The community’s technical experts have been, and will continue to be, involved as the remedial system design is completed and the plan is implemented.

After the FEDP approves the RAP Addendum, Lockheed Martin will gather and incorporate the community’s input and communicate with the community about the steps it will take moving forward.

How can I be confident that the new system will be safe?

To ensure proper and safe operation, the groundwater extraction and treatment system will:
- Include triple redundant systems,
- Undergo regular inspections and testing,
- Be staffed 24 hours a day, seven days a week, and
- Undergo monitoring, with sampling and analysis to confirm performance.

For more information:
On the RAP Addendum and other Lockheed Martin activities in Tallevast, go to www.tallevast.info.

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Introduction
This Citizens’ Guide is designed to help Tallevast residents and other interested parties better understand Lockheed Martin Corporation’s proposed cleanup plan for the former Loral American Beryllium Company (ABC) facility at 1600 Tallevast Road in Tallevast, Fla.

Lockheed Martin submitted its Remedial Action Plan (RAP) Addendum to the Florida Department of Environmental Protection (FDEP) in July 2009. The RAP Addendum includes elements from the Corporation’s two previously submitted RAPs as well as updated solutions based on input from the FDEP and the community.

This Citizens’ Guide describes key elements of the RAP Addendum, including the comprehensive environmental investigation process used to assess the contamination, the interim cleanup measures that have been taken to date, and the proposed approach for cleaning up groundwater and contaminated soil at the facility.

Lockheed Martin assumed ownership of the property in 1996 when it acquired Loral Corporation. Lockheed Martin stopped operations at the facility in late 1996, and in 2000, sold the facility. The new owner leased the facility to other companies until June 2007, then leased to Lockheed Martin for two years. Lockheed Martin repurchased the property in June 2009.

Why did Lockheed Martin take responsibility for the cleanup?

Lockheed Martin assumed responsibility for the environmental investigation and cleanup at the site, because it owned the property when the contaminants were discovered in 2000.

What contaminants were discovered?

Contaminants found in soils at the facility included polycyclic aromatic hydrocarbons (PAHs) and metals such as arsenic, copper, chromium and beryllium. Several groundwater contaminants were detected, including 1,4-dioxane, tetrachloroethene (PCE) and trichloroethene (TCE).

Background
What is the history of the property?

The former ABC facility was operated by Loral Metals Technology as an ultra-precision machine parts manufacturing plant from 1961 to 1996. There, metals were milled, lathed and drilled into various components. Some of the components were finished by electroplating, anodizing and ultrasonic cleaning.

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Are these contaminants a health threat?  
The Florida Department of Health has stated that the environmental contamination in Tallevast gives no indication of a public health threat.

What did Lockheed Martin do to minimize health risks?  
Lockheed Martin has worked to prevent further contamination and to ensure drinking water safety for residents. In 2006, the Corporation implemented an interim groundwater treatment system and a well-closure program to reduce the potential for human exposure to impacted groundwater and to limit the chances that the groundwater contamination could spread.

Since it was installed, the interim groundwater treatment system has extracted and treated millions of gallons of groundwater. The well-closure program has offered incentives to close private water supply wells within the cleanup area. Manatee County continues to restrict the construction of new supply wells in the area.

Lockheed Martin also paid the fees for the community’s technical consultant to conduct air monitoring. The consultant’s study confirmed that the ABC site and the community have not been exposed to harmful vapors.

How did Lockheed Martin determine the scope of the contamination?  
Lockheed Martin conducted extensive investigations, collected significant design data, and gathered input from the FDEP and the community’s independent technical experts.

Lockheed Martin collected soil samples from more than 1,400 boring locations and groundwater samples from more than 275 monitoring and 11 extraction wells.

The Corporation also developed a detailed, three-dimensional groundwater model that was used to predict whether the remediation would be effective and how long it would take to complete the cleanup.

The results of the computer modeling helped the experts determine the best methods for placing wells, controlling the spread of contamination, and removing the contaminants. To ensure its accuracy, the model was calibrated against actual on-site tests, which validated that the computer modeling was accurate.

The Remedial Action Plan (RAP) Addendum  
What is the RAP Addendum?  
The RAP Addendum is the culmination of substantial work conducted by Lockheed Martin, its contractors, the local community’s technical experts, community members, and the state to design the best solutions for reducing human exposure to on-facility soil and for cleaning up groundwater from the former American Beryllium Company site. Lockheed Martin submitted the RAP Addendum to the FDEP on July 14, 2009.

What is the RAP Addendum based on?  
The RAP Addendum was developed based on assessments of the facility, assessments of the site geology and hydrogeology, characterization of the nature and extent of soil and groundwater impacts, an evaluation of remedial technologies, and forecasts of time required to complete the cleanup.

This isn’t the first plan that Lockheed Martin submitted, is it?  
This RAP Addendum is a revision of the RAP submitted to FDEP in August 2008. It also retains elements of the original RAP, which was submitted in May 2007. The RAP Addendum incorporates suggestions from the FDEP and members of the community on design, construction and other processes.

How is the RAP Addendum different than the RAP submitted in 2008?  
There are many distinct changes that were incorporated into the treatment-process design after receiving comments from the FDEP and the community. For example, based on suggestions, Lockheed Martin now plans to locate treatment process equipment, storage tanks, and chemical tanks in a single, stand-alone building instead of in multiple buildings or outside. Another example is that based on recommendations, the building foundation for containment is being designed with the capacity to hold 110 percent of the process water and liquid chemicals contained in the building at any time.

The Proposed Cleanup Plan  
What are Lockheed Martin’s cleanup objectives?  
Lockheed Martin’s major cleanup objectives are to reduce the potential for human exposure to contaminants in soil at the facility and in groundwater, contain the plume of impacted groundwater, and reduce concentrations of contaminants in the groundwater to meet regulatory standards. With an emphasis on safety, the RAP Addendum includes all of the steps that will be taken to ensure the remediation system is constructed and operated safely.

What work has been proposed for the soil cleanup?  
The proposed plan calls for leaving soils in place and managing the contaminants through institutional and engineering controls. Access to the facility will be restricted by fencing and on-site security. Visitors to the facility and employees will be protected from exposure by barriers that cover the impacted soils. Deed restrictions that mandate appropriate soil management practices will prevent inappropriate changes to the facility.

What work has been proposed for the groundwater cleanup?  
The proposed approach for the groundwater cleanup includes:

• Expanding the existing recovery system for capturing and extracting contaminated water,
• Constructing a new state-of-the-art groundwater treatment system,
• Installing extraction and injection wells to pump groundwater from on-facility areas with the greatest mass of contaminants, and
• Installing additional monitoring wells to effectively evaluate the capture and removal of the groundwater plume. The groundwater plume will be actively extracted and treated until concentrations are below target levels set forth by the State of Florida.

Can Lockheed Martin start right in with the cleanup after receiving approval?  
Actually, there are numerous jobs that must be completed before the cleanup could begin. That work will involve preparing the site and constructing the system.

Once the recommended cleanup plan is approved by the FDEP, it will take Lockheed Martin about two to two-and-a-half years to construct the system and begin operations.

Lockheed Martin will involve the community and its experts in the design and construction planning phases of the project.

How does Lockheed Martin plan to collaborate with the community during this project?  
Lockheed Martin wants to partner with the community in the implementation of the remedial solution. The RAP Addendum reflects Lockheed Martin’s commitment to investing in the environmental and economic needs of the community and to minimizing the impact of the remediation work on residential properties.

The Proposed Groundwater Treatment System for Lockheed Martin Tallevast Site