. of Ecology (shown as deduct)

	Project Number	BARS Number	Original GMPA Amount	Adjustments <sup>(1)</sup>	Current GMPA Amount	Total Paid to Date	Current Payment Request	Total Paid to Date	Remaining Balance	Percent Complete
GC/CM Risk Contingency:			3,492,360.00	(2,104,947.93)	1,387,412.07				1,387,412.07	
Owner Risk Contingency:			1,857,883.00	(1,620,484.49)	237,398.51				237,398.51	
<b>Subtotal Contingencies:</b>			<b>5,350,243.00</b>	<b>(3,725,432.42)</b>	<b>1,624,810.58</b>				<b>1,624,810.58</b>	
<b>Hoffman Subtotal:</b>			<b>112,912,859.00</b>		<b>112,912,859.00</b>	<b>88,079,114.83</b>	<b>3,204,757.08</b>	<b>91,283,871.91</b>	<b>21,628,987.09</b>	
GC/CM Fee (4.28%) CWF:	eng1609.con.036	422.30.594.35.6200	4,832,668.00		4,832,668.00	3,752,024.30	121,411.85	3,873,436.15	925,718.30	
GC/CM Fee (4.28%) WJP-S	eng1701.con.036.111	325.10.594.79.6300				17,761.80	8,244.74	26,006.54		
GC/CM Fee (4.28%) WJP-G:	eng1701.con.036.112	325.10.594.79.6300				-	7,507.01	7,507.01		
<b>Contract SUBTOTAL:</b>			<b>117,745,527.00</b>		<b>117,745,527.00</b>	<b>91,848,900.93</b>	<b>3,341,920.68</b>	<b>95,190,821.61</b>	<b>22,554,705.39</b>	<b>80.8%</b>
WA State Sales Tax (8.7%) CWF:	eng1609.con.037	422.30.594.35.6200	10,243,860.85		10,243,860.85	7,953,204.50	257,357.96	8,210,562.46	1,962,259.37	
WA State Sales Tax (8.7%) WJP-S:	eng1701.con.037.111	325.10.594.79.6300				37,649.88	17,476.45	55,126.33		
WA State Sales Tax (8.7%) WJP-G:	eng1701.con.037.112	325.10.594.79.6300				-	15,912.69	15,912.69		
<b>TOTAL:</b>			<b>127,989,387.85</b>		<b>127,989,387.85</b>	<b>99,839,755.31</b>	<b>3,632,667.78</b>	<b>103,472,423.09</b>	<b>24,516,964.76</b>	<b>80.8%</b>

Notes:

- Adjustments between work and contingencies are documented by means of cost change memorandums, which are reviewed and approved by the City.
- Percentage allocations reflected between projects ENG1609 (CWF) and ENG1701 (WJP-Sewer) are based on an estimated overall allocation of work. Actual monthly invoices will not reflect the actual performance in specific project areas. Resultant of the GC/CM Fees and Taxes are calculated on these assumptions. These allocations are for asset accounting purposes only.
- CWF = Clean Water Facility  
GMPA = Guaranteed Maximum Price Amendment

<b>CONTRACT AMOUNT</b>			
<b>Retainage Adjustment CWF (422):</b>	3,506,594.15	117,176.62	3,623,770.77
<b>Retainage Adjustment WJP (325):</b>	20,737.86	17,890.61	38,628.47
<b>Net Payment(s):</b>	96,312,423.30	3,497,600.55	99,810,023.85
<b>PAID TO DATE</b>			
<b>PAY THIS AMOUNT</b>			

Pay request verified by: \_\_\_\_\_  
Daniel Williams, Resident Engineer, KBA *signature*

\_\_\_\_\_ *date*

Pay request verified by: \_\_\_\_\_  
Brett Arvidson, Project Engineer *signature*

\_\_\_\_\_ *date*

Payment authorized by: \_\_\_\_\_  
Cathy Rosen, Director of Public Works *signature*

\_\_\_\_\_ *date*

	Project Number	BARS Number	Original GMPA Amount	Adjustments <sup>(1)</sup>	Current GMPA Amount	Total Paid to Date	Current Payment Request	Total Paid to Date	Remaining Balance	Percent Complete
GC/CM Risk Contingency:			3,492,360.00	(2,104,947.93)	1,387,412.07				1,387,412.07	
Owner Risk Contingency:			1,857,883.00	(1,620,484.49)	237,398.51				237,398.51	
<b>Subtotal Contingencies:</b>			<b>5,350,243.00</b>	<b>(3,725,432.42)</b>	<b>1,624,810.58</b>				<b>1,624,810.58</b>	
<b>Hoffman Subtotal:</b>			<b>112,912,859.00</b>		<b>112,912,859.00</b>	<b>88,079,114.83</b>	<b>3,204,757.08</b>	<b>91,283,871.91</b>	<b>21,628,987.09</b>	
GC/CM Fee (4.28%) CWF:	eng1609.con.036	422.30.594.35.6200	4,832,668.00		4,832,668.00	3,752,024.30	121,411.85	3,873,436.15	925,718.30	
GC/CM Fee (4.28%) WJP-S	eng1701.con.036.111	325.10.594.79.6300				17,761.80	8,244.74	26,006.54		
GC/CM Fee (4.28%) WJP-G:	eng1701.con.036.112	325.10.594.79.6300				-	7,507.01	7,507.01		
<b>Contract SUBTOTAL:</b>			<b>117,745,527.00</b>		<b>117,745,527.00</b>	<b>91,848,900.93</b>	<b>3,341,920.68</b>	<b>95,190,821.61</b>	<b>22,554,705.39</b>	<b>80.8%</b>
WA State Sales Tax (8.7%) CWF:	eng1609.con.037	422.30.594.35.6200	10,243,860.85		10,243,860.85	7,953,204.50	257,357.96	8,210,562.46	1,962,259.37	
WA State Sales Tax (8.7%) WJP-S:	eng1701.con.037.111	325.10.594.79.6300				37,649.88	17,476.45	55,126.33		
WA State Sales Tax (8.7%) WJP-G:	eng1701.con.037.112	325.10.594.79.6300				-	15,912.69	15,912.69		
<b>TOTAL:</b>			<b>127,989,387.85</b>		<b>127,989,387.85</b>	<b>99,839,755.31</b>	<b>3,632,667.78</b>	<b>103,472,423.09</b>	<b>24,516,964.76</b>	<b>80.8%</b>

Notes:

1. Adjustments between work and contingencies are documented by means of cost change memorandums, which are reviewed and approved by the City.

2. Percentage allocations reflected between projects ENG1609 (CWF) and ENG1701 (WJP-Sewer) are based on an estimated overall allocation of work. Actual monthly invoices will not reflect the actual performance in specific project areas. Resultant of the GC/CM Fees and Taxes are calculated on these assumptions. These allocations are for asset accounting purposes only.

3. CWF = Clean Water Facility  
GMPA = Guaranteed Maximum Price Amendment

**CONTRACT AMOUNT**

**PAID TO DATE**

Retainage Adjustment CWF (422):	3,506,594.15	117,176.62	3,623,770.77
Retainage Adjustment WJP (325):	20,737.86	17,890.61	38,628.47
<b>Net Payment(s):</b>	<b>96,312,423.30</b>	<b>3,497,600.55</b>	<b>99,810,023.85</b>

**PAY THIS AMOUNT**

Pay request verified by: *Daniel Williams*  
Daniel Williams, Resident Engineer, KBA  
signature

Pay request verified by: *Brett Arvidson*  
Brett Arvidson, Project Engineer  
signature

Payment authorized by: *Cathy Rosen*  
Cathy Rosen, Director of Public Works  
signature

8/13/18  
date

8/13/18  
date

8/13/18  
date



**CWF RETAINAGE BREAKDOWN:**

Total of Hoffman Contract Subtotal from above:	<b>91,848,900.93</b>	<b>3,341,920.68</b>	<b>95,190,821.61</b>
Less Valley Electric covered by Retainage Bond 422:	(9,742,912.00)	(614,605.00)	(10,357,517.00)
Less Valley Electric covered by Retainage Bond 325:	(18,000.00)	(25,971.00)	(43,971.00)
Less ST Fabrication covered by Retainage Bond:	(3,608,040.39)		(3,608,040.39)
Less Condon Johnson Completed Sub-Contract:	(5,362,670.39)		(5,362,670.39)
Less Malcolm Drilling Completed Sub-Contract:	(1,136,262.20)		(1,136,262.20)
Less Pellco Completed Sub-Contract:	(1,434,376.78)		(1,434,376.78)
Contract Amount for 5% Retainage Calculation:	<u>70,546,639.17</u>	<u>2,701,344.68</u>	<u>73,247,983.85</u>
Retainage (5%) on Total Earned to date:	4,592,445.10	167,096.03	4,759,541.13
Less Valley Electric covered by Retainage Bond 422:	(487,145.60)	(30,730.25)	(517,875.85)
Less Valley Electric covered by Retainage Bond 325:	(900.00)	(1,298.55)	(2,198.55)
Less ST Fabrication covered by Retainage Bond 422:	(180,402.02)	-	(180,402.02)
Less Condon Johnson Retainage Released 02/21/18:	(268,133.52)	-	(268,133.52)
Less Malcolm Drilling Retainage Released 02/21/18:	(56,813.11)	-	(56,813.11)
Less Pellco Retainage Released 05/15/18:	(71,718.84)	-	(71,718.84)
Retainage Adjustment:	<u>3,527,332.01</u>	<u>135,067.23</u>	<u>3,662,399.24</u>

Retainage for project ENG1701 is calculated on the sum of WJP sewer and general work and GC/CM fees only and is deducted from the retainage adjustment.

# ATTACHMENT C

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**City of Oak Harbor**

Bob Severns, Mayor  
Beth Munns, Mayor Pro-Tem

Rick AlMBERG, Councilmember  
Tara Hizon, Councilmember

Bill Larsen, Councilmember  
Joel Servatius, Councilmember

Erica Wasinger, Councilmember  
James Woessner, Councilmember

Patricia Soule, Interim City Administrator  
Cathy Rosen, Director of Public Works  
Joe Stowell, City Engineer  
Brett Arvidson, Project Engineer  
Phil Matthews, Plant Supervisor

**Carollo Engineers**

Brian Matson, Project Manager  
Karl Hadler, Design Manager,  
Michael Borrero, Resident Engineer  
Monte Richards, SCADA Engineer  
Brian Graham, Start-up Engineer  
  
-- MWA Architects  
-- Greenworks  
-- Enviroissues

**Hoffman Construction Company**

Trevor Thies, Senior Project Manager  
Bryan Shirley, Senior Superintendent  
Ben Larson, Project Manager  
Esau Spicer, Superintendent  
Bobby Taylor, Project Engineer  
Jim Morrison, Project Engineer  
Adam Jorgenson, Project Engineer  
Dana Beckman, Office Manager

**KBA**

K Adams, Project Manager  
Daniel Williams, Resident Engineer  
Chris Bailey, Project Specialist  
Brian Hanson, Inspector  
  
-- GeoTest Services  
-- Oxford Engineering (cost validation)

Advanced Equipment Corporation  
Andersen Specialties, Co.  
Ascendent, LLC  
Automated Gates and Equipment  
Axiom Construction (metal roof and flashing)  
Bilco Company, The  
Biorem Enviromental, LLC  
Brandsen Hardwood Floors, Inc.  
Condon Johnson  
-- Concrete Nor'West (Miles Sand & Gravel)  
-- Ness Cranes  
Crawford Garage Doors  
DeaMor Associates  
EISI Consulting Engineers  
Electric Reliability Services  
Engineered Treatment Systems (ETS)  
Garner Construction  
Haarslev Industries, Inc.  
Hoffman Mechanical, Inc.  
Hoffman Structures, Inc. (HSI)  
-- Gerdau Reinforcing Steel  
-- Interwest Construction  
-- Leewens Corporation (T-lock lining)  
-- Western Concrete Pumping  
Interwest Construction  
-- Allstar Hydroseeding  
-- Bayside Services  
-- Cascade Dive Company  
-- Holocene Drilling  
-- Lakeside Industries  
-- Ming Surveyors  
-- Morse Steel Service  
-- Ness Cranes  
-- Nordic Construction  
-- North Hill Resources  
-- Norton Corrosion  
-- Penny Lee Trucking  
-- Reece Construction  
-- Salinas Sawing and Sealing  
Island Partners Painting  
Kent Crane & Inspection Services

KPFF Consulting Engineers  
Laboratory Design & Construction  
-- Scientific Lab Technology  
Leewens Corporation (crack injection)  
Madden Fabrication  
Malcolm Drilling  
-- Barnhart Crane & Rigging  
-- Concrete Nor'West (Miles Sand & Gravel)  
-- Lenz Enterprises  
-- Ness Cranes  
Ming Surveyors  
Morrow Equipment Company  
Ness Cranes  
Northwest Playground Equipment, Inc.  
Northwest Tower Crane  
P&L Contractors  
-- Valdez Construction  
Pacific Earthworks, Inc.  
Pacific Glass and Door  
Pellico Construction  
-- Ace Concrete Cutting  
-- Allstar Hydroseeding  
-- Bayside Services  
-- Elcon Corporation  
-- Holocene Drilling  
-- Manholes Unlimited  
-- Concrete Nor'West (Miles Sand & Gravel)  
-- Penny Lee Trucking  
Penington Painting Company  
-- Hunnicutt's, Inc.  
Performance Contracting, Inc.  
R & D Masonry  
Richards Phillips Marine (RPM)  
-- Ace Concrete Cutting  
-- Barnhart Crane and Rigging  
-- Bellingham Marine Industry, Inc.  
-- Emtex Matting Solutions  
-- HD Supply  
-- Wilson Engineering (Surveyors)  
Shinn Mechanical

Snyder Roofing  
ST Fabrication  
-- Steellkorr, LLC  
Turner Construction  
University Mechanical Corporation  
-- Casdade Sawing and Drilling  
-- D&G Mechanical Insulation  
-- Delta Technology Corporation  
-- Honeywell International  
-- EC Company  
-- Interwest Construction  
-- Norton Corrosion  
-- Penhall Company  
-- Seattle Concrete Core Drilling  
United Site Services  
Valdez Construction  
-- Alliance Partition Systems  
-- Axiom Construction (GFRC Cladding)  
-- Forest Sound Products  
-- Gale Contractor Services  
-- LangCo NW  
-- Flooring Solutions  
-- Sabelhaus West  
-- Sterling Contractors  
Valley Electric  
-- Concrete Nor'West (Miles Sand & Gr)  
-- Integrity Networks  
-- Interwest Construction  
-- Johnson Controls  
-- Ness Cranes  
-- QualITEQ  
-- Redhawk Fire & Safety  
-- RPL Electric  
-- General Electric (Switchgear)  
-- Rockwell Automation (MCCs)  
-- Western Concrete Pumping  
Washington Iron Works  
WEMCO  
Xylem Dewatering Solutions  
Zenon Environmental (a.k.a Suez)  
Zesbaugh, Inc.

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