Environmental
Resources
Management

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15 February 2006

Girish Desai, P.E.
New York State Department of Environmental Conservation
Division of Environmental Remediation
Building 40 - SUNY
Stony Brook, New York 11790-2356

Re: Powers Chemco Site I.D.# 1-30-028
Work Plan for Additional Pre-Design Investigation Activities
Glen Cove, New York

Dear Mr. Desai:

On behalf of Konica Minolta Graphic Imaging USA, Inc., (KMGI), Environmental Resources Management (ERM) is providing this work plan for additional pre-design investigation activities for the above site.

Background

As part of the pre-design investigation, groundwater samples were collected from all air injection wells (AIWs) and vapor recovery wells (VRWs) in September 2005. The purpose of this sampling event was to identify any additional locations of elevated volatile organic compounds (VOCs) in groundwater. Four wells (AIW-701, AIW-702, VRW-202, and VRW-203) at the northern property boundary contained groundwater with VOC concentrations in excess of 10,000 micrograms per liter (ug/l).

A meeting to discuss these findings was conducted on 18 January 2006 with ERM, NYSDEC, and KMGI present. During that meeting, it was agreed that additional investigation activities in the northern area of the site are needed to: 1) further define the extent of impacted groundwater, and 2) confirm the groundwater flow direction. A preliminary approach to address these items was presented to NYSDEC during this meeting, and approved in the Department's 2 February 2006 electronic mail to ERM. A formal scope of work is presented in the following sections.

Scope of Work

ERM will collect groundwater samples and soil samples from twelve (12) locations (as shown in purple in the attached figure). These locations will consist of six (6) temporary soil/groundwater sample points, and six (6)

piezometers for use in water level measurement. Both sets of points will be installed using a direct-push drill rig.

Prior to any intrusive work, a private utility locating firm will utilize geophysical methods to identify any utility lines within a ten-foot radius of the proposed drilling locations. Also, as required by law, a public utility mark-out will also be conducted.

Temporary sampling points

At the temporary sampling points (TMP-01 to TMP-06), continuous soil samples will be collected from the ground surface to a depth of approximately four feet below the water table (estimated at 8 feet below ground surface). Soil cores will be collected in four-foot intervals and ERM will screen the soil cores visually and with a photoionization detector (PID) in one-foot intervals. If there are obvious impacts to unsaturated zone soil, ERM will collect one unsaturated soil sample for laboratory analysis from each temporary sampling point.

Following the collection of soil samples, a groundwater sample will be collected for laboratory analysis, using a temporary well screen from the upper four feet of the saturated zone. When sampling is complete at each location, the borings will be properly abandoned. In general, the bore hole will be sealed with non-shrinking grout and the top of the bore hole will be finished to match the surrounding grade.

Piezometers

The same procedures will be used when installing the piezometers (PZ-01 to PZ-06). After collection of the soil and groundwater samples, a one-inch PVC piezometer will be installed. The piezometers will consist of eight-foot PVC screens. The top of the screen will be placed two feet above the water table to account for water table fluctuations. The horizontal and vertical locations of the piezometers will be surveyed. Then, water levels from the piezometers, and other site wells, will be collected and used to prepare a map showing groundwater elevations beneath the site.

Laboratory analysis

During the sampling activities, duplicate, trip and field blank rinse samples will also be collected. All soil and groundwater samples will be analyzed

for TCL VOCs by Accutest Laboratories in Dayton, New Jersey (a NYSDOH ELAP-certified laboratory).

Health & Safety

All site activities will be performed in accordance with ERM's Health & Safety Guidance Manual, and the attached task-specific Project Health & Safety Plan.

Reporting

All analytical data will undergo a full validation by ERM's quality assurance officer, and will be provided with a letter report summarizing the results of this investigation. The letter report will include: 1) a summary table of all sampling results, 2) a surveyed site map showing the location of all sampling points, and detections of VOCs, 3) soil boring logs, and 4) water level contour maps showing groundwater flow direction.

Please review this document, and if you have any questions, please do not hesitate to contact us at (631) 756-8900. Once we receive your approval, we will proceed with the investigation activities.

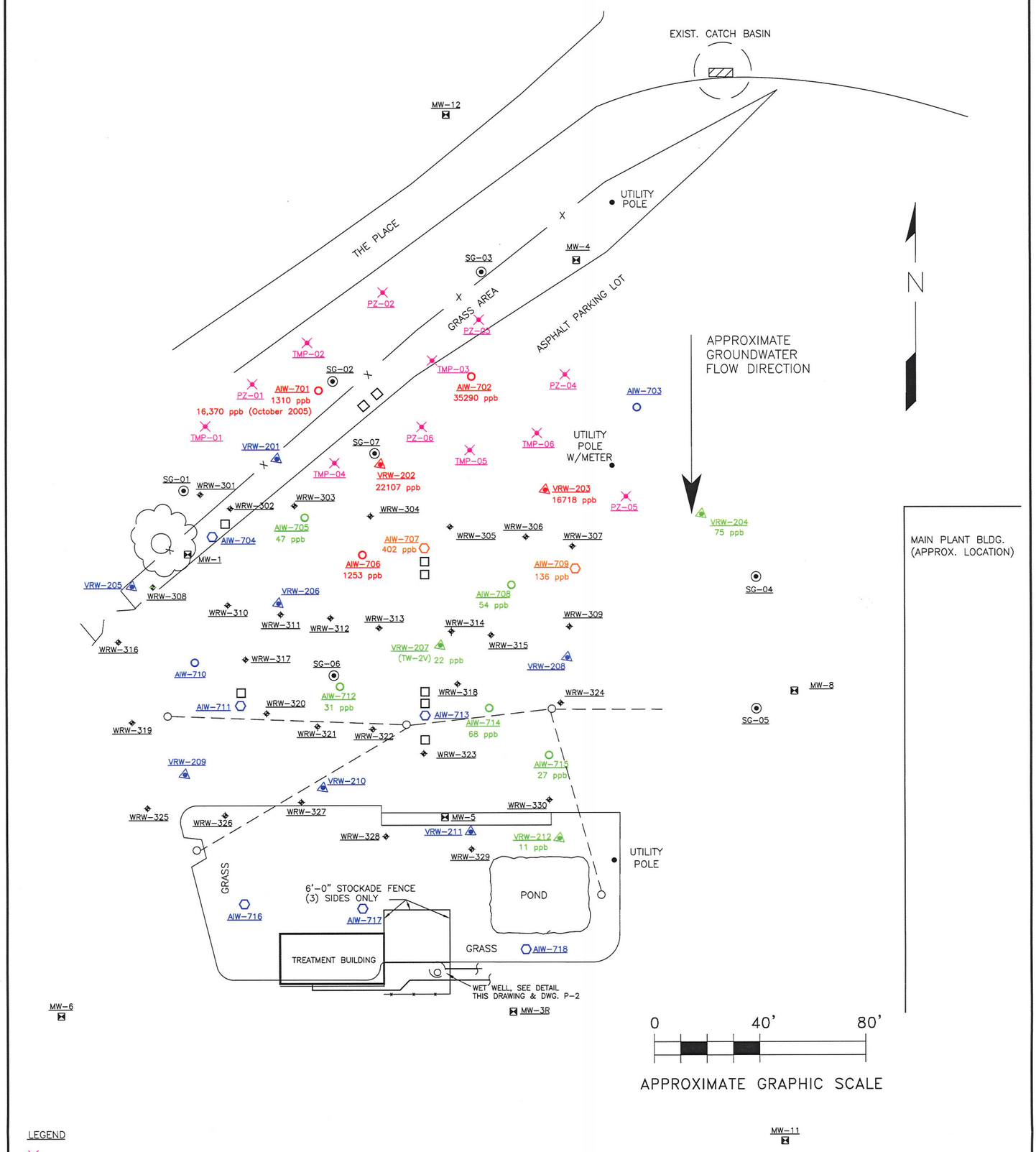
Very truly yours,

John Mohlin, P.E.
Project Manager

James Rocco
Principal

Attachments

cc: D. Romeo, P.E. (KMGI)
I. Blundell (KMGI)
W. Parish (NYSDEC)
M. Menetti (NYSDOH)



LEGEND

- PZ-02 — PROPOSED PIEZOMETER & GROUNDWATER SAMPLE LOCATION
- TMP-04 — PROPOSED TEMPORARY GROUNDWATER & SOIL SAMPLE LOCATION
- SOIL GAS SAMPLING POINT
- VAPOR RECOVERY WELL
- ABOVEGROUND VENT FOR PASSIVE AIR INJECTION WELL
- COMBINATION PASSIVE AIR INJECTION WELL & AG VENT
- PASSIVE AIR INJECTION WELL
- MONITORING WELL
- UTILITY POLE
- 31 ppb — TOTAL VOC CONCENTRATION IN PARTS PER BILLION
- WATER RECOVERY WELL

NOTES:

WELLS AIW 701 THROUGH AIW 718, AND VRW 201 THROUGH 212 SAMPLED IN SEPTEMBER 2005.

WELLS INDICATED IN BLUE DO NOT CONTAIN VOCS ABOVE THE GWQS.

WELLS INDICATED IN GREEN CONTAIN ONE OR MORE VOCS ABOVE THE GWQS. TOTAL VOC CONCENTRATION IS LESS THAN 100 PPB.

WELLS INDICATED IN ORANGE CONTAIN ONE OR MORE VOCS ABOVE THE GWQS. TOTAL VOC CONCENTRATION IS BETWEEN 100 PPB AND 1000 PPB.

WELLS INDICATED IN RED CONTAIN ONE OR MORE VOCS ABOVE THE GWQS. TOTAL VOC CONCENTRATION IS >1000 PPB.

GWQS NEW YORK STATE CLASS GA GROUNDWATER QUALITY STANDARDS

TITLE

SUMMARY OF PRE-DESIGN GROUNDWATER SAMPLING (SEPTEMBER 2005) WITH PROPOSED ADDITIONAL SAMPLING LOCATIONS

PREPARED FOR

FORMER COLUMBIA RIBBON AND CARBON COMPANY DISPOSAL SITE

ERM Environmental Resources Management

SCALE	FIGURE
1" = 40'	1-1

DRAWN:	JOB NO.:	FILE NAME:	DATE
JPM/EMF	0006435	0006435-017	1/17/05