



Infrastructure · Water · Environment · Buildings

ARCADIS of New York, Inc.  
465 New Karner Road  
Suite 2  
Albany  
New York 12205-3839  
Tel 518.452.7826  
Fax 518.452.7086

**Transmittal Letter**

To:  
Ms. Ruth Curley  
NYSDEC  
Remedial Bureau B  
625 Broadway, 12<sup>th</sup> Floor  
Albany, NY 12233

Copies:  
Charles Trione, Lockheed Martin  
James Zigmont, CDM  
Peter Milionis, ARCADIS  
Greg Rys, NYSDOH  
Dale Truskett, Lockheed Martin  
Kay Armstrong, Armstrong & Assoc.  
Ginny Robbins, BS&K  
Richard Zigenfus, ConMed  
File

From:  
Lisa Collins

Date:  
July 28, 2011

Subject:  
WWTP Monitoring Report

ARCADIS Project No.:  
NJ001022.0001

**We are sending you:**

Attached

Under Separate Cover Via \_\_\_\_\_ the Following Items:

Shop Drawings

Plans

Specifications

Change Order

Prints

Samples

Copy of Letter

Reports

Other: \_\_\_\_\_

Copies	Date	Description	Action*
1	7/28/11	WWTP Monitoring Report, Former Lockheed Martin French Road Facility, Utica, New York.	AS

**Action\***

A Approved

CR Correct and Resubmit

Resubmit \_\_\_\_\_ Copies

AN Approved As Noted

F File

Return \_\_\_\_\_ Copies

AS As Requested

FA For Approval

Review and Comment

Other: \_\_\_\_\_

**Mailing Method.**

U.S. Postal Service 1<sup>st</sup> Class

Courier/Hand Delivery

FedEx Priority Overnight

FedEx 2-Day Delivery

Certified/Registered Mail

United Parcel Service (UPS)

FedEx Standard Overnight

FedEx Economy

Other: Email

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Ms. Ruth Curley  
New York State Department of Environmental Conservation  
Division of Environmental Remediation  
625 Broadway  
Albany, New York 12233-7258

ENVIRONMENT

Subject:  
WWTP Monitoring Report  
Former Lockheed Martin French Road Facility, Utica, New York

Dear Ms. Curley:

Date:  
July 28, 2011

On behalf of Lockheed Martin Corporation (Lockheed Martin), ARCADIS is submitting this summary of inspections completed following closure activities of the former wastewater treatment plant (WWTP) at the former Lockheed Martin French Road Facility at 525 French Road in Utica, New York. Closure activities were previously completed, as presented within the *Report on Final Closure Activities of the Wastewater Treatment Plan* (ARCADIS 2010). The closure report presented the activities undertaken at the WWTP, including:

Contact:  
Jeffrey Bonsteel

Phone:  
518.452.7826 x19

Email:  
[jeffrey.bonsteel@arcadis-us.com](mailto:jeffrey.bonsteel@arcadis-us.com)

Our ref:  
NJ001022.0001

- Repaired the roof drain.
- Characterized, removed, treated, and discharged the standing water in the basement of the WWTP building and associated tanks.
- Removed and managed residual materials (including sediment) observed in pipelines to facilitate proper capping or plugging of the pipes.
- Capped or plugged each of eight WWTP influent and effluent pipes.

As indicated in the final report, ARCADIS recommended that monthly inspections for one year (June 2010–June 2011) be completed to observe any recurrence of water in the WWTP basement. The following sections provide a summary of those monthly inspections.

### Monthly Inspections

Monthly inspections were completed by ARCADIS between June 2010 and June 2011. A summary of these inspections are included in Table 1. A site plan is provided as Figure 1.

As shown in Table 1, the activities defined above (repairing roof drain, removing water, capping/plugging of piping) were completed in June 2010. The monthly inspections indicated that, in general, groundwater was not infiltrating the basement at a rate to cause significant measurable water.

Some groundwater weeping, through the concrete sump, is assumed to be occurring based on the presence of water in the sump; however, it does not appear to be occurring at a significant rate (note that the elevation of the WWTP basement floor is several feet below groundwater elevation in this area of the site). Water has also been observed to enter the basement from leaking piping, as well as precipitation that enters the basement from the first floor of the WWTP (rain and snowmelt has been observed to enter the WWTP basement by sheet flow under the rolling overhead door and through floor penetrations of the concrete floor of the WWTP, from former piping). During the monthly inspections, a nominal amount of groundwater and/or surface drainage was observed in two monitored locations (the eastern and western sumps, as shown on Figure 1). These sumps are approximately 2 by 2 feet, with a depth of approximate 2 feet below the surface of the basement floor.

The water in the sumps may potentially be groundwater, but is more likely the result of leaking piping observed into the WWTP basement (i.e., the source of water is likely condensate or runoff). Observations made during August 2010, October 2010, and January 2011 indicated that previously capped pipes were leaking into the basement. Corrective actions undertaken at these observed locations included removing and replacing capping, which were successful in eliminating these observed leaks as of the June 2011 inspection. These corrective actions are discussed in the following section.

### **Corrective Actions**

Several influent and effluent pipes, previously cut and capped as part of WWTP closure activities, were observed during the inspection period as leaking water. In each case, the source of the leak was identified as an insufficient or poorly installed cap or plug. On August 5, 2010, pipes A4 and A5 (as indicated on Figure 1) were closed and tightened. Pipe A4 (the northernmost pipe) appeared to continue dripping.

On two occasions (November 11, 2010 and February 9, 2011), ARCADIS made improvements to previously conducted plugging of WWTP piping. On November 11, 2010, threaded plugs with pipe dope and Teflon tape were replaced at pipes A4 and A5 (as shown on Figure 1). These activities successfully stopped the dripping previously noted at these locations. On February 9, 2011, a new plug was installed in

Pipe O (also shown on Figure 1). This replacement successfully stopped dripping water at this location.

These improvements have been successful and have corrected any continued leaking into the WWTP basement.

### **Observance of oil in the eastern sump**

During the June 2011 monthly inspection, a light-colored oil was noted in the eastern sump of the WWTP basement. After investigation, it was concluded that an existing, historic sump pump (no longer in operation) had cracked, and its content of lubrication oil had emptied into the sump (co-mingling with a minimal amount of standing water in the sump).

In response, ARCADIS removed and containerized the standing water/oil mixture (approximately 20 gallons, cumulative), and used absorbent pads to remove any residual oil on the concrete walls or bottom of the eastern sump. The faulty sump pump was also removed from the sump. At the time of this report, the oil/water mixture was being arranged for off-site disposal (to the CWM Model City Landfill). The western sump did not contain a pump.

The eastern sump is a concrete cast sump formed within the basement and there is no readily available influent or effluent flow to or from the sump. Based on these facts, Lockheed Martin concluded that the observation of oil in the eastern sump did not constitute a reportable spill to the New York State Department of Environmental Conservation (NYSDEC). This was verbally communicated to NYSDEC (Ms. Ruth Curley) in a call from ARCADIS on June 14, 2011 (and confirmed by NYSDEC).

### **Conclusions**

Based on the observations and actions taken over the past year, infiltration of groundwater into the WWTP basement does not appear to be occurring, since conditions have stabilized following corrective actions taken during the winter to further secure the pipes. On behalf of Lockheed Martin, ARCADIS will continue to conduct monthly inspections of the WWTP basement as part of our routine site inspections to observe any recurrence of water in the WWTP basement. If water continues to enter the basement, ARCADIS will develop a plan to manage the water and submit the plan to NYSDEC for their review and approval. Please contact the undersigned if you have questions or comments.

Sincerely,

ARCADIS of New York, Inc.



Jeffrey Bonsteel  
Associate Project Manager



Peter Milionis  
Project Manager

Copies:

Charles Trione, Lockheed Martin  
James Zigmont, CDM  
Greg Rys, NYSDOH  
Dale Truskett, Lockheed Martin  
Kay Armstrong, Armstrong & Assoc.  
Ginny Robbins, Bond, Schoeneck & King, PLLC  
Richard Zigenfus, ConMed



Table 1. Former Wastewater Treatment Plant Monthly Inspections, Former Lockheed Martin French Road Facility, Utica, NY.

Date	East Sump Water Measurement	West Sump Water Measurement	Additional Observations	Corrective Action/O&M
6/30/2010	NM <sup>1</sup>	NM <sup>1</sup>	None	Basement water pumped to MH-2; roof drain repaired; influent/effluent piping cut and capped per final closure activities.
7/8/2010	5.5"	9.25"	Slight drip from 1" line entering WWTP basement; ConMed reported it may be an air line; ConMed turns air line off - still dripping	No Action Taken
8/5/2010	5.5"	9.25"	Two 6" pipes previously capped (located below stairs on western wall) observed to be dripping water. Previously noted air line continues to drip water.	Plugs in pipes closed and tightened. Northern of 2 pipes continues to drip.
9/7/2010	5.75"	10"	None	No Action Taken
10/6/2010	11"	22.5"	Trace drip at single 6" pipe in basement; no standing water.	No Action Taken
11/2/2010	10.5"	19.4"	Slight overflow from west sump onto floor	Pumped 17.6 gallons from west sump into manhole MH-2. Reinstalled threaded plugs for two previously capped pipes with pipe dope and teflon tape (11/11/10)
12/20/2010	10.5"	15.5"	None	No Action Taken
1/21/2011	11"	> 22.5"	Slight overflow from west sump onto floor. Observed northmost of three 6" pipes leaking	See 2/1/11 entry.
2/1/2011	11"	> 22.5"	None	Pumped 66 gallons from west sump into manhole MH-2 (2/1/11). Installed new female adapter and plug on northern pipe (2/9/11).
3/4/2011	10.25"	10.75"	None	No Action Taken
4/4/2011	9.5"	10.75"	None	No Action Taken
5/12/2011	10.25"	10"	None	No Action Taken
6/2/2011	11"	9"	Oil noted in Eastern Sump.	Oil/Water was removed as well as cracked sump pump identified as the origin of the oil. Sump was cleaned out and no residual oil noted.

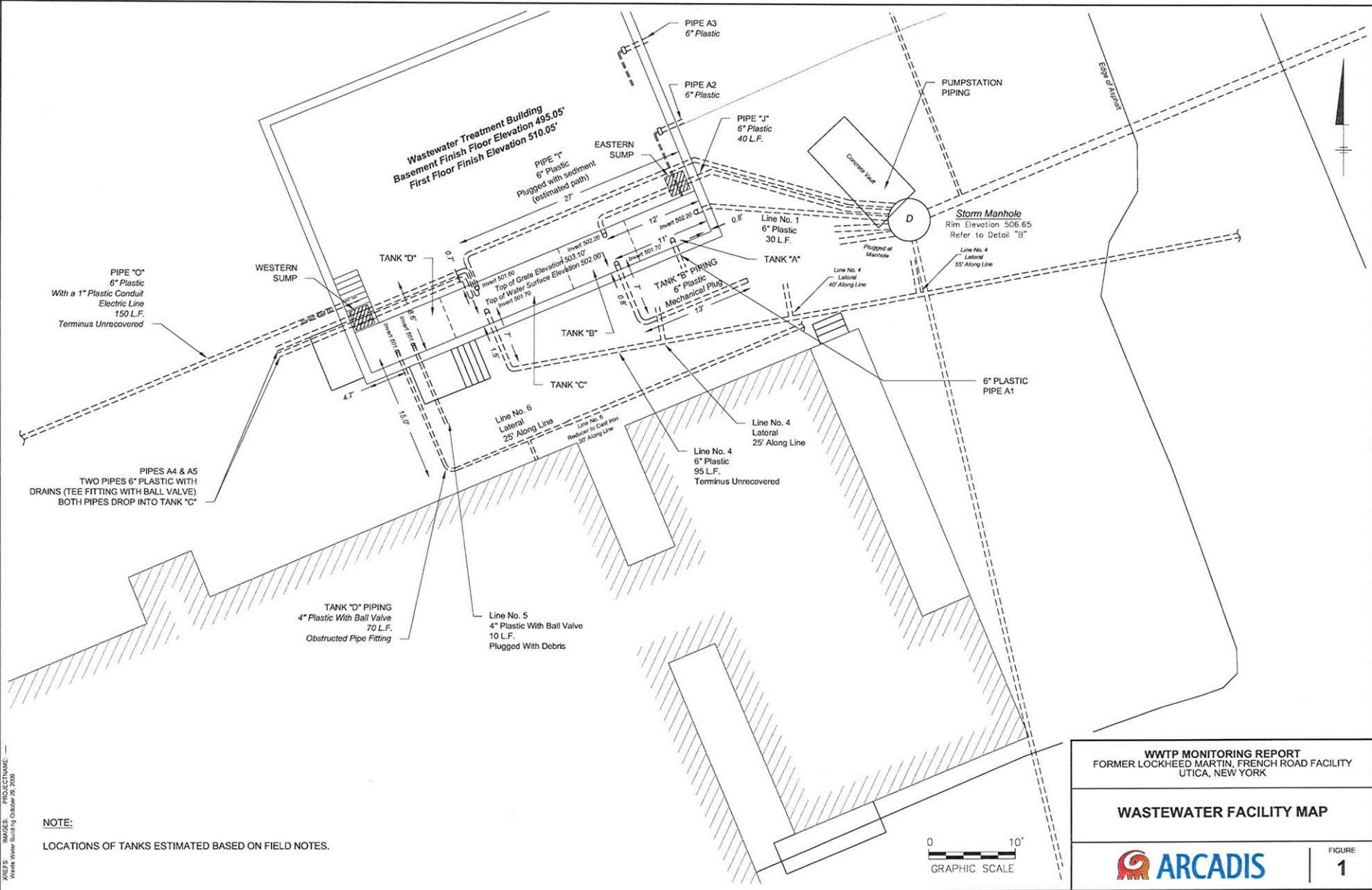
Notes:

Sump water measurements are in inches of total water depth

NM - Not measured

<sup>1</sup> - basement was flooded during initial visit; corrective actions taken during final closure activities as provided in 8/2/10 report.

CITY OF UTICA, DIVISION OF SANITATION, 208 S. 1<sup>ST</sup> ST., UTICA, NY 13502-1228  
 PROJECT: WASTEWATER FACILITY MAP, FORMER LOCKHEED MARTIN, FRENCH ROAD FACILITY, UTICA, NY  
 DRAWING NO.: WWTM-2011-001  
 DATE: 10/26/2011  
 DESIGNED BY: [REDACTED]  
 CHECKED BY: [REDACTED]  
 PROJECT NAME: WASTEWATER FACILITY MAP  
 WASTE WATER BUILDING October 26, 2010



**WWTP MONITORING REPORT**  
 FORMER LOCKHEED MARTIN, FRENCH ROAD FACILITY  
 UTICA, NEW YORK

---

**WASTEWATER FACILITY MAP**

---

**ARCADIS**

FIGURE  
**1**