

## *Lockheed Martin Newsletter Update*

In the early 1990s, the Maryland Aviation Administration began conducting a series of environmental investigations of the Martin State Airport in consultation with the Maryland Department of the Environment (MDE).

A possible link between contamination on the airport property and historical operations at Lockheed

Lockheed Martin is conducting an extensive, ongoing surface-water sampling program to monitor contaminant levels in Frog Mortar Creek adjacent to the Dump Road Area of Martin State Airport and across the creek near Edwards Lane.

Although Lockheed Martin has been monitoring surface water in Frog Mortar Creek since 2004, it expanded the sampling program after detecting higher levels of contaminants in March 2011 than had previously been detected.

Today, sampling is conducted six times per year between March and December, with monthly testing between June and September. The 2012 monitoring results to date showed that contaminants did not pose health risks to people swimming in the creek.

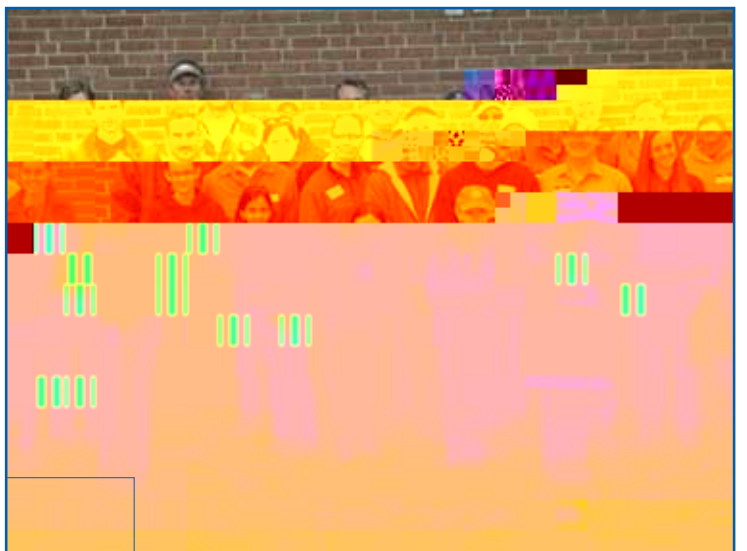
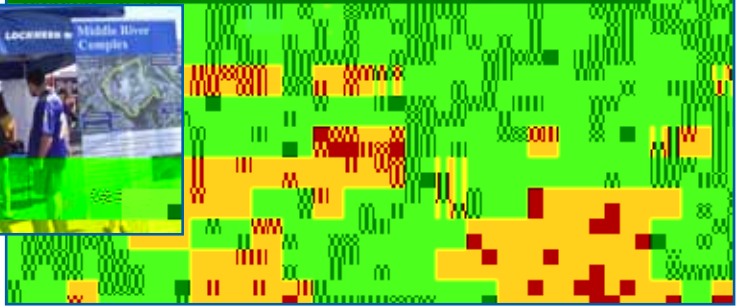
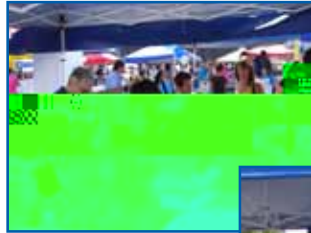
Lockheed Martin conducts the sampling program in collaboration with the Maryland Department of the Environment (MDE). The Corporation also developed human health risk calculations that are used to gauge the sampling results.

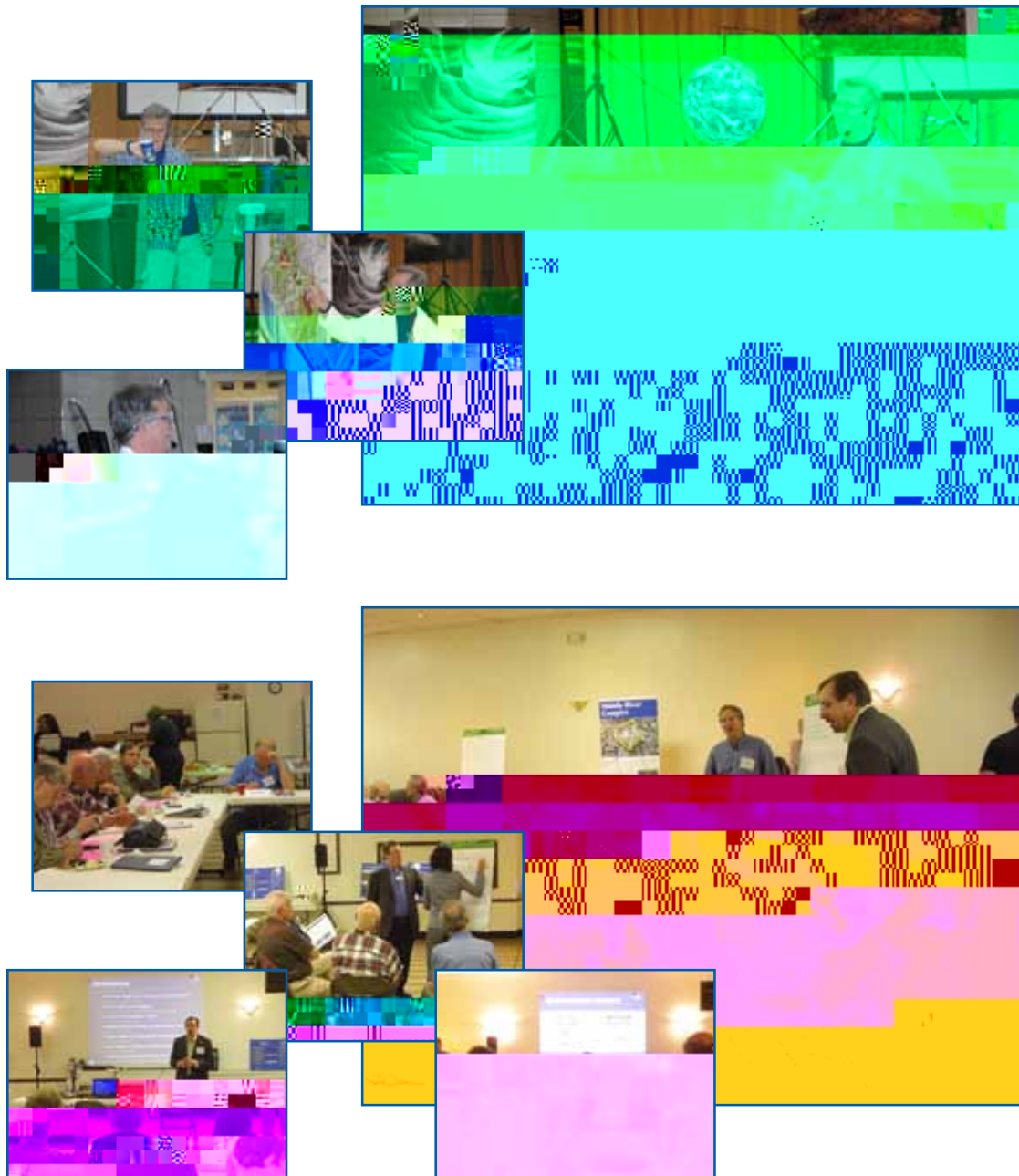
To date, the sampling results have not indicated a need to actively restrict access to the area; however, people are advised to limit swimming in the portion of the creek located closest to the Dump Road Area shoreline of the Martin State Airport property.

In fact, in April 2012, MDE issued a water contact advisory for that creek area adjacent to the Martin State Airport. The advisory do3(t)-143(o)-5.2717(u)-5.2717(u0(h)-16(i)3(b)12(i)13(t sw)-14(i)-17(m)-27(m)-17(i)-18(n)7(g)12(; i)13(t )

Since the extensive sampling program began, there has been a pattern of lower contaminant concentrations in warm weather and higher contaminant concentrations in cold weather. For each surface-water sampling event, the team takes a total of 40 samples — starting at the same 10 specifically chosen sample points on the shoreline, then at 50 feet, 100 feet and 200 feet from each of the shoreline points.

Lockheed Martin is proposing a treatment system that will capture and treat groundwater in the Dump Road Area of Frog Mortar Creek. The Corporation expects to reduce surface-water contaminant concentrations in the future by containing the movement of contaminated groundwater toward the creek. However, monitoring will





Lockheed Martin is committed to working with and being a part of the communities in which it has operations. Lockheed Martin employees and the technical teams working on environmental cleanup projects at the Middle River Complex and Martin State Airport often team together with local community members to enhance life in the area. As you'll see in this photo collage, Lockheed Martin team members are involved. Lockheed Martin annually hosts information tables at Essex Day and

As it moves forward on the groundwater Interim Remedial Action, Lockheed Martin also is conducting extensive investigations to better characterize the source areas of contamination in the Dump Road Area of the airport. This characterization will assist in the development and design of cleanup for the Dump Road Area.

Lockheed Martin is planning a pilot-scale treatability test for groundwater in the Dump Road Area. A work plan for the proposed test will be submitted to MDE, and the test is anticipated to occur in the spring of 2013.

Lockheed Martin recently submitted the first in a series of permit applications — a Water Appropriations and Use permit — to the Maryland State Department of the Environment (MDE) for the groundwater Interim Remedial Action project in the Dump Road Area of Martin State Airport.

The permit is required to ensure that only specified amounts of water are pumped from the aquifer. A public hearing may be held, although it has not yet been scheduled, and notifications will be made to adjacent property owners.

As the project proceeds, other permits will be required from regulatory agencies for efforts such as the construction of the groundwater treatment facility, certain tree clearance, and water discharge, to name a few.

Lockheed Martin is conducting environmental investigations to determine the source areas for groundwater contamination in the Dump Road Area of Martin State Airport. The results of the investigations will help determine future environmental cleanup at the site.

Field work was conducted throughout September and October. Where possible, an environmental investigation technique called direct-push sampling was used. Lockheed Martin collaborated with the Maryland Department of the Environment (MDE) on developing the scope of the sampling.

The direct-push technique drives small rods or tools into the subsurface to collect data. In several locations where groundwater samples could not be collected by use of the direct-push sampler, temporary wells were installed to obtain samples.

These measures will be followed by full remediation in the future that will address remaining PCB contamination in soil and the storm drains.

Lockheed Martin is continuing to characterize soil contaminants at the Block E site and will be developing a Response Action Plan containing a proposed remediation strategy that will be submitted to regulators in 2013.

In early September 2012, Lockheed Martin conducted soil investigation activities in Block G, a parcel of land near North American Electric and east of Cow Pen Creek in the Middle River Complex.

The purpose of the investigations was to investigate areas where transformers containing PCBs were potentially buried, as alleged by a long-time employee. Geophysical surveys were performed using ground penetrating radar and metal detection equipment. The work also included soil sampling for laboratory analysis.

To date, the reported transformers have not been located, nor has any evidence for their presence been identified.

Lockheed Martin is conducting environmental investigations at the site and will submit a Response Action Plan to the Maryland Department of the Environment (MDE) in 2013.

Lockheed Martin has been involved for more than a decade in environmental cleanup projects at the Lockheed Martin Middle River Complex and Martin State Airport in Middle River, Md.

Through it all — environmental investigations, testing, planning, cleanup proposals, and ongoing project work — the Corporation’s environmental cleanup projects have been enhanced by one consistent factor: community collaboration.

“We are so grateful to the community for collaborating with us, because it contributes to the smooth process flow and helps us complete these projects more effectively and efficiently,” said Tom Blackman, Lockheed Martin Project Lead. “It has been and will continue to be a real team effort between Lockheed Martin and our neighbors.”

For its part in the team effort, Lockheed Martin recently received the Chesapeake Gateway Chamber of Commerce 2012 “People’s Choice Award.”

The chamber — which serves an area on the east side of Baltimore County — honored Lockheed Martin for its “substantial efforts” related to the environmental investigations and cleanup projects at the Middle River Complex and Martin State Airport.

In nominating Lockheed Martin for the award, Robert Bendler, president of the Essex-Middle River Civic Council, applauded Lockheed Martin for voluntarily accepting responsibility for the cleanup projects and for addressing adjacent properties and waterways in addition to Lockheed Martin-owned buildings and land.

“The thoroughness and professionalism of their staff and contractors has been stellar, and from a community perspective, equally impressive has been their communication and openness,” Bendler wrote in the Essex-Middle River Civic Council’s nomination letter. “They have made concerted efforts to brief our communities on their planned activities, test results, pt

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