



August 8, 2006

Project No.: 015-01-015

Mr. Jerry Wichham
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

**SUBJECT: Interim Remediation of Groundwater for Fuel Leak Case No. RO0000324
Livermore Gas and Mini Mart
160 Holmes Street, Livermore, California**

Dear Mr. Wickham:

In accordance with your July 10, 2006 email, Allterra proposes to conduct limited interim groundwater extraction and treatment at the subject site in order to initiate plume migration control and remove high levels of dissolved hydrocarbons. Presented below is a description of Allterra's proposed method for interim cleanup of groundwater.

Proposed Interim Cleanup Method

Groundwater Extraction

The proposed interim groundwater remediation to be implemented at the site will consist of alternating groundwater extraction from wells EW-1 and EW-2. Using a submersible pump and flexible hosing, extracted groundwater will first pass through a bag filter to remove larger sediments. The water will then be filtered through two, 200-pound (55-gallon) liquid phase carbon vessels, arranged in series, to remove dissolved petroleum hydrocarbons. Treated water will then pass through a flow totalizer to document the total volume of water treated. Finally, the water will enter a 6,800-gallon poly tank for storage pending permitted discharge to the sanitary sewer. Figure F-1 presents a process and instrumentation diagram for the interim cleanup equipment set up.

Sample Collection: Influent Flow Stream

Groundwater samples will be collected from the influent groundwater flow stream at least once per extraction "batch". Samples will be submitted under chain of custody protocol to McCampbell Analytical, Inc., of Pacheco, California, a state of California certified laboratory (ELAP #1644), and tested for total petroleum hydrocarbons as gasoline (TPHg) by EPA method 8015C, for benzene, toluene, ethylbenzene, and xylenes (BTEX), and methyl tert-butyl ether (MTBE) by EPA Method 8021B.

Sample Collection: Wastewater Discharge

Wastewater samples from the holding tank will also be sampled each extraction "batch". Samples will be submitted under chain of custody protocol to Test America, Inc. and tested for total toxic organics (TTOs) by EPA Method 624 (as required by the City of Livermore for wastewater discharge). Once the lab data is received, it will be submitted to the City of Livermore for discharge approval. Once approved, the wastewater will be discharged to the

sanitary sewer, with the flow rates and volumes being documented. The entire groundwater extraction, sample collection and testing, and discharge process will be repeated, alternating between extraction wells EW-1 and EW-2, until treatment system construction is completed.

Reporting

The data collected during interim cleanup activities will be submitted in each quarterly groundwater monitoring report. Data submitted in the reports will include a description of site activities, which well groundwater was extracted from (EW-1 or EW-2), flow rates, volumes removed, analytical results, and contaminant mass removal estimates for TPHg, benzene, and MTBE.

Allterra will begin interim cleanup of groundwater at the Site upon your approval. Should you have any questions, please contact Allterra at (831) 425-2608.

Sincerely,
Allterra Environmental, Inc.,



Erik Allen
Staff Scientist



James Allen
Project Manager

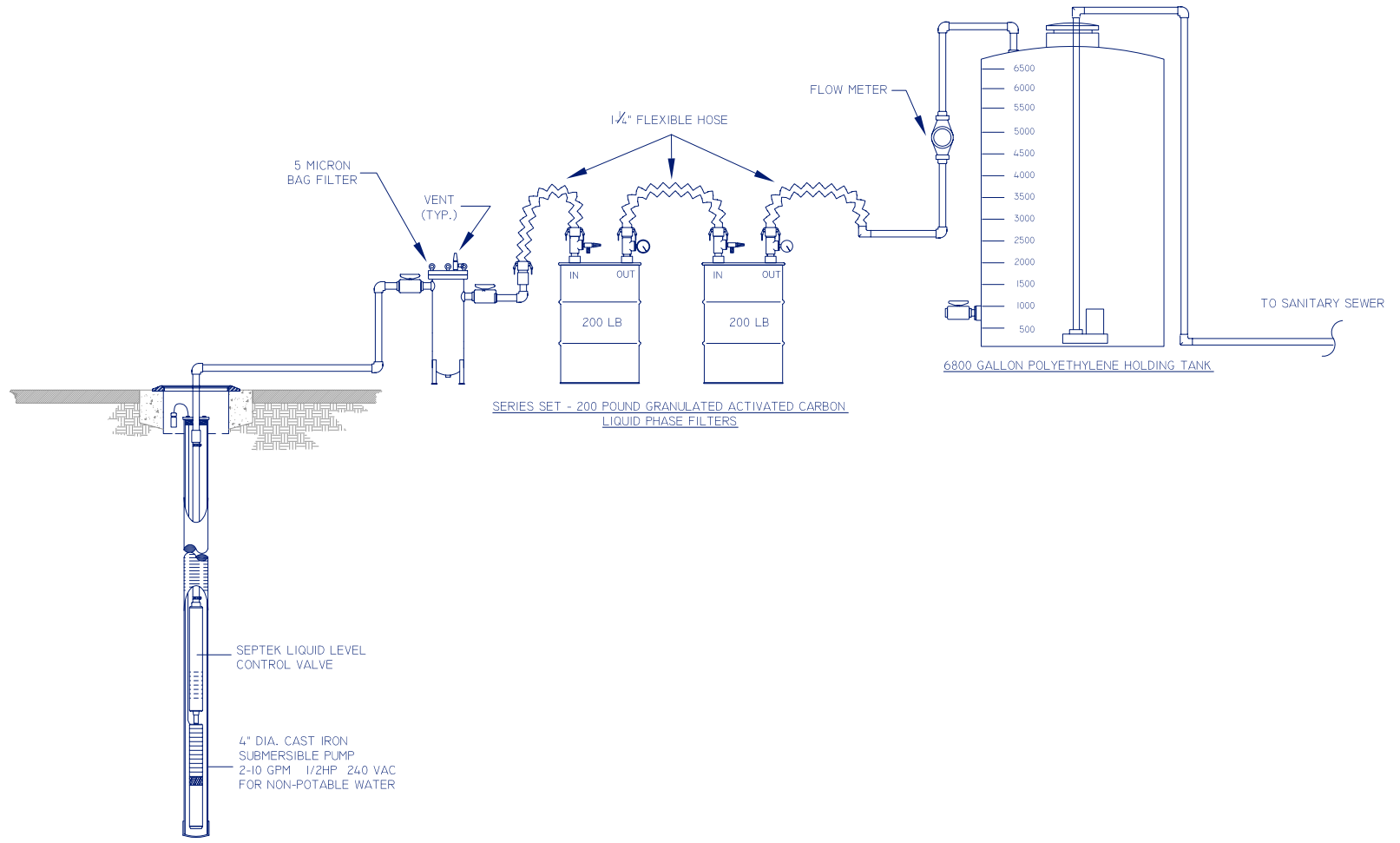
Attachments:

Figure F-1: Process and Instrumentation Diagram

FINAME

REVDATE

USER



General Notes

STAMP

160 HOLMES STREET, LIVERMORE
CALIFORNIA
PROCESS AND INSTRUMENTATION
DIAGRAM



No.	Revision/Issue	Date
0	DRAFT/REVIEW	5-29
1	FINAL REVIEW	5-29

Firm Name and Address
ALLTERRA ENVIRONMENTAL, INC.
 849 ALMAR AVE., SUITE C, No. 281
 SANTA CRUZ, CALIFORNIA
 831-425-2608 FAX 831-425-2609
 WWW.ALLTERRAENV.COM

Sheet Name and Site Address
 PROCESS AND INSTRUMENTATION
 DIAGRAM
 160 HOLMES STREET, LIVERMORE
 CALIFORNIA

Project	017-01-005	Sheet	F-1
Date	8-4-06		
Scale	SEE DRAWING		