




Guam SOLID WASTE RECEIVER

Quarterly Report
of
Receivership for the Government of Guam
Guam Solid Waste Authority
Pursuant to the Order of the
United States District Court of Guam

Presented by
Gershman, Brickner & Bratton, Inc.
July 18, 2012




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Guam SOLID WASTE RECEIVER

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1. ORDOT DUMP CLOSURE PROGRESS



April 2012 – June 2012
Field Investigations




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Additional test pitting for waste delineation


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Ordot Dump Closure Progress

Site Investigation Work



- Additional waste delineation
 - Two Right of Entry obtained for lots 37 and 39 at the northwest corner of the site in early April allowed for additional test pitting work in June
 - Test pits needed to evaluate the waste limit, waste depth over these two lots and west side
- Geotechnical work
 - Completed Geotechnical Report
 - Provides data on subsurface soil conditions with emphasis on strength parameters for stability analysis




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Test pit work


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Ordot Dump Closure Progress

Site Investigation Work (cont'd)



- Gas migration wells
 - Phase I gas monitoring took numerous air samples from 12 gas monitoring wells
 - Air samples were analyzed and became the basis for locating Phase II wells to further investigate areas with concentrations of landfill gas
 - Monitoring results continue to indicate gas migration off the north edge of Dump along Dero Road
 - Final mitigation of this gas will likely be accomplished by relocation of the waste away from Dero Road



Gas migration monitoring


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Ordot Dump Closure Progress

Site Investigation Work (cont'd)

- Hydrogeologic Investigation
 - Objective: The objective of the hydrogeologic investigation is to identify the water-bearing zone or zones that might be impacted by leachate or stormwater from the Ordot Dump. This information is used to develop a three-dimensional picture of the subsurface geologic features.
 - The Phase I report (submitted in May) presents field investigation data collected in Phase I and a preliminary conceptual hydrogeologic model – no conclusions or detailed analyses at this time
 - Location of Phase II wells (4 installed) guided by Phase I investigations
 - Data from Phase II will be used to further develop the Hydrogeologic Model


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Ordot Dump Closure Progress

Site Investigation Work (cont'd)

- Landfill gas generation wells
 - Objective: To measure the quantity and quality of gas produced by the Ordot Dump to inform the design of the gas management system and evaluate potential uses of the gas
 - Sampling completed early April
 - Data will aid in evaluating gas generation over closure period
 - Preliminary landfill gas Technical Memorandum completed (May)


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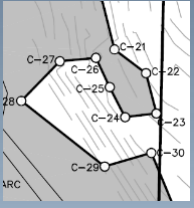
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Ordot Dump Closure Progress

Site Investigation Work (cont'd)



- Leachate sample collection
 - 3 locations sampled (June)
 - Sample represents dry season conditions
 - Same 3 locations to be sampled in wet season
- Wetland delineation
 - Wetland delineation completed around site
 - Wetland map approved by Department of Agriculture, Guam EPA, and U.S. Army Corps of Engineers


East side leachate sample location


Portion of wetland map


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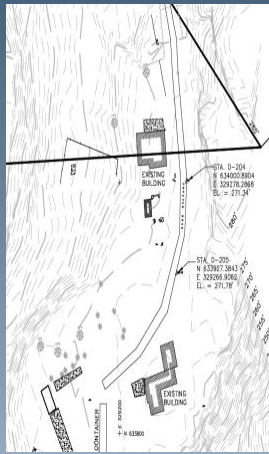
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Ordot Dump Closure Progress

Site Investigation Work (cont'd)



- Topographic surveys
 - Completed (June), some refining of contours ongoing
- Property boundary and research
 - Completed (May)
 - Additional work as needed to support the Attorney General's work



Topo /property survey


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Ordot Dump Closure Progress

Site Investigation Work (cont'd)

- Archaeological monitoring
 - Completed for all field work completed to date
 - All future work will also include professional archaeological monitoring
 - Ongoing report development and consultation with the Historic Preservation Office throughout closure design period
 - All archaeological finds will be handled in full compliance with Guam law and regulation


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Ordot Dump Closure Progress

Site Investigation Work (cont'd)



- Unexploded ordnance monitoring
 - Monitoring performed throughout additional test pit work around site (June)
 - Findings include 3 U.S. Navy 105 mm shell powder casings with flash tubes in the trash located in the northwest corner of the Dump
 - Monitoring will continue
- Additional findings in this same location included suspected asbestos-containing building material waste



Recovered Shell Casings


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Ordot Dump Closure Progress

Site Investigation Work (cont'd)

- Other related field work:
 - Maintained interim soil cover and stormwater drainages
 - Maintained fire breaks
 - Provided project progress documentation through regular field progress reports
 - Performed maintenance of facilities to support ongoing investigations


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Ordot Dump Closure Progress



Closure Design Work

- Interim cap design
 - Additional cost/benefit analyses was performed at the request of U.S. EPA on the concept of an interim cap placement over existing intermediate soil cover
 - Receiver has provided an evaluation to EPA recommending against the use of an interim cap
- Conceptual closure design
 - Continued development and evaluation of the closure design continued throughout the quarter
 - A draft report of the design concept for closure is now being reviewed by the Receiver and design team
 - Anticipate a draft design concept report to be completed in the next quarter



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Ordot Dump Closure Progress

Closure Design Work (cont'd)

- Wetland Mitigation Plan
 - The impact of the closure to wetlands requires mitigation
 - Mitigation is accomplished by creating, restoring, enhancing or preserving wetlands on site and in other areas of Guam
 - GovGuam's 2005 plan indicated that the mitigation would occur in the Hagatna River watershed on Lot 87-5-R1 owned by GovGuam
 - The Department of Parks & Recreation (DPR) plan to create Hagatna Central Park renders the 2005 plan unfeasible
 - DPR has suggested two other properties as potential mitigation sites – one in the Masso River watershed and the other in the Pago River/Pago Bay watershed
 - Receiver will work with DPR in the next quarter to evaluate these sites



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2. LAYON LANDFILL AND CONSENT DECREE PROJECTS

April 2012 – June 2012

- Access Road
- Environmental Monitoring and Compliance
- Residential Transfer Stations


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Layon Landfill and Access Road

- Access Road – Final pavement placed/stripped
- Fuel supply system now operational
- Progress on final punch list
 - Addressed an issue concerning the Maintenance Building roof
 - Continued establishment of vegetation on slopes
- Warranty work – performed as needed



Final paving and striping completed


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Environmental Monitoring and Compliance

- Continued bi-weekly GEPA/EPA/Receiver coordination meetings for all regulatory and permit aspects of work
- Ensured ongoing compliance with all permits
- Ongoing Landfill Facility Permit compliance
 - Performed quarterly sampling for stormwater
 - Performed sub-drain tank monitoring
 - Obtained renewal of operating permits as required



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Environmental Monitoring and Compliance (cont'd)

- Inarajan WWTP monitoring
 - Monitored marine waters and wastewater throughout period for baseline and landfill operations data
 - Submitted fourth quarterly monitoring report (Dec. 2011– Feb. 2012) to GWA, GEPA and EPA
 - Results for March thru May 2012: plant is handling new flows from landfill without adverse impacts to the WWTP
- Continued preparation of permit applications for transfer stations (Agat, Dededo, Malojoj, and Harmon/HHW)
 - Before permit applications are finalized, property and environmental issues need to be addressed



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Residential Transfer Stations



Agat, Dededo, Harmon, Malojoj

- Residential Transfer Stations never permitted
- Permits now required as condition of Layon Landfill permit
- Design of Harmon Transfer Station nearing completion
 - Submitted design plans for Harmon Transfer Station and HHW facility for DPW building permit in May; still under review
 - Facility also to include recycling drop-off containers, compactors for trash and cardboard, GSWA vehicle wash system, GSWA vehicle lot
 - Finalized bid documents and under review by Attorney General before advertising for bids
 - Received Harmon Transfer Station severance map approval from Department of Land Management – June 22, 2012
- Upgrades to other Residential Transfer Stations to follow



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Residential Transfer Stations (cont'd)

Environmental Site Assessments



- Findings document the need to perform corrective actions to clean up transfer stations during renovations
- Assessments under review by GEPA/EPA
- Findings include both on-site and associated off-site conditions that may require additional investigation, in coordination with GEPA

- Property Status
 - Agat: Lot is under Chamorro Land Trust Commission (CLTC) and only authorized use on lot is the present residential transfer station



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Residential Transfer Stations (cont'd)

- Property Status (cont'd)
 - Dededo: Lot is under CLTC but leases are unclear in area and other uses occurring on lot of the residential transfer station; follow up with CLTC; Attorney General needed to clarify
 - Malojoj: Lot reserved by GEPA in 1977 for residential transfer station; lot is under the CLTC and only authorized use on the lot is the present residential transfer station



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Supplemental Environmental Project (SEP)

- Requirement of the Consent Decree
- Requires the establishment of a household hazardous waste facility – GSWA responsibility
- The new Household Hazardous Waste (HHW) Facility co-located with the Harmon residential transfer station satisfies the requirement of a HHW facility
- Requires the establishment of a household hazardous waste collection program – GSWA responsibility
- The planned collection of HHW at all four GSWA residential transfer stations satisfies the requirement for a collection program
- Procurement for the construction and operation of the program will occur in the next quarter




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3. OPERATIONS OF THE GUAM SOLID WASTE AUTHORITY



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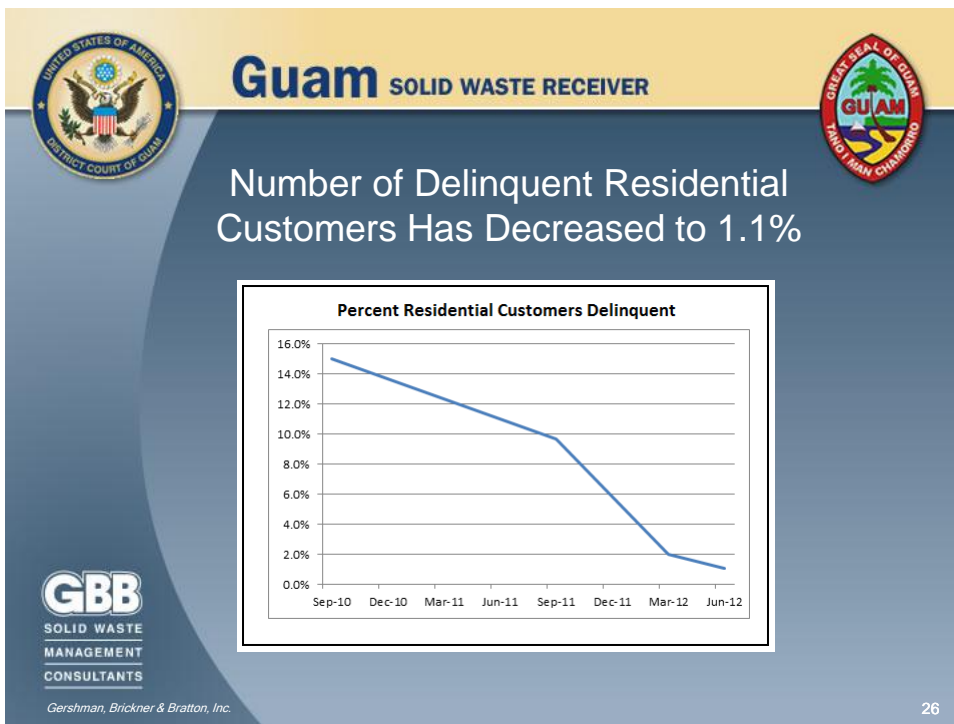
Administration

- Continued development of Standard Operating Procedures to guide operations of GSWA
- Installed new phone system to improve customer service
 - 4,547 calls received for customer service, operations, procurement and human resources
 - 98% of calls to Customer Service Line answered; 2% given option to leave voice mail
 - Average time before speaking with a customer service representative: 13 seconds
- GSWA staff number 55, down 44% from 2008



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Residential Trash and Bulky Waste Collection





- Performed 221,000 residential trash collections; 99.79% were on time
- No cart repairs needed during the quarter
- Performed 117 bulky waste collections; picked up 270 large items

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Hauler-Only Transfer Station



- Began operations on September 1, 2011
- Transports over 90% of the waste received at the Layon Landfill *
- Average waste April – June 2012: 225 tons per day
- Total waste April – June 2012: 20,513 tons, 4,220 loads
- Consolidating waste at transfer station reduces truck traffic to Layon Landfill
- Escort vehicles, for safety purposes, accompany all transport trucks to the Layon Landfill

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* The remaining waste delivered to the Layon Landfill was approved by GSWA for direct delivery to the landfill without going through the Hauler-Only Transfer Station.

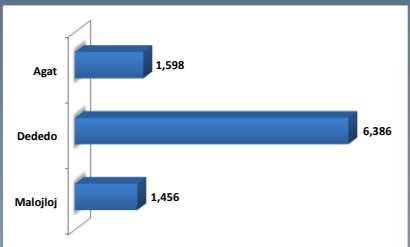
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Residential Transfer Stations

- Customer use of 3 residential transfer stations remains high
- Dededo used most due to location in densely populated area
- Fees (effective September 1, 2011)
 - Under 3 CY \$7.50
 - Over 3 CY \$15.00
 - Recycling is free

Customers using transfer stations, April-June





Location	Number of Customers
Agat	1,598
Dededo	6,386
Malojoj	1,456


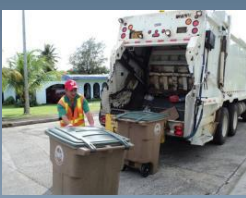


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4. CURBSIDE RECYCLING PILOT PROGRAM



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Curbside Recycling Pilot Program

Results after 12 months:



- Contamination rate dropped from 14% in first quarter to 7% at end of fourth quarter
 - 5% considered excellent; 10% acceptable
- Overall set-out rate: 57%
- Set-out rate evaluated for 3 frequencies of collection

	Possible Set Outs Per Month	Actual Set Outs	Set-out Rate
Monthly	2,796	2,149	77%
Weekly	34,190	18,634	55%
Biweekly	4,326	2,584	60%
Total	41,312	23,367	57%



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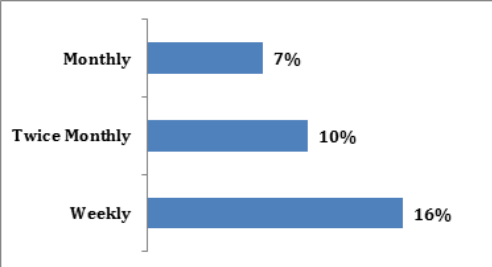
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Curbside Recycling Pilot Program (cont'd)

Recycling Rate Based on Collection Frequency

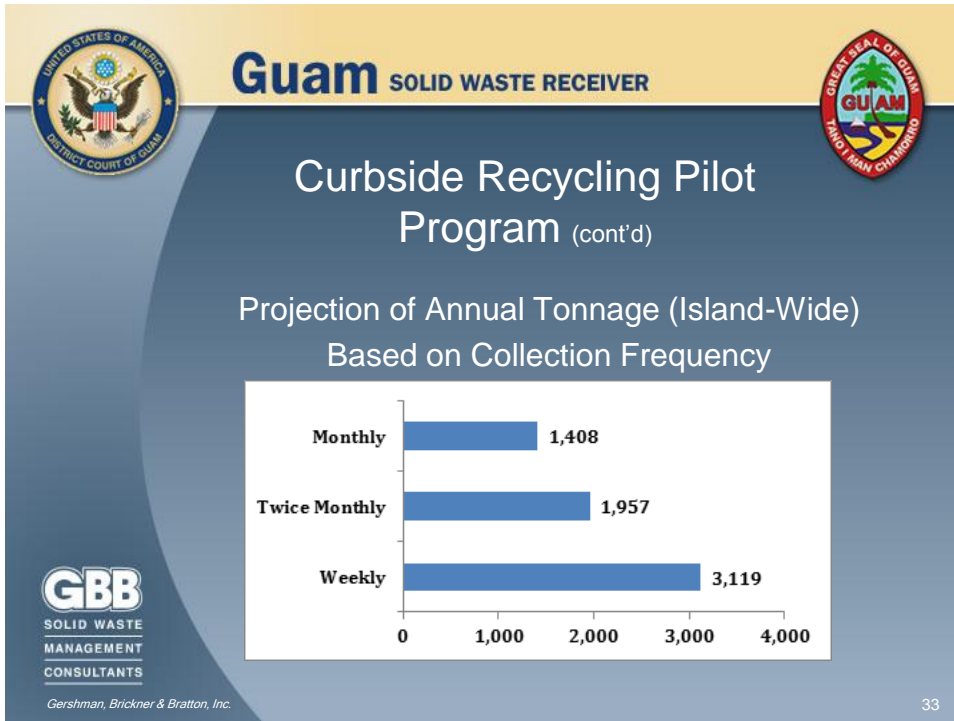


Collection Frequency	Recycling Rate
Monthly	7%
Twice Monthly	10%
Weekly	16%

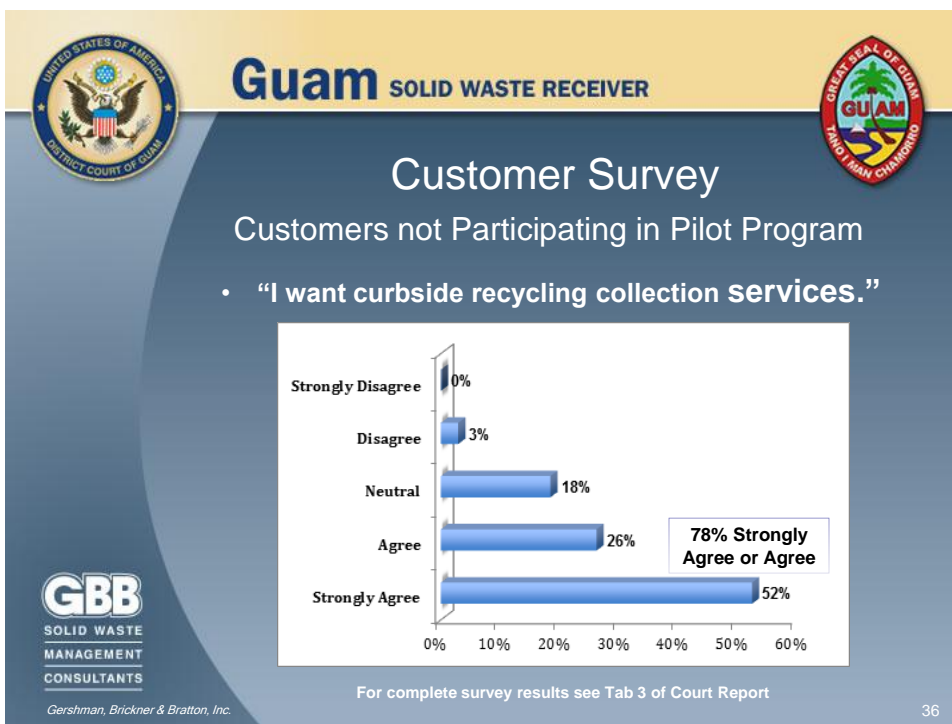
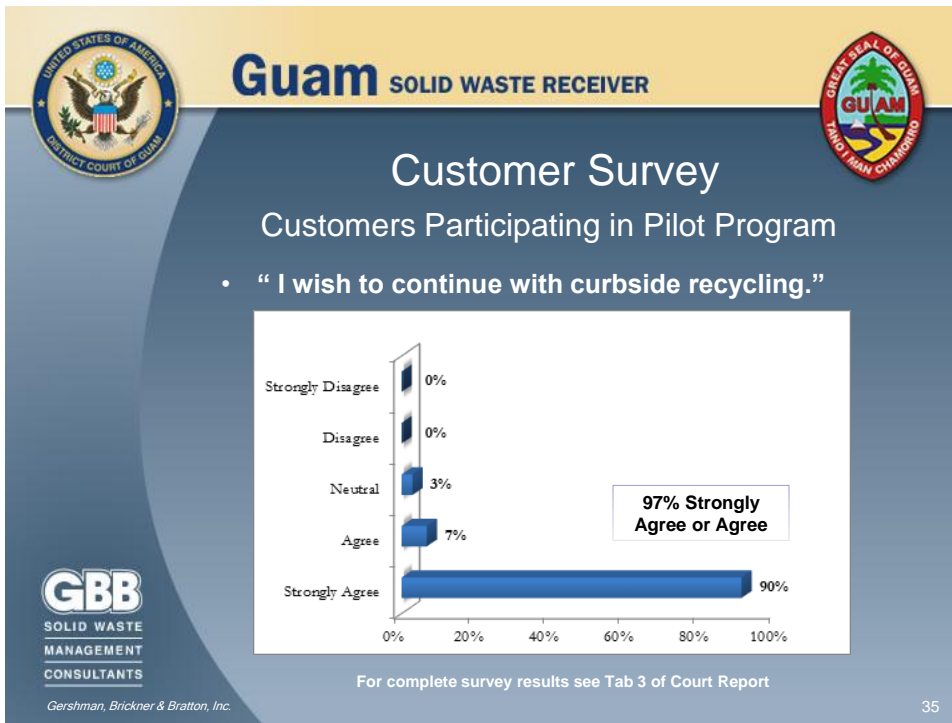




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- ## Guam SOLID WASTE RECEIVER
- ### Curbside Recycling Customer Surveys
- GSWA administered two phone surveys: one to 105 curbside recycling pilot customers; the other to 103 customers not participating in the pilot program
 - Survey of participants was designed to obtain opinions about program and recycling habits
 - Customers with different collection frequencies were sampled
 - Survey of non-participants asked about interest in curbside recycling collection
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Curbside Recycling Evaluation

Evaluated pros and cons of four scenarios for island-wide curbside recycling collection:

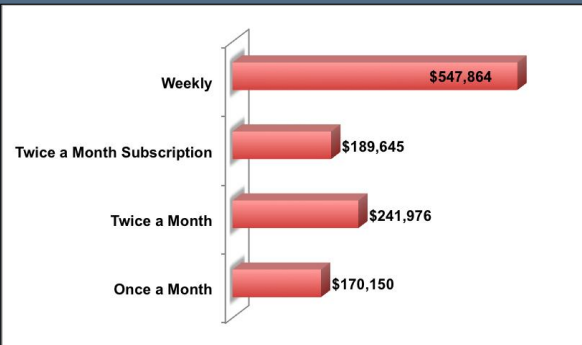
1. **Monthly collection** for all GSWA customers: less equipment, fewer employees but customers may need more than one cart and less material is collected
2. **Twice-monthly collection** for all GSWA customers: more balance between expense and material collected, more operational flexibility but doesn't divert the most material
3. **Weekly collection** for all GSWA customers: easy to remember schedule, diverts the most material, but requires the most equipment and employees and may require capital purchases
4. **Subscription collection** where customers sign up: higher participation and recycling rates but requires customers to take an extra step and might exclude some who would participate


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Island-Wide Curbside Recycling Annual Collection Costs





Collection Scenario	Annual Collection Cost
Weekly	\$547,864
Twice a Month Subscription	\$189,645
Twice a Month	\$241,976
Once a Month	\$170,150

Does not include processing cost


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Curbside Recycling Pilot Next Steps

- GSWA customers generate relatively small amount of material
- GSWA issued Request for Interest (RFI) for processor of single stream recyclables
- Two interested parties responded, June 27
- Evaluation of responses underway
- Subsequent procurement or contract negotiations will be needed to determine processing cost




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5. CONTRACT MANAGEMENT AND PROCUREMENT



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Procurement Activities April 2012- June 2012



- Worked to finalize RFP for HHW Program and procurement documents for construction of new residential transfer station at GSWA
- Sold, at fair market value, excess heavy equipment, formerly used at Ordot Dump, for total of \$94,658.97

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Excess equipment sold by competitive sealed bids


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6. FINANCIAL ISSUES AND CAPITAL FUNDING

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Expenditures 11.9% Below Approved Budget for First 8 Months of FY2012

**Guam Solid Waste Authority
Summary of Operating Budget
FY 2012**
October 1, 2011 to May 31, 2012


Item	Total Annual Budget	Budget to Date	Actual Spending / Revenue to Date	% over (under) Budget
Personnel Expenses	\$3,399,429	\$2,266,286	\$1,545,054	-31.8%
Other Expenses / Reserves	\$14,575,555	\$9,717,037	\$9,016,920	-7.2%
Total Expenses / Reserves	\$17,974,984	\$11,983,323	\$10,561,974	-11.9%
Total Revenue (All Sources)	\$15,947,000	\$10,631,333	\$11,618,344	9.3%
Budgeted From Fund Balance	\$2,027,984	\$1,351,989	\$0	-100.0%
Total Funding Available	\$17,974,984	\$11,983,323	\$11,618,344	N/A
Surplus / (Deficit)*	\$0	\$0	\$1,056,370	N/A

* Surplus goes to reserve for future years (i.e., fund balance) and deficits are covered by the same reserve.
** Budget revised in December 2011 to reflect revised rate model.




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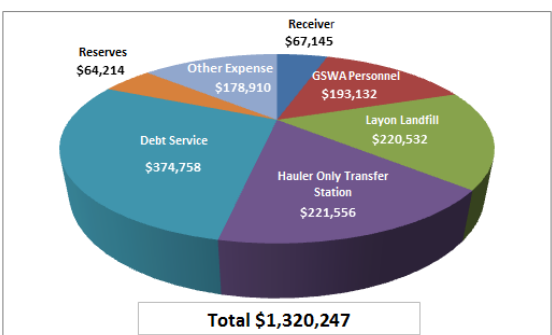
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GSWA Average Monthly Expenditures
October 1, 2011 to May 31, 2012





Receiver	\$67,145
GSWA Personnel	\$193,132
Layon Landfill	\$220,532
Hauler Only Transfer Station	\$221,556
Debt Service	\$374,758
Other Expense	\$178,910
Reserves	\$64,214
Total	\$1,320,247



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Revenue Billed and Collected



GSWA Revenue Billed / Collected			
October 1, 2011 through May 31, 2012			
Customer Class	Billed	Collected	%
Commercial	\$ 7,031,748	\$ 7,042,519	100.2%
Residential	\$ 4,058,942	\$ 4,275,374	105.3%
Government	\$ 252,697	\$ 17,977	7.1%
Total	\$ 11,343,388	\$ 11,335,870	99.9%

Note: Amount collected is on a cash basis. Transfer Stations are included in the residential category. Interest income excluded.



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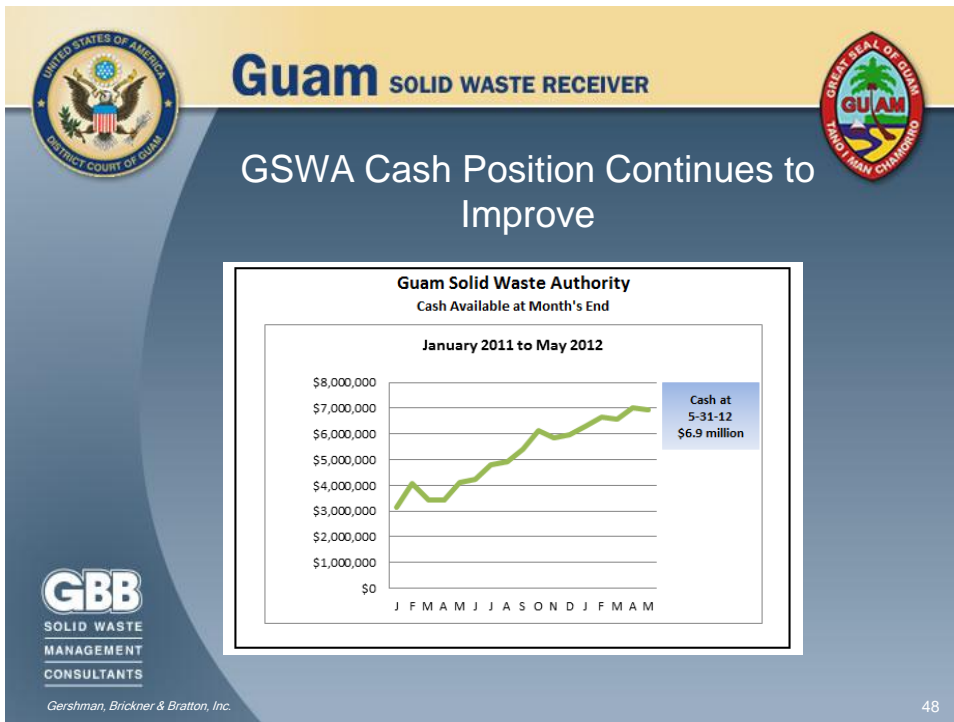
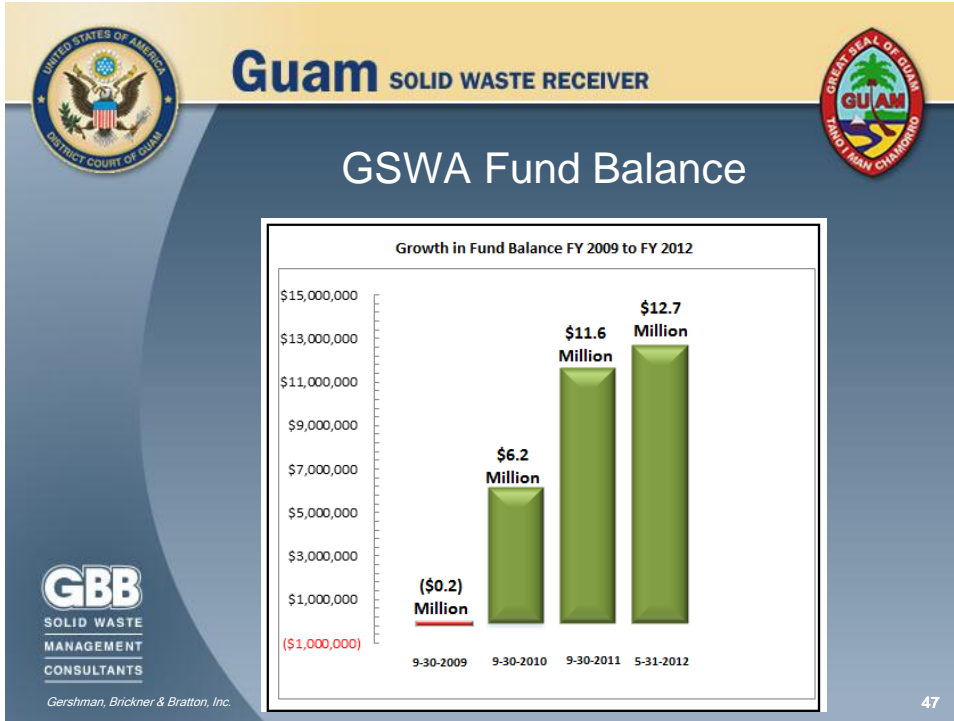
Collections from Other Accounts


- Guam Waterworks Authority (GWA)
 - GWA's account balance, now \$805,397.54
 - GWA made its first payment in June
 - Resolution of GWA account balance will be considered by the PUC this summer
- Other government customers currently owe \$106,875
 - Receiver continues to work with Dept. of Administration to address unpaid balances
- Small commercial accounts
 - These accounts are private organizations that haul only for themselves
 - Presently owe a total of \$16,213.45
 - Attorney General has advised that these organizations must have a GEPA Permit to haul trash



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FY 2013 GSWA Budget

Guam Solid Waste Authority
Operating Budget
FY 2013
October 1, 2012 to September 30, 2013


Item	Paid through Citibank	Paid through GovGuam	Total Budget
Personnel Expenses	\$ 900,000	\$ 1,778,600	\$ 2,678,600
Other Expenditures / Reserves	\$12,690,226	\$2,303,074	\$14,993,300
Grand-total Expenditures / Reserves	\$ 13,590,226	\$ 4,081,674	\$ 17,671,900
Total Revenue (All Sources)			\$18,368,200
Surplus / (Deficit)**			\$696,300

* Budget assumes the current rate option. If the PUC approves the full Government Reimbursement option or a second landfill is approved, this item will need to be adjusted. **Surplus goes to reserve for future years (i.e. fund balance) and deficits are covered by the same reserve.




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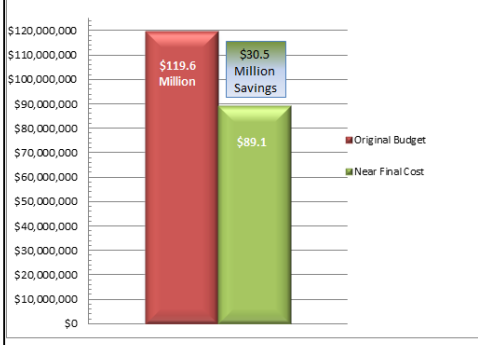
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Capital Funding and Savings

Estimated Capital Savings
Layon Landfill and Associated Projects





Category	Value
Original Budget	\$119.6 Million
Near Final Cost	\$89.1 Million
Savings	\$30.5 Million

Savings will be applied to future construction needs at the Layon Landfill to the extent the funds are not needed to fund the Ordot Dump closure




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7. UPDATE: RATE RECOMMENDATIONS TO PUC



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Three Rate Options Submitted to the Public Utilities Commission

- **Current Rate Option**
 - Under this option rates are not increased
 - All GSWA expenses and required reserves fully funded
 - GovGuam reimbursement for debt service not increased
- **Full Government Reimbursement Rate Option**
 - Rates increased 30% for commercial customers and residential customers increased to \$45 per month over 3 years with a \$5 per month increase in 2013, 2014 and 2015
 - GovGuam is fully reimbursed for all debt service on the Layon Landfill and associated projects
- **Two Landfill Rate Option**
 - Required if Guam approves a second landfill
 - Rates are significantly reduced
 - GovGuam receives no reimbursement for debt service



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Three Rate Options Submitted to the Public Utilities Commission

Customer Type	Current Rate*	Full Gov't Reimbursement Rate	Two Landfill Rate**
Commercial (per ton)	\$172.00	\$225.00	\$110.00
Residential (per month)	\$30.00	\$35.00	\$20.00
Residential Transfer Station	\$7.50 / \$15	\$7.50 / \$15	\$7.50 / \$15
Cost to GovGuam	\$7,483,397	\$0	\$11,737,208



*The effective commercial rate per ton is \$156 per ton when haulers pay on time, electronically using ACH, and do not use Public Law 25-93.

**Assumes approval of GRRP Permit



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Waste Disposed at Layon Landfill



Customer Group	FY 2011	FY 2012	% Change
Residential	14,901	15,264	2.4%
Commercial	38,063	40,368	6.1%
Military	-	6,006	N/A
Government	1,660	1,650	-0.6%
Mayors	1,072	1,040	-3.0%
Transfer Stations	3,972	4,130	4.0%
Other	27	78	190.2%
Total	59,696	68,537	14.8%

Note: Prior to September 1, 2011 waste disposal was at the Ordot Dump.



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Bridge and Roadway Repairs and Replacements



Status of Consent Decree Bridge and Roadway Projects

Project	Completion Date 8/29/11 Status Report	Completion Date in 6/25/12 Status Report
Ylig Bridge Replacement	February-12	December-12
Togcha Bridge Rehabilitation	March-12	February-12
Talofofo Bridge Rehabilitation	March-12	August-12
Route 4 Pago Bay to Route 17	July-12	February-13
Route 4 Togcha River to Ipan Beach	Summer-12	Fall-12
As-Alonso Area of Route 4	TBD	TBD
Route 4 Safety Issues	TBD	TBD




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Guam SOLID WASTE RECEIVER

8. NEXT STEPS ARE INCLUDED IN TAB 1 (Narrative Report)




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Si Yu'us Ma'ase



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