A·C·C ENVIRONMENTAL CONSULTANTS
An Employee Owned Company

November 20, 2014

Karel Detterman, PG
Hazardous Materials Specialist
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502

**SITE: Roy Anderson Paints**
**3080 Broadway**
**Oakland, California 94611**
**LOP Case# RO140**
**Geotracker Global ID: T0600101621**

**RE: Groundwater Monitoring Well Sampling Protocols**

Dear Ms. Detterman,

On behalf of Mr. Jerry Shirar, ACC Environmental Consultants, Inc. would like to present to you the proposed groundwater monitoring well sampling protocols for the groundwater monitoring well located at 3080 Broadway in Oakland, California. The sampling event will be scheduled upon LOP approval of the sampling protocols. If you have any questions or comments please contact (510) 638-8400 x110 or isutherland@accenv.com.

Sincerely,
ACC ENVIRONMENTAL CONSULTANTS, INC.

Ian Sutherland, PG
Project Geologist

**Groundwater Monitoring Well Sampling Protocols**
**Roy Anderson Paints**
**3080 Broadway, Oakland, California**

- Notify LOP of scheduled sampling date;
- Record all field data on a field form;
- Inspect well box for the presence of significant odors, water or other liquids;
- Inspect general conditions of the well box, lid, bolts, lock and visable well casing;
- Note any signs of damage or impact to the well;
- Measure the depth-to-groundwater to the nearest hundredth of a foot using an electric interface probe capable of distinguishing between groundwater and floating free product (all measurements conducted in reference to a fixed point on the top of the PVC well casing);
- Measure thickness of floating free product, if present. No floating free product is expected based on the previous well sampling event at the Site (9.12.11). If measurable floating free product is encountered the well will not be sampled and agency will be notified;
- Measure depth-to-well bottom to the nearest one hundredth of a foot;
- Collect second depth-to-groundwater measurement to assess whether groundwater level in well is static;
- Purge, via a dedicated disposable plastic bailer, a minimum of three well volumes based on calculations using depth-to-groundwater, the depth to well bottom and the diameter of the well (two inch-diameter);
- Monitor and record groundwater data including temperature, pH and conductivity to assess the stabilization of groundwater chemical parameters (within 0.1 standard units for pH and within 10% of the previous reading for conductivity and temperature). If groundwater chemical parameters do not stabilize, purging will cease at five well volumes;
- Store purge water on-site in a labeled, 55-gallon steel drum pending profiling and disposal;
- Record depth-to-groundwater subsequent to purging;
- Collected groundwater sample using a dedicated disposable plastic bailer subsequent to confirming that the well has recharged to 80% of the pre-purging volume. The monitoring well is not expected to dry up based on the previous well sampling event at the Site (9.12.11);
- Filter groundwater sample in the field using a dedicated disposable 0.45 micron filter;
- Place sample into laboratory supplied, labeled 250-milliliter plastic bottle pre-preserved with nitric acid subsequent to the filtering procedure;
- Store sample on ice to be transported to a State-certified laboratory under chain-of-custody protocol;
- Request analysis for dissolved LUFT 5 Metals (cadmium, chromium, nickel, lead and zinc).