

July 30, 2015

Susanne Perkins  
EPA Clean Water Enforcement Section  
U. S. Environmental Protection Agency, Region 9  
75 Hawthorne Street  
San Francisco, CA 94105

Dear Susanne,

Pursuant to further compliance with the **ORDER FOR PRELIMINARY RELIEF RE: DEADLINES FOR OUTSTANDING PROJECTS UNDER THE AMENDED STIPULATED ORDER; CIVIL CASE No. 02-00035 (CO)**, The Guam Waterworks Authority herewith presents the reports required on or following this date as ordered, adjudged and decreed items: \_Section III, REPORTING REQUIREMENTS, Paragraph 31(a) Quarterly Progress Report, for April through June 2015.

Contents:

Part 1:

*"Court Order Status Report 07 30 2015.pdf"*

It is included in this document, beginning on page 3.

Part 2:

*"Part 2-CourtOrderReportCard07-15-2015.pdf"* (Formerly Dashboard)

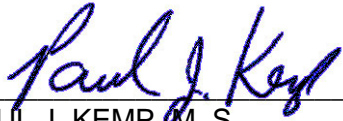
*"Part 2-2nd Qtr 2015 Report - CO 4 b Sludge Management.pdf"*

*"Part 2 Sinajana Monitoring Data CO 28 e 2015Q2.pdf"*

The part 2 documents are included with this document as separate files for convenience in using them individually.

CERTIFICATION STATEMENT

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



PAUL J. KEMP, M. S.

Assistant General Manager for Compliance and Safety

July 30, 2015

Date

CC: Robert Mullaney, US DoJ  
Michael Knapp Region 9, USEPA  
Interim GWA GM  
GWA Legal Counsel  
Kathy Fokas, Attorney General of Guam  
File



## **2011 Court Order Status Report**

**2nd Quarter Report for 2015**

**Prepared By:**

**Paul Kemp, M. S.  
Evangeline D Lujan  
And  
Thomas Cruz, P. E.**

**Dated  
7/30/2015**

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**Part 1: Paragraph Reporting**

**Paragraph 2, 3, & 4: Northern District Wastewater Treatment Plant (WWTP) Interim Primary Treatment Upgrades: All task listed in this section are completed and have been reported.**

**Table: Project Schedule**

Name	CO ¶	Project	Schedule	Status	Funding
Northern District WWTP Primary Treatment Upgrades.	2	Interim Primary Treatment Improvements	09/30/2012	<b>COMPLETED</b>	2010 Bond
	2	Interim Primary Treatment notice of completion	30 days after completion	<b>COMPLETED</b>	2010 Bond
	3(a)	Interim Effluent Agreement meet Table 1	09/30/2012	<b>COMPLETED</b>	2010 Bond
	3(a) 1	PE Review	3 mo. after compliance	<b>COMPLETED</b>	2010 Bond
	3(c)	Effluent monitoring (one calendar-year quarterly)	Quarterly	<b>COMPLETED</b>	Revenue Funded
	4(a)	Sludge & Biosolids Management Plan	12/31/2011	<b>COMPLETED</b>	2010 Bond
	4(a)	Adequate stabilization and dewatering	12/31/2011	<b>COMPLETED</b>	2010 Bond
	4(b)	Biosolids Management, Quarterly Report	Quarterly	Routine	Revenue Funded
	4(c)	Biosolids Management, repair & replace facilities	12/31/2011	<b>COMPLETED</b>	2010 Bond
	4(d)	Biosolids Management, implement plan	12/31/2011	<b>COMPLETED</b>	2010 Bond

**Funding:**

2010 bond reallocation approved by Consolidated Commission on Utilities (CCU) (07/27/2011)  
 2010 bond reallocation approved by Public Utilities Commission (PUC) (09/19/2011)  
 System Development Charges may be used as a funding source.

**Contracts:**

Design Build for Interim Upgrade of NDWWTP

Contractor: Veolia Water Guam (VWG)  
 Contract amount: \$9,018,000  
 Change orders (1-5): \$1,260,438  
 Date of Commencement: November 16, 2011  
 Base Contract Complete: December 13, 2012  
 Septage Receiving Station Completed: June 28, 2013

PMO Work Authorization for Project Management Oversight

Contractor: Brown and Caldwell  
 Contract amount: \$240,000  
 NTP: March 5, 2012 Completed: June 30, 2013

**Permits:**

None.

**GWA Milestones:**

The project is complete as of 12/30/2012. Takeover Certificate signed 2/28/2013.  
 Full year of compliance at 5MGD met on 12/30/2013. GWA has on file the reports for use in preparing a request to increase monthly average flow to 7.5 MGD. This application will be made when GWA Operations, GWA Engineering and GWA General Manager decide it is appropriate to do so.

Project Status:

**Table: Project Status**

Name	CO ¶	Project	Status Details
Northern District WWTP Primary Treatment Upgrades.	2	Interim Primary Treatment Improvements	<b>COMPLETED.</b> Commissioning tests and project turnover have been completed as of December 30, 2012. Refer to the GWA certification of completion letter dated January 9, 2013
	2	Interim Primary Treatment notice of completion	<b>COMPLETED.</b> Refer to the GWA certification of completion letter dated January 9, 2013
	3(a)	Interim Effluent Agreement meet Table 1	<b>COMPLETED.</b> GWA achieved compliance with this Table on January 9, 2013 and expects to remain in compliance hereafter. Refer to the NPDES DMR Second Quarter FY 2013 (January to March, 2013).

	3(a)(1)	PE Review	<b>COMPLETED.</b> Engineering capacity report received July 31, 2013.
	3(c)	Effluent monitoring (one calendar-year quarterly)	<b>COMPLETED.</b>
	4(a)	Sludge & Biosolids Management Plan	<b>COMPLETED.</b> Submitted to EPA on December 29, 2011; EPA commented on July 26, 2012 and GWA submitted a response on August 13, 2012. Currently under review by EPA.
	4(a)	Adequate stabilization and dewatering	<b>COMPLETED.</b> The centrifuges installed in the NDWWTP interim improvement project will accomplish the dewatering. Stabilization goals have been addressed in the biosolids management plan currently under EPA review.
	4(b)	Biosolids Management, Quarterly Report	GWA collects data for the reports. Current report is included as an attachment to this report. Routine, repeats quarterly.
	4(c)	Biosolids Management, repair & replace facilities	<b>COMPLETED.</b> The interim primary treatment improvement project is complete. Centrifuges are operational and dewatering sludge in accordance with the biosolids management plan.
	4(d)	Biosolids Management, implement plan	<b>COMPLETED.</b> The interim primary treatment improvement project is complete. Biosolids to landfill.

Problems Encountered or Anticipated:

None.

Areas of Non-Compliance with the Court Order:

None.

**Paragraph 5 & 6: Hagåtña (Agaña) WWTP Primary Treatment Upgrades : All Task listed in this section have been completed and have been reported.**

**Table: Project Schedule and Status**

Name	CO ¶	Project	Schedule	Status	Funding
Hagåtña (Agaña) WWTP Interim Measures.	5	Primary Treatment Plant Upgrades (CEPT)	06/30/2013	<b>COMPLETED.</b>	2010 Bond
	5(a)	Scope and Schedule	09/30/2011	<b>COMPLETED</b>	2010 Bond
	5(b)	Septage Handling complete	06/30/2013	<b>COMPLETED</b>	2010 Bond
	5(b) 1	Septage Handling design contract signed	12/31/2011	<b>COMPLETED</b>	2010 Bond
	5(b) 2	Septage Handling construction notice to proceed	06/30/2012	<b>COMPLETED</b>	2010 Bond
	5(c)	Grit and FOG complete	06/30/2013	<b>COMPLETED</b>	2010 Bond

	5(c)(1)	Grit and FOG design contract signed	12/31/2011	COMPLETED	2010 Bond
	5(c)(2)	Grit and FOG construction notice to proceed	06/30/2012	COMPLETED	2010 Bond
	5(d)	Repair Solids Handling	06/30/2013	COMPLETED	2010 Bond
	5(e)	O & M Plan	05/31/2013	COMPLETED	2010 Bond
	5(f)	Quarterly Monitoring	Quarterly	COMPLETED	Revenue Funded
	6	Prevent Effluent Back Surge	06/30/2013	COMPLETED	2010 Bond
	6	Effluent Back Surge Plan	12/30/2011	COMPLETED	2010 Bond

**Funding:**

Fully funded by GWA 2010 Bond  
 2010 bond reallocation approved by CCU (07/27/2011)  
 2010 bond reallocation approved by PUC (09/19/2011)  
 System Development Charges may be used as a funding source.

**Contracts:**

Agaña Process Improvement 30% Design Contract:

Contractor: VWG  
 Contract amount: \$593,940  
 Change order (\$101,120)  
 NTP: December 28, 2011 First phase, completed December 31, 2012.  
 Change order completed May 2013.

Grit and FOG Final Design and Construction Contract:

Contractor: GCIFI by Change Order to Moratorium Project  
 Contract amount: \$310,582  
 NTP: June 25, 2012 Completed: May 22, 2013

Septage Handling Final Design and Construction Contract: (alternate location NDWWTP)

Contractor: VWG by Change Order to NDWWTP Project; June 26, 2012.  
 Contract amount: \$867,327  
 NTP: November 16, 2011  
 Base Contract Complete: December 13, 2012



Septage Receiving Station Completed: June 28, 2013

Hagåtña (Agaña) Process Improvement Final Design and Construction Contract (CEPT):

Contractor: GCIFI by Change Order to Moratorium Project, June 2011

Contract amount: \$10,470,000

NTP: November 30, 2012 Completed: December 31, 2014

Hagåtña (Agaña) Process Improvement Construction Management Contract Phase 1:

Contractor: GHD

Contract amount: \$241,000

NTP: February 18, 2013 Completed: March 15, 2014

Hagåtña (Agaña) Process Improvement Construction Management Contract Phase 2:

Contractor: GHD

Contract amount: \$326,450

NTP: July 1, 2013 Completed: December 31, 2014

PMO Work Authorization for Project Management Oversight Phase 1

Contractor: Brown and Caldwell

Contract amount: \$110,800

NTP: February 18, 2013 Completed: June 30, 2013

PMO Work Authorization for Project Management Oversight Phase 2

Contractor: Brown and Caldwell

Contract amount: \$171,490

NTP: July 12, 2013 Est. Completion: December 31, 2014

**Permits:**

Permits applied beginning with Guam EPA on May 9, 2013 and received conditional permit on July 8, 2013. Construction permit received dated July 29, 2013

**GWA Milestones:**

The project is complete and contractor demobilized, January 31, 2015

Problems Encountered or Anticipated:

N/A

Status:

Construction completed on September 30, 2014. Facility is in compliance with CO Discharge Water Quality. All the ongoing activities are primarily to automate the facility and not necessarily change the process.

Problems Encountered or Anticipated / Solutions / Areas of Potential Non-Compliance:

N/A

**Paragraph 7 & 8: Infiltration and Inflow (I/I) Analysis and Sewer System Evaluation Survey (SSES) and I/I Analysis and SSES Work Plan**

**Table: Project Schedule and Status**

Name	CO ¶	Project	CO Schedule	Status Details	Funding
I&I SSES	7	Collection System	N/A	<b>COMPLETED.</b> General paragraph; no deliverables.	N/A
SSES Work Plan	8	Work Plan	05/08/2012	<b>COMPLETED.</b> Work plan submitted to EPA on March 26, 2012. EPA responded on June 29, 2012; GWA submitted response on August 13, 2012 and provided subsequent equipment list on September 6, 2012. GWA was given a verbal approval by EPA of the planned equipment use on September 6, 2012.	2010 Bond
	8(a)	Flow and Rainfall Data	N/A	<b>COMPLETED.</b> Flow and Rainfall data was collected as part of the I/I analysis in paragraphs 8(b) and 8(c).	2010 Bond
	8(b)	I/I Southern	05/04/2013	<b>COMPLETED.</b> GWA submitted to EPA, I&I report for the Southern Guam waste water basins on April 25, 2013	2010 Bond
	8(c)	I/I Central	04/27/2014	<b>COMPLETED.</b> Submitted to USEPA April 28, 2014.	2010 Bond
	8(d)	SSES Southern	05/04/2013	<b>COMPLETED.</b> Compliance report submitted to EPA on April 30, 2013.	2010 Bond
	8(e) 1	SSES Central	04/27/2014	<b>COMPLETED.</b> Submitted to USEPA on 4/28/14.	2010 Bond

	8(e) 2	SSES Central Report	06/26/2014	<b>COMPLETED.</b> Submitted to USEPA on 6/27/14.	2010 Bond
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**Funding:** The above I/I SSES Program is fully funded by GWA based on planning cost estimates.

**Contracts:**

I/I Analysis and SSES Study Southern Basin Contract

Contractor: VWG  
 Contract amount: \$560,800  
 Change Order: (\$100,362.00) 3/12/2013  
 NTP: August 29, 2011      Completed: May 30, 2013

PMO Work Authorization for Project Management Oversight

Contractor: Brown and Caldwell  
 Contract amount: \$83,160  
 NTP: May 29, 2012      Completed: July 31, 2013

PMO Work Authorization for Southern Sewer Basis SSES

Contractor: Underground Services, Inc. (USi)  
 Contract amount: \$308,980  
 NTP: March 1, 2013      Completed: July 31, 2013

I/I Analysis Central Basin Contract

Contractor: Lyon Associates  
 Contract amount: \$550,000  
 NTP: September 25, 2013      Completed: April 2014

**Permits:**

Public Works Highway Encroachment Permit issued.

**GWA Milestones:**

I/I Analysis Central Basin in progress.

**Narrative:**

See Project Schedule and Status Table

Problems Encountered or Anticipated / Solutions / Areas of Potential Non-Compliance:

N/A

**Paragraph 9, 10 & 11: Agat / Santa Rita WWTP**

**Table: Project Schedule and Status**

Name	CO ¶	Project	CO Schedule	Status Details	Funding
Agat / Santa Rita	9(a)	By Pass Report	01/09/2012	<b>COMPLETED.</b> Submitted to EPA on January 4, 2012.	Revenue Fund
	9(b)	Flow Meter	05/08/2012	<b>COMPLETED.</b> Meter installed in April 2012, first meter had calibration issues; a new meter was installed on May 4, 2012. EPA submitted questions to GWA on July 26, 2012 and GWA responded on July 30, 2012.	2010 Bond
	9(c) 1,2,3	Report evaluating near term measures	05/08/2012	<b>COMPLETED.</b> GWA PMO developed a report that was submitted to EPA May 7, 2012.	2010 Bond
	9(d)	Implement approved near term measures 1	180 days after approval of report No.9(c)	USEPA letter of disapproval received August 19, 2014 with 45 day response time; GWA responded on October 2, 2014; Pending USEPA approval to GWA response.	2010 Bond
	9(e)	Implement approved near term measures 2	180 days after approval of report No.9(c)	USEPA letter of disapproval received August 19, 2014 with 45 day response time; GWA responded on October 2, 2014. Pending USEPA approval to GWA response.	2010 Bond
	9(f)	Implement approved near term measures 3	180 days after approval of report No.9(c)	USEPA letter of disapproval received August 19, 2014 with 45 day response time; GWA responded on October 2, 2014. Pending USEPA approval to GWA response..	2010 Bond
	10	System Evaluation	12/31/2013	<b>COMPLETED.</b> Report submitted to EPA Dec 31, 2013. Completed pending additional information from Baza Gardens' review.	2010 Bond
	11	System Upgrades	12/31/2016	On Schedule	2013 Bond

	11(a)	System Upgrades Design	6/30/2014	Design RFP issued March 28, 2014 with proposals submittal required on April 18, 2014. Selection, short-list and interviews conducted in May 2014. Design Engineer selected June 30, 2014. Design for Agat WWTP currently at 60% complete. Design completion of entire WWTP scheduled for August 30, 2015. Clearing and Grading design completed.. Bid for Clearing and Grading in progress for expected award mid-August 2015.	2013 Bond
	11(b)	System Upgrades Construction	06/30/2015	<p>Not on schedule: Expected NTP Phase 1: August 12, 2015. Expected NTP: Phase II: November 16, 2015. Expected Completion: December 30, 2016.</p> <p>Letter to USEPA notifying of the delay was sent on June 3, 2015 detailing the issues related to the delay. Letter from USEPA requested additional information regarding the delay was received on June 9, 2015. GWA's response was submitted June 16, 2015 to USEPA.</p> <p>Clearing and Grading Bid in progress for expected award mid-August 2015. Revised expected Completion of Grading and Clearing, January 2016.</p> <p>First stage of Multi-stage procurement for WWTP vertical construction in the process to be released for expected selection by end of August 2015. Second stage bid advertisement for vertical construction of WWTP expected before September 30 2015. Vertical construction contract award November 16, 2015. <u>Substantial completion on schedule for December 30, 2016.</u></p>	2013 Bond

**Funding:**

GWA Engineering CIP 2011-2015 funds the projects at \$3,868,000 with the 2010 Bond.

**Contracts:**

PMO Work Authorization for Near Term Measure Report

Contractor: Brown and Caldwell/EA

Contract amount: \$45,300

NTP: March 5, 2012      Completed: May 7, 2012

PMO Work Authorization for WW Systems Evaluations, Agat-Santa Rita and Baza Gardens.

Contractor: Brown and Caldwell/EA  
Contract amount: \$589,577  
NTP: July 12, 2013      Completed: July 7, 2014

Agat-Santa Rita WWTP Design Contract:

Contractor: DCA  
Contract amount: \$4,503,623.74 (Phase I (design services): \$3,593,962.22;  
Phase II (Permits & Posy Design): \$909,661.52)  
NTP: October 13, 2014      Est. Completion: August 2015

PMO Work Authorization for Management of Design for Agat-Santa Rita WWTP:

Contractor: Brown and Caldwell  
Contract amount: \$499,630.00  
NTP: January 13, 2015      Est. Completed: December 2015

**Permits:**

No permits needed at this time

**GWA Milestones:**

USEPA disapproved Near Term Measures report received August 19, 2014 with 45 day response time; GWA responded October 2, 2014; Pending EPA approval to GWA response.

Systems Evaluation – Completed evaluation by Fourth Quarter 2013. Additional information from Baza Gardens' was submitted to USEPA on April 30, 2014. Design RFP issued March 28, 2014 with proposal submittal required on April 18, 2014. USEPA disapproved Baza Garden's report received August 19, 2014 with 45 day response time; GWA responded October 2, 2014; Pending EPA approval to GWA response.

Design Engineer selection, short-list, and interviews occurred in May 2014. Final selection occurred June 30, 2014. CCU approval in August 2014. The NTP was issues on October 13, 2014. Design in progress.

The project will be completed in two phases. Phase 1:Clearing and Grating and Phase II: Vertical Construction. Letter submitted on June 3, 2015 to USEPA informing them of the delay. Additional Information was requested by USEPA on June 09, 2015. GWA

response to additional questions was submitted to USEPA on June 16, 2015. New schedule with timeline was submitted.

Clearing and Grading design completed. Bid for Clearing and Grading in progress for expected award mid-August 2015.

First stage of Multi-step procurement for Phase II: vertical construction in the process to be released for expected selection by end of August 2015. Second stage bid advertisement for vertical construction of WWTP expected before September 30 2015.

Vertical construction contract award expected on November 30, 2015. Substantial completion, on schedule for December 31, 2016.

**Narrative:**

Project Status: Design Firm offers were evaluated by the GWA selection committee. GWA elected to interview the top three candidates which took some additional time to complete. Final evaluations of the interviewed firms were completed and recommendation was sent to the General Manager for approval. Selection was made by the General Manager, negotiations were completed, CCU approved contract, GWA Legal final review of contract, and contract signed with NTP was issued on October 13, 2014.

See Project Schedule and Status Table

Solutions:

N/A

Problems Encountered or Anticipated / Solutions / Areas of Potential Non-Compliance:

N/A

Procurement documents for the IFB for the Construction Contract for the new Agat Waste Water Treatment Plant (WWTP) to meet the scheduled NTP date of June 30, 2015 required additional review.

Construction contract will be issued in two phases as necessitated to meet Guam Procurement Law. The first phase is the clearing and grading portion of the construction contract; the NTP for which is now expected to be issued by August 12, 2015. The second phase (Phase II) for the Final Completion of the new Agat WWTP Construction requires the reprogramming of GWA Bond Funds to serve this project which in turn requires CCU and PUC approval prior to issuing the bid for Phase II. Anticipated NTP for Phase II to be November 16, 2015 and the final completion of the new Agat WWTP is thus expected to be December 30, 2016.

**Paragraph 12, 13, 14: Baza Gardens WWTP**

**Schedule:**

**Table: Project Schedule and Status**

Name	CO ¶	Project	CO Schedule	Status Details	Funding
Baza Gardens	12(a)	Interim Measures Evaluation	05/08/2012	<b>COMPLETED.</b> GWA PMO developed a report that was submitted to EPA May 7, 2012. EPA approved the report August 28, 2012.	2010 Bond
	12(b)	Interim Measures complete	05/04/2013	<b>COMPLETED.</b> Refer to the GWA letter of completion dated May 1, 2013 certifying completion of the Baza Gardens urgent Structural Repairs as of April 30, 2013.	2010 Bond, SRF
	12(c)	Evaluation Biosolids Report	05/08/2012	<b>COMPLETED.</b> USEPA provided comments on February 4, 2013 and GWA provided a response to USEPA on March 20, 2013.	2010 Bond
	12(d)	Complete Biosolids	365 after approval of report of ¶.12(c)	<b>COMPLETED.</b> Scheduled after EPA review and approval of interim measure report in 12(c).	2010 Bond, SRF
	13	System Evaluation	04/30/2014	<b>COMPLETED.</b> Report submitted to USEPA April 30, 2014	2010 Bond, SRF
	14	System Upgrades	04/30/2018	On Schedule	2013 Bond, SRF
	14(a)	System Upgrades, design NTP	10/31/2015	On Schedule	2013 Bond, SRF
	14(b)	System Upgrades, construction NTP	10/31/2016	On Schedule	2013 and 2015 Bond, SRF

**Funding:**

GWA's Engineering CIP 2011-2015 funds the projects at \$4,817,000 with the 2010 Bond.

**Contracts:**

PMO Work Authorization for Near Term Measure Report

Contractor: Brown and Caldwell/GHD

Contract amount: \$46,200

NTP: March 5, 2012

Completed: May 7, 2012

Near Term Measure Construction Implementation



Contractor: Black Construction  
Change order amount: \$474,373  
Change Order for additional structural repairs: est. \$110,220  
NTP: October 30, 2012                      Completed: April 30, 2013

Near Term Measure Construction Management

Contractor: AmOrient  
Contract amount: \$56,928  
NTP: December 20, 2012                      Completed: April 30, 2013

PMO Work Authorization for WW Systems Evaluation, Agat-Santa Rita and Baza Gardens

Contractor: Brown and Caldwell/EA  
Contract amount: \$589,577  
NTP: July 12, 2013                              Completed: April 30, 2014

PMO Work Authorization for Baza Gardens WW Cross Island Pumping and Conveyance System – 10% Concept Design:

Contractor: Brown and Caldwell  
Contract amount: \$299,780.00  
NTP: January 13, 2015                              Completed: June 30, 2015

**Permits:**

None

**GWA Milestones:**

None

**Narrative:**

Project Status: Currently the Design Alternatives Report (DAR) is underway to determine recommended designs for taking the Baza Gardens WWTP out of service and adding processes to convey wastewater across the island to the new Agat-Santa Rita WWTP. DAR completed April 30, 2015. Final version of conceptual design completed June 30, 2015. Advertisement for RFP for detailed engineering design scheduled for July 2015. Estimated NTP for design is October 31, 2015.

Problems Encountered or Anticipated / Solutions / Areas of Potential Non-Compliance:

Unexpected issues related to location of easement on east side of island along government property. Expected to be resolved. Easement acquisition at Navy property on west side of island under negotiations.

**Paragraph 15 & 16: Umatac-Merizo WWTP**  
**Schedule:**

**Table: Project Schedule**

Name	CO ¶	Project	CO Schedule	Status	Funding
Umatac-Merizo	15	Complete Evaluation	12/31/2013	<b>COMPLETED</b> Evaluation submitted 12/31/2013	2010 Bond
	16	System Upgrades	12/31/2018	On Schedule	2010 Bond
	16(a)	System Upgrades, Design Starts	06/30/2016	On Schedule	2013 Bond
	16(b)	System Upgrades, Notice to Proceed	06/30/2017	On Schedule	2013 and 2015 Bond

**Funding:**

GWA's Engineering CIP 2011-2015 funds the projects with the 2010 Bond.

**Contracts:**

PMO Work Authorization for Phase I Umatac-Merizo Wastewater System Evaluation

Contractor: Brown and Caldwell

Contract amount: \$106,100

NTP: February 18, 2013                      Completed: December 31, 2013

PMO Work Authorization for Phase II Umatac-Merizo Wastewater System Evaluation

Contractor: Brown and Caldwell

Contract amount: \$205,360

NTP: July 12, 2013                              Completed: December 31, 2013

PMO Work Authorization for Umatac-Merizo WWTP Disinfection and Water Quality Standards (WQS) Monitoring Support:

Contractor: Brown and Caldwell

Contract amount: \$ \$322,030.00 NTP: January 13, 2015

Est. Completed: December 2015

**Permits:**

No permits needed at this time

**GWA Milestones:**

System Evaluation – Completed.

**Narrative:**

Project Status: Determined that a mixing zone at the WWTP discharge point in the Toguan River and a site specific variance to Guam’s water quality standards may be necessary. In negotiations with Water Environmental Research Institute (WERI) and University of Guam to assist in conducting water quality sampling and river flow monitoring at the established monitoring points on the river. A Water Quality Monitoring Plan is drafted. Disinfection design is initiated but dependent on water quality parameters. Water quality and flow monitoring to begin July 2015 and end in December 2015

Problems Encountered or Anticipated / Solutions / Areas of Potential Non-Compliance:

N/A

**Paragraph 17, 18, & 19: Sewer Cleaning / Hot Spot Identification, Inspection and Cleaning / CCTV Inspection Program**

**Table: Project Schedule and Status**

Name	CO ¶	Project	CO Schedule	Status Details	Funding
Sewer Cleaning	17	Sewer Cleaning	N/A	18.14 5.39 miles were flushed from April through June 2015. 42.91% of the required 55 miles/year.	Revenue Fund
Hot Spot Plan	18	Hot Spot Plan	05/07/2012	<b>COMPLETED.</b> Hot Spot Plan submitted to EPA on May 7, 2012; EPA responded on June 29, 2012; GWA submitted response on August 13, 2012. Updated Hot Spot Plan is being developed to reflect current conditions.	Revenue Fund
CCTV	19	CCTV	Within 2 years	18.47miles completed during April through June 2015. 44.38% completed CCTV’ed of targeted 55 miles/year for 2015.	Revenue Fund
	19	CCTV Report	Annually	Next report due October 2015	Revenue Fund

**Funding:**

Fully funded by GWA Revenue Fund.

**Contracts:**

Equipment Contract

Contractor: VWG

Contract amount: \$589,000

Purchase Award: February 29, 2012      Completed: December 2013

**Permits:**

No permits needed at this time.

**GWA Milestones:**

Acceptance of the Sewer Collection System Operation & Maintenance Program 2011 to 2016.

**Narrative:**

Project Status: see project schedule and status table above.

Problems Encountered or Anticipated:

Repairs were made to the Vactor trucks and the Vac-con trucks, however 1 of Vactor trucks and 1 of the Vac-con truck remain down for repair. A schedule for additional time for the vehicles to complete the required 55 mile/year is being developed. In June both the CCTV camera and the generator went down for repair. We are presently waiting on parts to repair the vehicles and the generator.

Contractor assisted with the flushing and CCTV services. GWA continues to verify accuracy of the unique miles captured.

Areas of Potential Non-Compliance:

N/A

**Paragraphs 21 & 22: Upgrade of Groundwater Chlorination System  
Schedule:**

**Table: Project Schedule and Status**

Name	CO ¶	Project	CO Schedule	Status Details	Funding
Groundwater Chlorination	21	Groundwater Chlorination	05/04/2013	<b>COMPLETED.</b> Letter of completion issued March 1, 2013.	2005 Bond
Chlorine Residual Monitors	22	Plan	05/07/2012	<b>COMPLETED.</b> Plan submitted to EPA on February 28, 2012; EPA responded on July 26, 2012; GWA submitted response on September 4, 2012. EPA approved the revised plan on February 27, 2013.	Revenue Fund
	22(a)	High Risk Wells	05/04/2013	<b>COMPLETED.</b> GWA submitted documentation on May 2, 2013 that monitors/alarms/shutoff/interlocks have been installed in GWA's High Risk Wells on schedule and are in operation.	2010 Bond
	22(b)	Moderate Risk Wells	11/10/2013	<b>COMPLETED.</b> Installation of chlorine analyzers completed May 29, 2013.	2010 Bond
	22(c)	All Other Wells	11/10/2014	Not On Schedule. To be completed after Moderate Risk Wells. Scope of work completed for GWA to procure engineering services Contract was officially executed on 10/14/2014 for both the Construction Contract as well as the CM contract. Effective NTP date is 10/20/2014. Construction has begun. Letter to USEPA notifying of the delay was sent on October 31, 2014 detailing the issues related to the delay. New estimated completion of project is August 2015.	2010 Bond

**Funding:**

Project Fully Funded  
 Reprogrammed \$720,000 in 2005 Bonds: February 25, 2010  
 Reprogrammed \$390,000 in 2005 Bonds: October 19, 2010  
 Contingency if needed in CIP MC 09-01, 2010 Bond  
 Additional funding may be possible through Groundwater Rule funded by SRF

**Permits:**

A building permit for the Chlorine Building was obtained in October 2011 for the project.

**GWA Milestones:**

Contract was completed on 10/14/14, with NTP on 10/20/14.

Pre-construction meeting was completed on 10/28/2014.

Construction activity started on 12/11/2014.

**Narrative:**

Project Status: see project schedule and status table above.

Scope of Work was completed and prepared for procurement. Unanticipated Delays during the procurement process resulted in delay of the NTP. However the contract was executed on 10/12/14 with NTP on 10/20/14. The contractor experienced additional delays in obtaining building permit due to a misunderstanding with the Department of Parks and Recreation- Historic Resources Division requiring additional permits for federally funded projects; since the project is not federally funded the misunderstanding was cleared up and the building permit was issued on 12/10/2014.

There has been additional delays in the in the procurement of the Chlorine Residual monitor units. The Chlorine Residual Analyzers arrived on Guam and was inspected on 12/9/2014. While the contractor has started mounting the Analyzer units, the contractor is still waiting for the arrival of the accessories, such as flow meter, PRVs, etc., that is needed to plumb the water sample line to the Analyzer. The actual arrival of these accessories can pose a delay; but project completion is estimated to be August 30, 2015.

All but four (4) of the Chlorine Residual Analyzers are now installed and commissioned, where appropriate. The remaining sites are pending arrival of enclosures, which will provide protection against the environment. Enclosures are required due to unforeseen spatial constraints affecting the mounting location. Contractor is performing electrical interconnection and upgrade work at the sites. The contractor has completed the scope of work for 48 out of 78 locations. GWA have not yet taken over the 48 sites pending final walkthrough and inspections. There is additional delay in completing the remaining locations due to a scheduling error by the contractor; who had previously reported a much earlier equipment arrival date. Error was due to contractor incorrectly assuming shipping would originate from the US when in fact the product originated from Europe. Contractor currently projects completion of all task in the scope of work to be October 2015.

**Problems Encountered or Anticipated / Solutions / Areas of Potential Non-Compliance:**

GWA notified USEPA of the delay due to procurement issues and delivery by the vendor on October 31, 2014. The new completion date is August 2015. Additional electrical upgrades to enhance the system will be completed by October 2015.

**Paragraph 23: Water Meter Improvement Program: Schedule:**

**Table: Project Schedule and Status**

Name	CO ¶	Project	CO Schedule	Status Details	Funding
Water Metering	23(a)	Plan & Schedule	05/07/2012	Meter plan submitted to EPA on May 7, 2012. 34,562 badger meters have been installed, as of December 22, 2014. 832 meters were installed from October through December 2014.	2010 Bond
	23(a)	All connections are metered and mapped	6/30/14	<b>COMPLETED.</b> GWA submitted to USEPA notification on completion. On July 7, 2014.	2010 Bond
	23(b)	Plan repair & maintain	05/07/2012	Meter plan submitted to EPA on May 7, 2012. 34,562 or 99.9% meters have been installed. Operational phase of this project as of 07/07/2014. 55 Sensus meters are remaining for installation as of June 2015.	2010 Bond

**Funding:**

Fully funded at \$8,500,000 total  
 Reprogrammed \$2,500,000 in 2005 Bonds: February 25, 2010  
 2010 bonds in amount of \$6,000,000  
 2010 bond reallocation approved by CCU (07/27/2011)  
 2010 bond reallocation approved by PUC (09-19-2011)

**Contracts:**

Meter Contract

Contractor: Badger  
 Contract amount: \$4,000,000  
 Change order: \$1,200,000  
 NTP: March 28, 2012 Est. Completion: Two 2-year options (March 2016)

**Permits:**

No permits needed at this time.

**GWA Milestones:**

Installation of meters

**Narrative:**

Project Status: see project schedule and status table above.

Water Meter Program is now completed and the water meters are being maintained as in Paragraph 23(b) Water Meter Repair and Maintenance Program.

Problems Encountered or Anticipated / Solutions / Areas of Potential Non-Compliance:

- Over 5,000 Post 2010 Metron Farnier meters have now been identified and confirmed to be in non-registering condition (nonfunctioning).
- Among these, 664 Post 2010 Metron Farnier meters (Innov-8 brand with digital screens) went blank and had to be replaced.
- Because of the critical need to manage GWA revenue, the non-registering meters were given priority over replacing old meters which were still providing some revenue.
- A portion of the Task Force was also redirected to “Disconnection for Non Payment” for the period of November 20, 2013 thru December 05, 2013. Hence the rate of Sensus to Badger change outs were completed on a when possible basis during this period.
- As of June 30, 2014, 99.9% or 32,675 meters have been installed. GWA is waiting on 3800 meters expected to arrive end of August 2014 to replace some of our POST 2010 non- functioning meters.
- As of 10/16/2014, 33,730 or 99.9% of the new badger meters have been installed. During this reporting period, and additional 1,055 have been installed.
- As of September 2014, received the 3800 meters to replace the Post 2010. GWA bench tested all of them to ensure they pass all flow rates (low, medium and high) before they were installed in the field.
- As of December 22, 2014, 34,562 badger meters have been installed. During this reporting period, 832 meters were installed.
- GWA is currently planning to replace all Metron Meters to badger to optimize meter reading performance.
- As of June 30, 2015, 55 Sensus meters are left for installations. No new installations were completed during this quarter.



- **Paragraph 24, 25, 26, & 27: Ugum Surface Water Treatment Plant: All task listed in this section are completed and reported.**

**Table: Project Schedule**

Name	CO	Project	CO Schedule	Status	Funding
Ugum Surface Water Treatment Plant.	24	Construction complete	11/10/2013	<b>COMPLETED</b> Letter of Substantial Completion May 4,2011	2005 Bond 2010 Bond SRF
	24	PE Inspection	60 days before start-up	<b>COMPLETED</b> Ref. Letter March 19, 2013	2005 Bond 2010 Bond SRF
	25	PE Performance Operation Assessment	60 days before start-up	<b>COMPLETED.</b>	2005 Bond 2010 Bond SRF
	26	O&M Plan and Procedures	90 days before start-up	<b>COMPLETED.</b> Submitted	2005 Bond 2010 Bond SRF
	27	Plant Compliance	11/10/2012	<b>COMPLETED.</b>	2005 Bond 2010 Bond SRF

**Funding:**

Project Fully Funded.  
2005 Bond  
SRF Grant  
2010 Bond

**Contracts:**

Construction Contract:

Contractor: Smithbridge Guam Inc.  
Contract amount: \$7,744,000  
NTP: March 5, 2007      Completed: December 2012

Change Order:

Contractor: Smithbridge Guam Inc.  
Contract amount: \$1,546,235

PMO Work Authorization for Phase I Construction Inspection/Operations Assessment

Contractor: Brown and Caldwell

Contract amount: \$136,000

NTP: July 2, 2012                      Completed: April 12, 2013

**Permits:**

None.

**GWA Milestones:**

None.

**Narrative:**

Project Status:

**Table: Project Status**

Name	CO	Project	Status Details
Ugum Surface Water Treatment Plant.	24	Construction complete	<b>COMPLETED.</b> Substantial completion issued in December 2012.
	24	PE Inspection	<b>COMPLETED.</b> Construction Inspector resume was sent to EPA on June 25, 2012 and EPA approved resume on August 1, 2012. Phase I construction inspection report submitted to GWA on September 25, 2012. GWA preparing corrective action plan for EPA review. The corrective action plan was submitted to EPA on November 9, 2012.
	25	PE Performance Operation Assessment	<b>COMPLETED.</b> Operations Assessment Plan submitted to EPA on September 4, 2012. Operations assessment conducted on September 4 through 7, 2012. Draft report submitted to GWA On April 10, 2013; GWA submitted Ugum Operations assessment plan to USEPA April 15, 2013.
	26	O&M Plan and Procedures	<b>COMPLETED.</b> Part of construction contract to be completed 90 days prior to completion. O&M Plan submitted on August 10, 2012. Resubmitted to EPA on May 31, 2013 and EPA approved O&M Plan on July 17, 2013
	27	Plant Compliance	<b>COMPLETED.</b> GWA submitted letter to EPA with water quality data Feb 7, 2013.

Problems Encountered or Anticipated / Solutions / Areas of Potential Non-Compliance:

N/A

**Paragraph 28: Sinajana Water Transmission Line**

**Table: Project Schedule and Status**

Name	CO ¶	Project	CO Schedule	Status Details	Funding
Sinajana Water Transmission Line.	28(a)	Transmission Line Construction Complete	05/07/2012	<b>COMPLETED.</b> Transmission line construction complete.	2005 Bond 2010 Bond SRF
	28(b)	Hydraulic Evaluation	05/07/2012	<b>COMPLETED.</b> Hydraulic evaluation submitted to EPA on May 7, 2012. Per submission statement further review was conducted and the additional analysis was submitted on July 30, 2012. EPA provided comments on November 21, 2012 and GWA provided a response on January 3, 2013.	2010 Bond
	28(c)	Construction Complete (2 tanks)	540 days after 28(b)	Delay due to extended time required for GEPA Permit approval.	2010 Bond
	28(d) 1	Monitoring Plan	90 days prior to transmission line	<b>COMPLETED.</b> Monitoring plan submitted to EPA on January 19, 2012; EPA commented on February 13, 2012; GWA resubmitted the plan on March 26, 2012. EPA had additional comments on July 30, 2012 and GWA submitted a response on September 7, 2012.	Revenue Fund
	28(d) 1	Implement-Monitoring Plan	For one year after start up	Sinajana monitoring data outlined in the plan is included as an attachment to this report.	Revenue Fund
	28(d) 2	Monitoring Plan	180 days prior to tank construction	<b>COMPLETED.</b> Submitted to EPA on June 21, 2013 the Monitoring Plan for the Sinajana Water Transmission Line for the system when the new Chaot and Agaña Heights water storage reservoirs are completed and in service.	Revenue Fund
	28(d) 2	Implement-Monitoring Plan	For one year after start up	On Schedule	Revenue Fund

**Funding:**

Project fully funded  
 Existing 2005 bonds & SRF Grant  
 Reprogrammed \$600,000 in 2005 bonds: October 19, 2010  
 2010 Bonds

**Contracts:**

Construction Contract

Contractor: Chi Construction  
Contract amount: \$1,390,000  
NTP: December 30, 2009

Completed: Fourth Quarter 2011

Contractor: GSI Pacific, Inc.  
Contract amount: \$5,857,566.54  
NTP: April 24, 2013

Estimated Completion August 31, 2015

CM Contract

Contractor: AmOrient Engineering  
Contract amount: \$639,316.90  
NTP: June 3, 2013

Estimated Completion: August 31, 2015

**Permits:**

Transmission line construction is complete.

**GWA Milestones:**

Chaot & Agaña Heights Reservoirs Design-Build Contract Award – April 2013

Start of construction of Chaot and Agaña Heights Reservoirs

- Chaot Reservoir floor slab concrete pour – June 30, 2014
- Chaot Reservoir core wall #1 concrete pour – July 28, 2014
- Chaot Reservoir core wall #2 concrete pour – August 5, 2014
- Chaot Reservoir core wall #3 concrete pour – August 12, 2014
- Chaot Reservoir core wall #4 concrete pour – August 20, 2014
- Chaot Reservoir roof concrete pour – September 11, 2014
- Chaot Reservoir final shotcrete layer – November 4, 2014
- Chaot reservoir structure completed- November 4, 2014
- Chaot Reservoir baffles and inlet manifold has been installed
- Agaña Heights Reservoir floor slab concrete pour – March 10, 2015
- Agaña Heights Reservoir core wall #1 concrete pour – April 24, 2015
- Agaña Heights reservoir structure completed – on going, Expected completion July 2015

- Agaña Heights Reservoir installing baffles and inlet manifold –Ongoing
- Agaña Heights booster pump station construction - Ongoing

**Narrative:**

Project Status: see project schedule and status table above.

Problems Encountered or Anticipated / Solutions / Areas of Potential Non-Compliance:

Challenges obtaining GEPA permit for Chaot/Agaña Heights tank project.

- 30% design for Chaot and Agaña Heights tank project were as submitted to GEPA on April 18, 2013. GEPA provided their 30% design comments on June 12, 2013. Guam EPA has advised that the 30% design submittal may not meet the requirements of the Safe Drinking Water Act as stipulated under 22GAR, Part II “Guidelines for waterworks development”. GWA disagreed with GEPA’s interpretation of the SDWA since it appeared overly influenced by staff bias.
- 60% design for Chaot and Agaña Heights tanks were submitted to GEPA on May 31, 2013. This was submitted before GEPA provided their 30% comments.
- Meeting with GEPA, GWA, and AmOrient was conducted on June 11, 2013 to discuss GEPA’s 30% comments for both tanks. At this moment, GEPA will not approve the Chaot and Agaña Heights Reservoir Replacement project. GWA, BC, and AmOrient met with GEPA on Wednesday (July 17, 2013) to provide a presentation to Angel Marquez and Director Eric Palacios regarding the project (how the model was developed, how the proposed project is adequate, how it meets the SDWA, etc...)
- A copy of the hydraulic model was provided to GEPA on July 15, 2013. A copy of the hydraulic model input data was provided to GEPA on August 9, 2013 addressing the three areas of concern.
- Meeting with GEPA, GWA, BC, and AmOrient was conducted on July 17, 2013. Presentation regarding the project (how the model was developed, how the proposed project is adequate, how it meets the SDWA, etc...) was conducted by Brown and Caldwell and presented to Angel Marquez. At the conclusion of the meeting, GEPA provided three areas of concerns with the project: 1) Water quality, 2) Consumer demand and fire flow, 3) Impact to service areas and residual pressures.
- GWA’s response to GEPA’s 30% comment for Chaot and Agaña Heights tanks were provided to GEPA on August 9, 2013.
- GEPA provided response to the 60% design for Chaot and Agaña Heights tanks submittal on September 13, 2013.
- GWA and BC met with GEPA on October 3, 2013 to resolve permit requirements.
- GWA provided the 90% design submittal to GEPA for Chaot on October 07, 2013.

- GWA's response to GEPA's 60% comment was provided to GEPA on October 08, 2013.
- GWA provided "second notice" response to GEPA's 60% comment on November 13, 2013.
- GEPA provided response to the 90% design submittal on November 15, 2013.
- Construction permit for Chaot Reservoir only was issued November 27, 2013. Agaña Heights Reservoir has not been approved by GEPA. A total of **223** days was required for GEPA to signed the permit for the Chaot tank project.
- GWA's response to GEPA's 90% comment for Agaña Heights tank was provided to GEPA on December 24, 2013.
- As of April 3, GWA receive conditional approval for the construction of the Agana Heights Tank. It has been a total of **346** days since the submission of the Agaña Heights tank design.
- Ground breaking for the Agana Heights tanks held on April 28, 2014.
- Contractor used non-conforming under tank soil material at the Chaot site. GWA required the Contractor to remove portions of the under tank foundation. Contractor re-worked the under tank foundation to conform to project specifications. Expected completion is fourth quarter 2015.
- Work was delayed at the Agana Heights site until the approval of the soil material to meet the project specification.
- Construction is well on its way for the Agana Heights tank. Expected completion is fourth quarter 2015.

**Paragraph 29: Water Reservoir Condition Assessment**

**Table: Project Schedule and Status**

Name	CO ¶	Project	CO Schedule	Status Details	Funding
Storage Tank/Reservoir Rehabilitation and Replacement Program.	29(a) 1	Plan hydraulic analysis	02/08/2012	<b>COMPLETED.</b> Submitted to EPA on February 6, 2012; EPA provided comments on September 29, 2012. GWA submitted a response on November 1, 2012. EPA approved the revised plan and schedule on February 27, 2013.	Revenue Fund
	29(a)(2)	Hydraulic analysis	05/02/2013	<b>COMPLETED.</b> Hydraulic assessment report submitted to EPA on May 2, 2013 (emailed in three parts).	2010 Bond
	29(b)(1)	Plan minimize service interruptions	90 days after approval analysis	<b>COMPLETED.</b> GWA's plan to assess GWA's tanks/reservoirs without disruption of water distribution was submitted on May 28, 2013.	2010 Bond
	29(b)(2)	Tank inspection schedule	05/04/2013	<b>COMPLETED.</b> Schedule submitted to EPA together with hydraulic assessment report on May 2, 2013 (emailed in three parts)	2010 Bond

29(b)(3)	<p>Complete Barrigada Tank No.1 (2 MG reservoir)</p> <p>Ongoing Barrigada Tank No. 2 (2MG)</p>	05/04/2013 (Tank No.1)	<p><b>COMPLETED</b> Contract awarded for Barrigada tank design, construction management, and construction services. Construction contract initiated in December 2012. Construction contractor has notified GWA that the new substantial completion date will be August 28, 2013. Letter was sent to USEPA on March 28, 2013 requesting a 90 day extension. Tank structure construction has completed in September 2013. Construction contractor has notified GWA that the tank will be operational November 4, 2013. Tank went into continuous operation on December 18, 2013.</p> <p>Construction Notice to Proceed for Tank No. 2 (2MG) issued on May 30, 2014. Final layer of tank shotcrete cover was applied on April 23, 2015. Tank is expected to put into service by the end of May 2015. Tank in service on June 22, 2015.</p>	2010 Bond 2013 Bond  DOI grant
29(b)(4)	Assess additional 7 reservoirs	11/10/2016	<p><b>On Schedule</b> Astumbo #2, Inarajan, and Upper Nimitz reservoir inspections were completed in May 2013. GWA planning inspections on the Santa Rita, Lower Nimitz, Rancho Camacho, and Lasafua reservoirs in were delayed; new date appears to be March 2015. Change order for repair for contractor to install the Santa Rita bypass was delayed Bypass work will start January – February 2015. Santa Rita reservoir bypass has been installed. Bypass system has not been tested as GWA has been experiencing operational issues in the Santa Rita area. GWA will inspect Mangilao No. 1 instead of Santa Rita. Tanks will include Mangilao No. 1, Lower Nimitz, Rancho Camacho, and Lasafua reservoirs. GWA will inspect Mangilao No. 1, Pulantat, Lower Nimitz, Rancho Camacho, and Lasafua. Target date for completion of inspection will be August 2015.</p> <p>Engineering is working with A/E firm to develop system bypass for several sites.</p>	2010 Bond
29(b)(5)	RRR 7 additional reservoirs	11/10/2016	On Schedule	2010 Bond 2013 Bond
29(b)(6)(i)	RRR 10 additional reservoirs	11/10/2018	On Schedule	2010 Bond 2013 Bond
29(b)(6)(ii)	RRR remaining reservoirs	12/31/2020	On Schedule	2010 Bond 2013 Bond

	29(c)	Quarterly / Annual Reports	Quarterly	On Schedule	Revenue Fund
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**Funding:**

Tank Inspection Funding:

Fully Funded  
 Reprogrammed \$500,000 in 2005 bonds: February 25, 2010  
 Reprogrammed \$750,000 in 2005 bonds: October 19, 2010  
 2010 bonds in amount of 2,900,000  
 Contingency if needed in CIP PW 09-11

Barrigada Tank No. 1 Funding

2010 bonds  
 DOI grant

Barrigada Tank No. 2 Funding

2013 bonds

Mangilao Tank No.2 Funding

2010 bonds

**Contracts:**

Professional Service Contract for Tank Inspection:

Name Firm: Duenas, Camacho & Associates  
 Contract amount: \$1,151,061  
 NTP: August 1, 2008      Estimated. Completion: On-going

Minor Repairs Contract:

Contractor: Core Tech International  
 Contract amount: \$2,440,500  
 NTP: April 13, 2010      Estimated. Completion: On-going



Barrigada Tank No1. 1 and No. 2 Design Contract:

Contractor: Parsons Water &I Infrastructure

Contract amount: \$658,552

NTP: June 24, 2011      Completed: Fourth Quarter 2012

Barrigada Tank No. 1 and Tank No. 2 Construction Management Contract

Contractor: GHD

Contract amount: \$1,383,779.00

NTP: June 27, 2012      Estimated Completion: July 31, 2015

Barrigada Tank No.1 and Tank No.2 Construction Contract

Contractor: dck Pacific

Contract amount \$10,293,284.21

Tank No. 1 NTP: December 17, 2012      Substantial Completion: December 18, 2013(Tank No.1 in service)

Tank No. 2 NTP: May 30, 2014      Substantial Completion: July 27, 2015 (Tank No. 2 in service)

Mangilao Tank No. 2 Major Repair Contact

Contractor: GSI Pacific, Inc.

Contract amount: \$912,387.53

NTP: October 1, 2013

Completion: January 2, 2015 – Tank repair complete and in service

Yigo #1, Yigo #3, Astumbo #1, and Yigo Elevated Design Contract

Contractor: LYON Associates, Inc.

Contract amount: \$728,913.31

NTP: September 23, 2013

Expected Completion Date: July 31, 2015

Yigo #1, Yigo #3, Astumbo #1, and Yigo Elevated Construction Management Contract

Contractor: GHD

Contract amount: \$1,387,982.00

NTP: January 06, 2015

Estimated Completion: TBD pending construction contract

Northern, and Southern Reservoir Designs ( Ugum, Santa Rita, Santa Rosa, Inarajan, Sinifa)

Contractor: TG Engineers

Contract amount: \$2,532,580

NTP: May 28, 2015

Completion: Various target dates meeting Court Order deadlines

Central Reservoirs Design (Hyundai, Pulantat/Manenggon Hills, Chaot #2, Piti, Tumon #1, Tumon #2)

Contractor: GHD

Contract amount: \$2,552,445.00

NTP: May 28, 2015

Completion: Various target dates meeting Court Order deadlines

PMO Work Authorization for Hydraulic Model

Contractor: Brown and Caldwell/EA

Contract amount: \$364,200

NTP: May 15, 2012      Completed: May 2013

**Permits:**

A building permit was issued on December 5, 2012 for the Barrigada No. 2 (Tank No. 1) Reservoir.

**GWA Milestones:**

GWA awaiting EPA comments on Hydraulic Plan

**Narrative:**

Project Status: see project schedule and status table above.

- Ground breaking for the Barrigada Tank No 2 held on May 29, 2014.

Reservoirs Inspected:

Actual	Tank	Condition	Status
07/10	Agaña Heights	Severe	Construction awarded to GSI Pacific
07/10	Piti*	Severe	Replacement - action pending hydraulic model results
07/10	Chaot	Severe	Construction awarded to GSI Pacific
11/10	Astumbo No.1	Severe	Design RFP (Astumbo No. 1, Yigo No. 1, and Yigo Booster Station) was solicited on April 16, 2013. Proposals were submitted on May 10, 2013. Contract awarded to Lyon on September 23, 2013. 90% design submittal was rejected on October 2014 by GWA due to incompleteness. Design was resubmitted and is under review by GWA and CM. Anticipate final plans and specifications to be ready for construction bid in March 2015. This project will have new designs ready for construction for Yigo #1, Yigo #3, Astumbo #1, and Yigo Elevated reservoirs.
11/10	Yigo No.1	Low	See above – Astumbo #1 Status
11/10	Mangilao No.2	Medium	IFB was solicited on April 30, 2013. Bids were submitted on June 11, 2013. Contract awarded to GSI Pacific, Inc. on September 23, 2013 Estimate completion data is September 30, 2014. Tank will be in service by January 2 2015.
04/11	Malojloj Elev.	Severe	Design is currently at the 90% design phase. 100% plans and specification is under review by GWA's legal counsel. Tentative IFB bid is targeted for May 2015.
04/11	Yigo Elevated	Severe	Not economically repairable. Upgrade onsite pump station to address service area. See above – Astumbo No. 1 Status.
04/11	Agat No.2	Low	Repairs completed October 2012
04/11	Nissan	Medium	Potential abandonment - action pending hydraulic model results
5/13	Astumbo No. 2	Severe	Repair
5/13	Inarajan	High	Potential abandonment – action pending hydraulic model results.
5/13	Upper Nimitz	Medium	Repair

Problems Encountered or Anticipated / Solutions / Areas of Potential Non-Compliance:

Planning outages for the next sets of tank inspections – Santa Rita, Lower Nimitz, Rancho Camacho, and Lasafua.

GWA is working on developing bypass plans for all remaining tanks.

Problems Encountered or Anticipated / Solutions / Areas of Potential Non-Compliance:

Santa Rita reservoir bypass has been installed. Due to operational issues, GWA engineering is not able to test the bypass.

Pulantat tank is offline and will be inspected in August 2015.

Mangilao tank is offline and will be inspected in August 2015.

GWA is working on developing bypass plans for all remaining tanks.

**Miscellaneous Problems Encountered or Anticipated / Solutions / Areas of Potential Non-Compliance**

Continued significant time delays due to the Public Utilities Commission (PUC) failure to approve in a timely manner GWA PMO budget to support progress and completion of court order-related projects. It takes approximately 200 days for PUC to review and approve work authorizations necessary to accomplish court ordered deadlines.

## **Part 2: GWA Management Compliances Reporting Tools**

The part 2 documents are submitted with this document as separate files for convenience in using them individually.

### Court Order Report Card (formerly Dashboard):

Filename: *Part 2-CourtOrderReportCard07-15-2015.pdf*.

The Two Year Dashboard focused on meeting the 2011 Court Order requirements due in the first two years and the critical path items of the 2011 Court Order. The Dashboard also tracks milestones, the due dates of the Court order and more importantly in the note section, it tracks the responsibilities and due dates for the GWA management. The Dashboard is updated as needed and is submitted with this document as a separate file.

### Sludge Monitoring Data 4(b)

Filename: *Part 2-2nd Qtr 2015 Report - CO 4 b Sludge Management.pdf*

A graph showing the amount of sludge produced and the cost for disposal is submitted with this document as a separate file.

### Sinajana Monitoring Data 28(e)

Filename: *Part 2 Sinajana Monitoring Data CO 28 e 2015Q2.pdf*.