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By Alameda County Environmental Health 10:18 am, Sep 11, 2015

Proposed Scope of Work/Preliminary Work Plan:

The following proposed scope of work/preliminary work plan is being submitted to provide an initial plan to address the data gaps, identified by ACEH, related to previous investigations at the Bay Area Concrete Recycling site. The following document includes a brief overview of our understanding of the current Areas of Concern (AOC) at the facility and a description of the proposed scope of work/preliminary work plan to address these AOCs.

Sage will research and review previous site investigation reports from available ACEH files before proceeding with final work plan preparation, in accordance with ACEH request letter, dated July 9, 2015. Available historical data for the site will be reviewed, gaps analyzed, and a Site Conceptual Model (SCM) completed, as requested by ACEH. Sage will then prepare and submit the final work plan to ACEH, including the data gap analysis, focused SCM, figures showing the boring locations, groundwater gradient, and anticipated potential monitoring well locations. The work plan will address each of the ACEH comments from their July 9, 2015 letter to Bay Area Concrete Recycling.

The following outlines the proposed scope of work/preliminary work plan approach for this subsurface investigation:

Areas Of Concern, (MW-1 and MW-2), (Z1-Z9), and (P2, P3, P7, and P8)

Sage proposes to perform three (3) Soil Borings surrounding each area where previous soil borings were performed in order to determine the horizontal and vertical extent of impacted soil. Borings will be advanced to a maximum depth of 10 feet below ground surface (bgs), with continuous soil sampling to the total depth encountered. Due to anticipated shallow groundwater (estimated at 5 to 9 ft. bgs), a groundwater sample will be collected at the total depth of each boring.

Due to historical evidence of soil contamination in the borings near MW-1 and groundwater contamination in MW-1, offsite access will probably be required to delineate the southeast portion of the facility. Monitoring Well MW-3 was destroyed during construction on the neighboring site to the east. Since analytical results exhibited low levels of contamination in groundwater replacement of this well is not anticipated.

Soil and groundwater samples collected will be field screened with a Photo-Ionization Device (PID) prior to submission to the lab for analysis. The uppermost soil sample will be analyzed for VOCs (including MTBE), SVOCs (including PAH), TPH, and Metals. The deeper soil samples will be placed on hold pending the results of the 0-1' sample. In the event of detections, the

lower samples will also be analyzed to delineate the vertical extent of soil impact. Select groundwater samples (one from each area investigated with soil borings) will also be analyzed for the above parameters.

Sage will review the soil sample analyses and compare the results to the “Low-Threat Underground Storage Tank Case Closure Policy” dated August 2012. This review will determine if additional borings will be required to complete the vertical and horizontal soil contamination delineation, or if site closure of the soil pathway is appropriate.

After the soil borings are completed and the soil and groundwater data is reviewed, Sage anticipates installing up to three (3) onsite and one (1) offsite Monitoring Wells (west of the site) to a depth of approximately 25 feet. The locations of these wells will be based on the contamination identified in the soil borings described above. After the wells are installed, surveyed and gauged, an accurate groundwater gradient can be determined. The groundwater gradient and direction of flow will determine if ecological parameters should be investigated, due to the site proximity to the San Francisco Bay. If it is determined that ecological parameter analysis is not required then closure determination, depending on the groundwater analytical results, will be pursued.

Monitoring wells will be properly developed, purged, and samples will be collected from each well for analysis. All groundwater samples will be analyzed for VOCs (including MTBE), SVOCs (including PAH), TPH, and Total Metals. After comparing the groundwater analytical results to the “Low-Threat Underground Storage Tank Case Closure Policy”, dated August 2012, Sage and ACEH will determine if horizontal delineation of groundwater contamination is complete. At this time, if all closure parameters have been met, a Site Closure Request will be submitted.

Professional Certification

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations.

Michele Kinaan

Michele Kinaan, PG, QSD
Professional Geologist No. 6265



Date: 9/10/15



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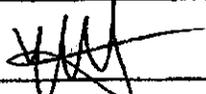
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when, where, what

To: County of Alameda
Dept: Environmental Health Services
Attn: Mark Ditterman

"I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge.

Date 9/19/2014

Signature 

Printed Name Kevin Singh

Thank you,
Kimberly Douglas
Bay Area Concrete LLC
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