

# GET

**Geo Environmental Technology**

August 3, 2004

Alameda County  
AUG 06 2004  
Environmental Health

Donna Drogos  
Alameda County Environmental Health Services  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502

Dear Ms. Drogos,

In accordance with State Water Resources Control Board guidelines and regulations, the monitoring wells at the subject site have been surveyed using the GPS survey method and the data has been uploaded to the State Geotracker database.

Attached is the registered surveyor report and Geotracker upload certification for your files. If you have any questions please contact me at (831) 423-8780, or at cellular number (408) 316-4507.

Sincerely,



Costas Orountiotis  
Program Manager



## Mid Coast Engineers

Civil Engineers and Land Surveyors

70 Penny Lane, Suite A - Watsonville, CA 95076

phone: (831) 724-2580

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Richard A. Wadsworth  
Civil Engineer

Stanley O. Nielsen  
Land Surveyor

Lee D. Vaage  
Land Surveyor

Jeff S. Nielsen  
Land Surveyor

August 2, 2004

Costas Orountiotis  
Geo Environmental Technology  
343 Soquel Avenue, #33  
Santa Cruz, CA 95062

Re: **Livermore Gas and Minimart, 160 Homes Street, Livermore, California; GET Project MANWEL, MCE Job No. 04128**

Dear Mr. Orountiotis,

As you requested, on July 30 we surveyed seven new monitoring wells located at the referenced site. Our findings are shown on the attached sheets, expressed in State Plane Coordinates and Latitude/Longitude.

A notch was cut in the north rim of the PVC casing (TOC) and a cross chiseled in the north rim of the standard box (TOB).

Measurements were obtained from conventional survey techniques in combination with GPS techniques (Code CGPS), using control points AA3815 (HPGN D CA 04 FK) and AA3816 (HPGN D CA 04 FL), as published by NGS/NOAA and listed on their web site. Latitude and Longitude as shown were determined from the California Coordinate System, Zone 3, NAD 83 Datum. The accuracy range of the reported information is +/- 1cm. GPS equipment is the Trimble 5700 system (Code T57).

The benchmark used for this survey is City of Livermore 2K-747, a chiseled square in the top of curb at a storm water inlet at the west end of a bus turnout on the north side of Stanley Boulevard. Elevation = 459.491 feet, NGVD '29, 2000 City BM Datum.

Please let me know if you have questions or need additional information.

Yours truly,

  
Lee D. Vaage



**LIVERMORE GAS and MINIMART**  
**160 :Homes Street**  
**Livermore, California**

**GET Project MANWEL**

Project : 04128

User name MCE Date & Time 3:08:38 PM 8/2/2004  
Coordinate System US State Plane 1983 Zone California Zone 3 0403  
Project Datum NAD 1983 (Conus)  
Vertical Datum NGVD29  
Coordinate Units US survey feet  
Distance Units US survey feet  
Elevation Units US survey feet

Name	Northing	Easting	Elevation	Description
14	2071927.54	6191544.55	465.30	EX-1toc
15	2071927.87	6191544.30	465.67	EX-1tob
12	2071923.40	6191542.30	465.03	MW-1toc
13	2071923.72	6191542.14	465.68	MW-1tob
10	2071880.10	6191521.36	464.94	MW-2toc
11	2071880.31	6191521.14	465.23	MW-2tob
8	2071838.68	6191576.34	465.84	MW-3toc
9	2071838.98	6191576.47	466.23	MW-3tob
3	2071911.88	6191413.45	465.15	MW-4toc
4	2071912.10	6191413.34	465.68	MW-4tob
16	2072111.81	6191428.43	464.65	MW-5toc
17	2072112.07	6191428.64	465.38	MW-5tob
18	2072066.63	6191291.69	464.13	MW-6toc
19	2072066.91	6191291.65	464.53	MW-6tob
21	2072324.79	6190765.17	459.491	BM2k-747

**LIVERMORE GAS and MINIMART**  
**160 :Homes Street**  
**Livermore, California**

**GET Project MANWEL**

Project : 04128

User name MCE Date & Time 3:08:38 PM 8/2/2004  
 Coordinate System US State Plane 1983 Zone California Zone 3 0403  
 Project Datum NAD 1983 (Conus)  
 Vertical Datum NGVD29  
 Coordinate Units US survey feet  
 Distance Units US survey feet  
 Elevation Units US survey feet

Name	Latitude	Longitude	Elevation	Description
14	37.678167287°N	121.778977097°W	465.30	EX-1toc
15	37.678168157°N	121.778977991°W	465.67	EX-1tob
12	37.678155807°N	121.778984688°W	465.03	MW-1toc
13	37.678156694°N	121.778985245°W	465.68	MW-1tob
10	37.678036131°N	121.779054993°W	464.94	MW-2toc
11	37.678036687°N	121.779055743°W	465.23	MW-2tob
8	37.677924433°N	121.778863053°W	465.84	MW-3toc
9	37.677925261°N	121.778862627°W	466.23	MW-3tob
3	37.678119344°N	121.779429332°W	465.15	MW-4toc
4	37.678119936°N	121.779429733°W	465.68	MW-4tob
16	37.678668951°N	121.779387006°W	464.65	MW-5toc
17	37.678669664°N	121.779386309°W	465.38	MW-5tob
18	37.678539724°N	121.779857339°W	464.13	MW-6toc
19	37.678540501°N	121.779857492°W	464.53	MW-6tob
21	37.679228901°N	121.781688769°W	459.491	BM12k-747

	A	B	C	D	E	F	G	H	I	J	K	L
1	<b>LIVERMORE GAS and MINIMART</b>											
2	<b>160 :Homes Street</b>											
3	<b>Livermore, California</b>											
4												
5	<b>GET Project MANWEL</b>											
6												
7	<b>Project : 04128</b>											
8	<b>User name MCE Date &amp; Time 3:08:38 PM 8/2/2004</b>											
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10	<b>Project Datum NAD 1983 (Conus)</b>											
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12	<b>Coordinate Units US survey feet</b>											
13	<b>Distance Units US survey feet</b>											
14	<b>Elevation Units US survey feet</b>											
15												
16		EX-1	MW	07/30/2004	37.6781673	-121.7789771	CGPS	NAD83	1	Mid Coast Engineers	T57	top of casing
17												
18		MW-1	MW	07/30/2004	37.6781558	-121.7789847	CGPS	NAD83	1	Mid Coast Engineers	T57	top of casing
19		MW-2	MW	07/30/2004	37.6780361	-121.7790550	CGPS	NAD83	1	Mid Coast Engineers	T57	top of casing
20		MW-3	MW	07/30/2004	37.6779244	-121.7788631	CGPS	NAD83	1	Mid Coast Engineers	T57	top of casing
21		MW-4	MW	07/30/2004	37.6781183	-121.7794293	CGPS	NAD83	1	Mid Coast Engineers	T57	top of casing
22		MW-5	MW	07/30/2004	37.6786690	-121.7793870	CGPS	NAD83	1	Mid Coast Engineers	T57	top of casing
23		MW-6	MW	07/30/2004	37.6785397	-121.7798573	CGPS	NAD83	1	Mid Coast Engineers	T57	top of casing

	A	B	C	D	E	F	G	H	I	J	K
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13	<b>Distance Units US survey feet</b>										
14	<b>Elevation Units US survey feet</b>										
15											
16		EX-1	07/30/2004	465.30	CGPS	29	0.5		Mid Coast Engineers		top of casing
17											
18		MW-1	07/30/2004	465.03	CGPS	29	0.5		Mid Coast Engineers		top of casing
19		MW-2	07/30/2004	464.94	CGPS	29	0.5		Mid Coast Engineers		top of casing
20		MW-3	07/30/2004	465.84	CGPS	29	0.5		Mid Coast Engineers		top of casing
21		MW-4	07/30/2004	465.15	CGPS	29	0.5		Mid Coast Engineers		top of casing
22		MW-5	07/30/2004	464.65	CGPS	29	0.5		Mid Coast Engineers		top of casing
23		MW-6	07/30/2004	464.13	CGPS	29	0.5		Mid Coast Engineers		top of casing

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### UPLOADING A GEO\_XY FILE

**Processing is complete. No errors were found!**

**Your file has been successfully submitted!**

<b><u>Submittal Title:</u></b>	<b>Manwel Well Survey Data</b>
<b><u>Submittal Date/Time:</u></b>	<b>8/3/2004 12:28:41 PM</b>
<b><u>Confirmation Number:</u></b>	<b>9800781071</b>

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