INTEROFFICE MEMORANDUM

TO: SUSAN HUGO

FROM: DAN NOURSE

SUBJECT: SOIL WORK PLAN FOR EMERYSTATION II

DATE: 03/08/00

CC: RICH ROBBINS, MANSOUR SEPEHR

In response to your letter of December 23, 1999 and February 16, 2000, the following were the procedures used during the installation of the concrete piles on the EmeryStation II site during the month of November and December 1999.

Production Pile Installation

- Pile locations were predrilled to depths between 8 and 15 feet below the ground surface to facilitate driving.
- Drilled soil was left at the pile location, no soil was removed from the site.
- The piles used were 14 inch pre-stressed concrete piles driven with a diesel hammer at 90,000 foot-pounds per blow.
- The piles installed are friction piles that generate their strength from the friction formed by the soil against the surface of the pile. Thus they can not provide a vertical conduit for moisture, or they would fail as a bearing foundation.

Grade Beam and Pile Cap Excavation

The production piles will be capped with steel reinforced concrete blocks (pile caps). The pile caps will be connected with steel reinforced concrete beams (grade beams). In order to ready the site for the installation of the reinforcing steel and the concrete, the specific locations for these installations must be excavated. Separate procedures for the excavation of the site will be established for column lines 1 through 11 and 12 through 18. In the area from column lines 1 through 11, residual PCB's may be encountered at depths below 3 feet. In one location it is expected that PCB's in excess of 50 PPM will be encountered (location 1-J). The following procedures will be in place for this excavation and the disposal of the excavated soil.

Excavation column lines 1 - 11

1. All work on the site will be governed by the health and safety plan established for this site in April 1998, and modified for the in February 2000 (attached)
2. Three deep soil samples will be excavated and stockpiled on site. Soil will be excavated from locations 4-A, 1-J, and 4-M.

3. Composite samples will be taken from each pile and profiled to the requirements of Altmont land fill.

4. Upon profile confirmation, general excavation will commence.

5. Soil will be excavated and loaded into trucks. Each truck will have a sample taken and tested with a field PCB kit.

6. Provided the test shows PCB level's no greater than 50 ppm, the soil will then be hauled to Altmont and disposed.

7. At the base of each pile cap location, a confirming field test will be made to determine the PCB levels remaining in each cap location.

8. Soil from 1-J and any soil in excess of 40 ppm PCB's will be stock piled on site, have a composite sample taken and analyzed for PCB levels at a certified laboratory.

9. Upon confirmation that the soil is in excess of 50 ppm PCB, this soil will be hauled to a TSCA facility for disposal. Proper manifests will be completed and retained.

10. We expect to off haul approximately 750 cubic yards of material from this work.

11. Any encountered ground water in the base of the pile caps will be pumped into Baker tanks for testing and proper disposal.

Excavation Column Lines 12 – 18

All testing to date on this portion of the site has shown no actionable levels of any contaminates. Thus excavated soil from this portion of the site will be tested to the requirements dictated by the receiving land fill. This soil will then be handled as ordinary construction spoils.

I believe this to be a plan which is conservative in its handling of the impacted soil, cost effective for its impact on the project, and beneficial to both the ecological and economic environment of Emeryville.

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