



# Lawrence Livermore National Laboratory

4-1-01

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Joe Karkoski,

As you requested I have enclosed storm water chemical data collected as part of the routine monitoring performed at the Lawrence Livermore National Laboratory Site 300 which falls under your Central Valley Region jurisdiction. All the data was collected as grab samples with bottle requirements and sample preservation techniques followed in accordance with standard procedures. The data provided is for Corral Hollow Creek which is an intermittent stream flowing eastward toward the city of Tracy, Ca.

The data is provided in Macintosh Excel Workbook format that includes a description and my contact information along with the data since July, 1997. I attempted to make the format as straight forward as possible, but I am available to answer any questions if some should arise. I also included two hard copies of the spreadsheets.

I am happy to provide you with this data and please feel free to contact me with questions or if there is more information you require.

Sincerely,

Chris Campbell



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**Information:**

**Contact person :**

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**Description:**

This data has been collected at Corral Hollow Creek, an intermittent stream that flows approximately west to east of Tracy toward the town in the valley east of Livermore. This dry creek does not flow every year.

Data is collected as part our routine monitoring program for storm water runoff.

A map of the site and sample locations has been included.

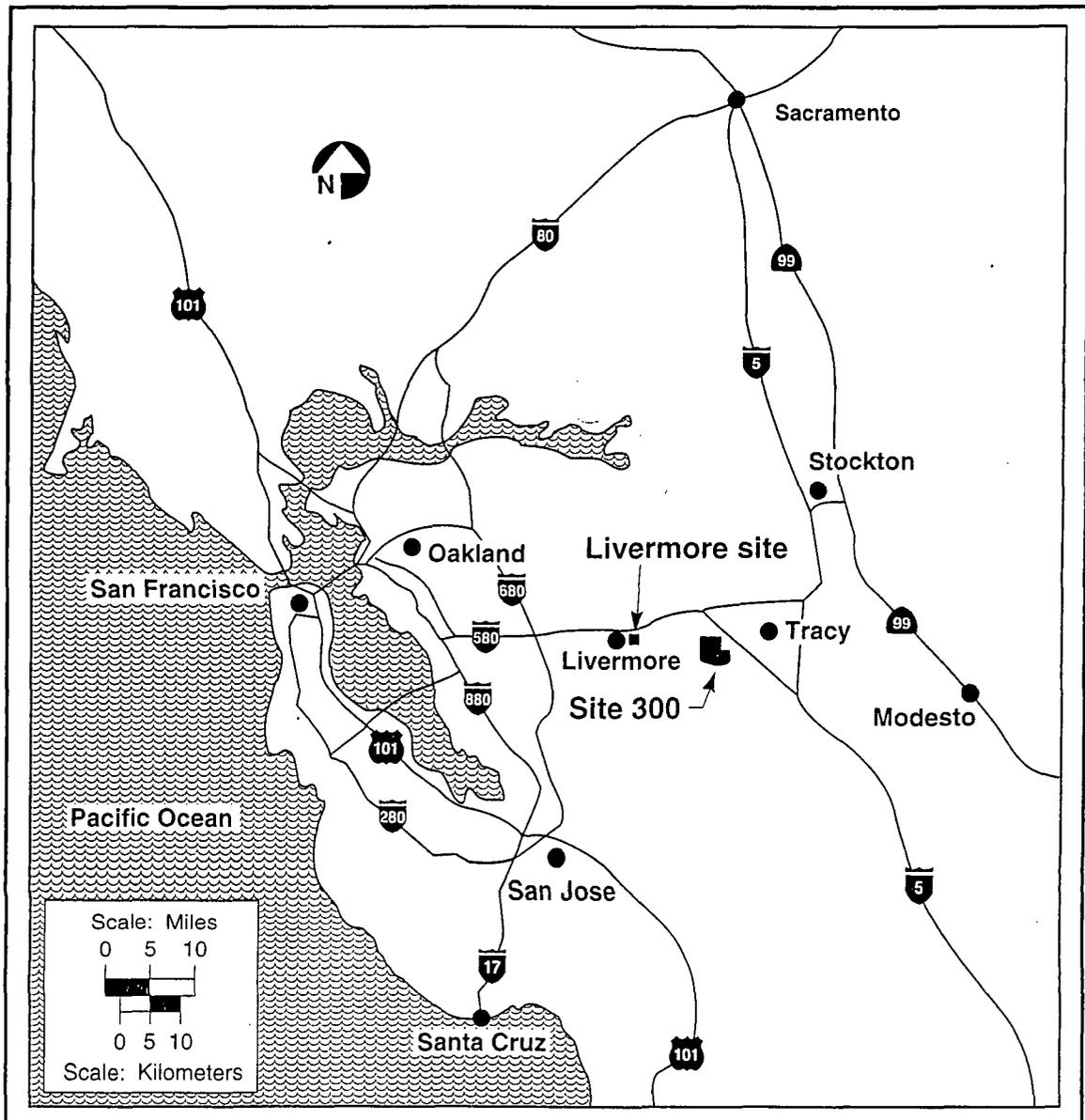
The two sampling locaiotns are on the same creek with GEOCRK downstream from CARW.  
The format used has been where the analyte is listed in a vertical column

If there is a specific type of data you need that is not included here feel free to call and ask if we have it, as it is possible we do.

Please contact me with any questions,  
Chris



# 1 Site Overview



**Figure 1-1.** Locations of LLNL Livermore site and Site 300.

LLNL was founded at the Livermore site in 1952 at a former U.S. Navy training base. At that time the location was relatively isolated, being approximately 1.6 km from the Livermore city limits. Over time, Livermore evolved from a small town of fewer than 7000 people when the Laboratory began to its present population of about 74,300. The economy, which had been primarily agricultural, diversified to include light industry and business parks. Within the last few years, low-density, single-family

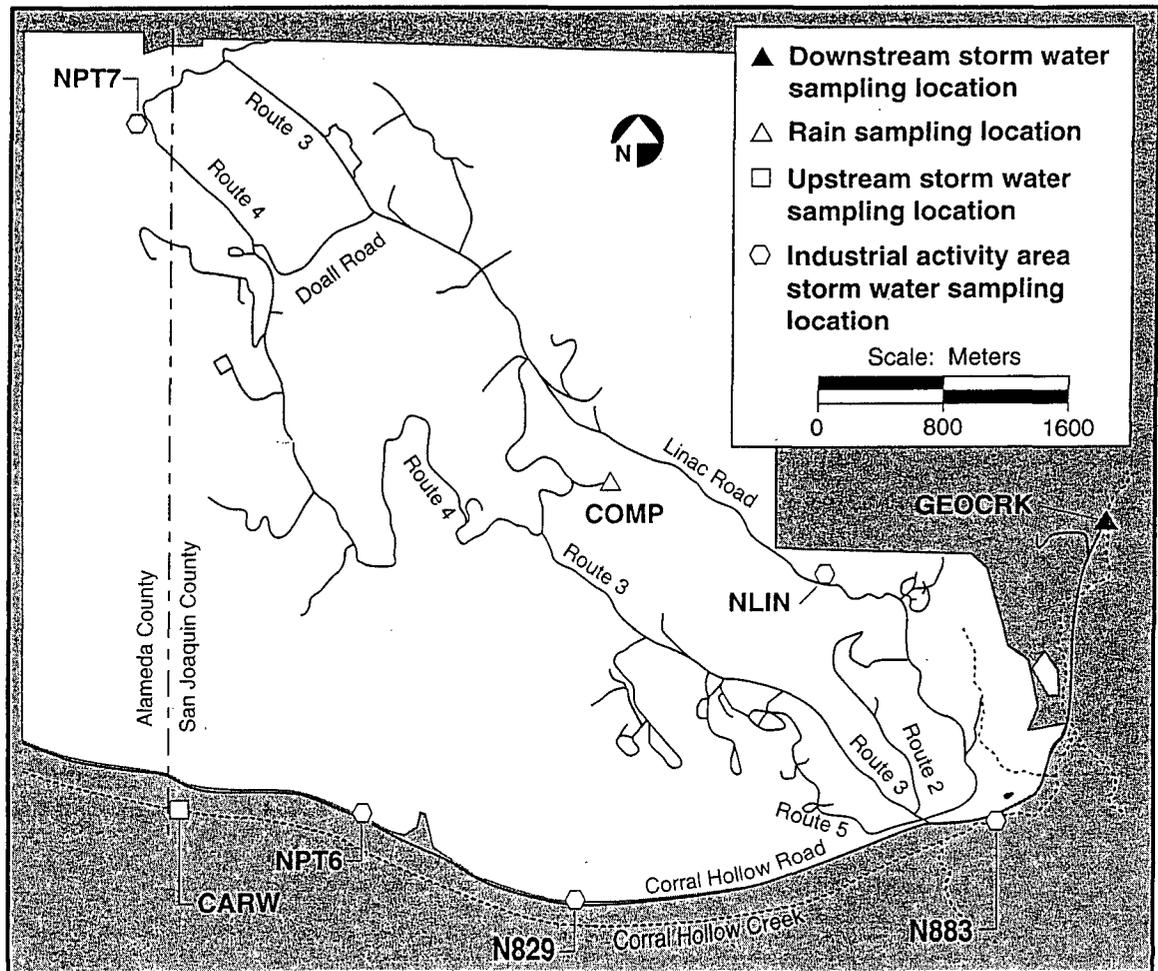


Figure 7-3. Surface water flow in the vicinity of Site 300.

## Results

### Inspections

All 12 directorate-level organizations at the Livermore site conducted the permit-required annual inspections during 1999. These inspections of more than 500 facilities indicated that all BMPs were in place, implemented, and adequate to protect storm water in all but five instances at the Livermore site. Three of the exceptions noted were the absence of BMPs for the outdoor storage of materials (paint cans, batteries, and drums). The paint cans and batteries were removed, and the drums are being evaluated to determine if secondary storage is necessary. In addition, there was one instance where dumpster covers were missing. The dumpster covers are being replaced. Finally,