

April 29, 2009

Martha Hynson, Chief
Landfill Operations Division
Solid Waste Program
Maryland Department of the Environment
1800 Washington Blvd., Suite 605
Baltimore, MD 21230-1719

Re: Gude Landfill – Remediation Approach

Dear Ms. Hynson:

In accordance with your letter dated January 28, 2009 to Mr. David Lake and our February 26, 2009 meeting, the Montgomery County Department of Environmental Protection (DEP), Division of Solid Waste Services (DSWS) is providing our formal approach to remediation at the Gude Landfill for review and approval. This remediation approach complies with the 90 day submission deadline (i.e. April 30, 2009) from receipt of the January 28, 2009 letter. The initial phase of the remediation approach will include Field Survey, Waste Delineation, and a Nature and Extent Study to assess any potential adverse environmental effects from the low level groundwater contamination at the site and other potential environmental releases to surface water and the atmosphere. The Gude Landfill is located at 600 E. Gude Drive in Rockville, Maryland.

Provided below is our remediation approach, which is divided into several subheadings: Project Sequence and Schedule, Technical Support, Project Funding, and Coordination with the Maryland Department of the Environment (MDE), Community and Other Jurisdictional and Public Agencies. We have also provided a subheading to reference recent regulatory compliance submissions and post-closure care maintenance activities.

Project Sequence and Schedule

The principal phases of the Gude Landfill remediation approach are outlined below, including a preliminary schedule for implementation and completion:

Phases of Work for Remediation	Preliminary Schedule	Duration
0. Survey and Limit of Waste Delineation	May 2009 – July 2009	3 Months
I. Nature and Extent Study	June 2009 – November 2009	6 Months
II. Remediation Alternatives Investigation and Preparation of Formal Remediation Plan ⁽¹⁾	December 2009 – May 2010	6 Months
III. Prepare Design, Permitting, and Construction Bid Documents for Selected Remediation Alternative(s). This work may be phased ⁽¹⁾	June 2010 – August 2011	15 Months
IV. Construction of Stage I Remediation Work ⁽²⁾	September 2011 – August 2012	12 Months
V. Construction of Stage II Remediation Work ⁽²⁾	September 2012 – August 2013	12 Months
VI. Construction of additional Stages of Remediation Work and Site Reuse Options ⁽²⁾	Schedules to be determined	---

- 1) Schedule may be affected by budget review and approval process, permitting reviews and approvals, public coordination efforts, and other unforeseen public obligations. Actual durations may be shorter or longer depending on such factors.
- 2) While the specific remediation work and site reuse options are not defined yet, this schedule recognizes a phased implementation with respect to professional services, funding and construction that will be updated after review of the remediation work with MDE.

Document review and comment time for MDE, Community, and other applicable Jurisdictional and Public Agencies is incorporated into the remediation approach schedule. A formal remediation plan for implementation will be developed and submitted to the MDE following the Nature and Extent Study (Phase I) and the Remediation Alternatives Investigation (Phase II).

Technical Support

DEP/DSWS has an Intergovernmental Agreement (IGA) in place with the Northeast Maryland Waste Disposal Authority (Authority) to provide “technical, engineering, operations, procurement and marketing assistance to the County with respect to the County’s Solid Waste Management System and in furtherance of the County’s solid waste activities.” The Authority has several pre-qualified firms under contract with expertise in hydrogeology, surveying, landfill design, permitting, construction, closure and remediation. DEP/DSWS and the Authority are in the process of securing a specific proposal and cost from EA Engineering, Science, and Technology (EA Engineering) to take the principal role in the Nature and Extent Study and the identification of remediation alternatives. The County has divided the initial assessment into two initial work phases that will overlap: Aerial Survey, Field Survey, and Limits of Waste Delineation; and the full Nature and Extent Study. Copies of the Scope of Work for each work segment are enclosed as Attachments 1 and 2 to this letter.

DEP/DSWS also has SCS Engineers under contract for landfill gas monitoring and collection system maintenance services, including operation and maintenance of the existing enclosed Flare Station. SCS Engineers is also currently in the construction phase for the Landfill Gas-to-Energy Facility at the Gude Landfill, which previously received a permit-to-construct by the MDE Air and Radiation Management Administration (ARMA) on September 5, 2008. In addition, as noted in the Landfill Gas Monitoring Plan (LFGMP), upon official approval of the

plan by MDE (received April 22, 2009), SCS Engineers will be authorized to initiate design and installation of 24 new landfill gas monitoring wells along the landfill perimeter property boundary. The existing contractual arrangements with the Authority and SCS Engineers will allow DEP/DSWS to initiate the respective activities of the Nature and Extent Study and the landfill gas monitoring well work without delay.

Project Funding

With respect to financial commitments, DEP/DSWS has already reallocated \$1.3 million dollars of FY09 funds to cover costs associated with the Survey and Waste Delineation, Nature and Extent Study, and the Remediation Alternatives Investigation. Approximately \$200,000 of FY09 funds have also been allocated for use under an existing contract with SCS Engineers for the installation of the 24 new landfill gas monitoring wells along sections of the landfill perimeter property boundary not already served by existing landfill gas monitoring wells. DEP/DSWS will be working with the staff of the County Executive and County Council to develop a Capital Improvement Program (CIP) Project Description Form (PDF) to plan the resources required for the remediation of the Gude Landfill. This will happen later in FY10, after the Nature and Extent Study has been completed and a remediation alternative selected, so we can better estimate the cost and duration of the project. The PDF will include a funding schedule that presents capital and maintenance costs over the subsequent six (6) years.

Coordination with MDE, Community and Other Jurisdictional and Public Agencies

DEP/DSWS is currently working closely with MDE on site inspections, repairs, and the development and approval of formal plans for Landfill Gas Monitoring (approved April 22, 2009) and Groundwater and Surface Water Monitoring (currently under review by MDE). DEP/DSWS will continue to work closely with MDE to create a baseline schedule to outline submission requirements for other potential plans, documentation, and timelines for work related to the remediation approach.

DEP/DSWS is maintaining regular communications with the Gude Landfill Concerned Citizens (GLCC) group and is incorporating funds for public presentations and meetings in upcoming contract work for the Nature and Extent Study. DEP/DSWS will also coordinate the development of the formal remediation plan, to be provided in greater detail after the Nature and Extent Study is completed, with the Maryland-National Capital Park and Planning Commission (M-NCPPC). This will be incorporated into the Mandatory Referral process, including the consideration of potential future site uses with the remediation plans. The County Executive and County Council will also play an integral role in proposing future uses for the site and seeking public input through public hearings on the CIP project and other forums.

Regulatory Compliance Submissions and Post-Closure Care Maintenance Activities

A summary description of recent MDE regulatory compliance submissions and site maintenance activities for the Gude Landfill are provided in Attachment 3. DSWS will continue to perform best management practices for post-closure care at the Gude Landfill during the

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remediation project for: stormwater management, landfill gas management, erosion and sedimentation control, leachate seep correction, and good house-keeping.

Please contact me at 240-777-6569, or at peter.karasik@montgomerycountymd.gov if you have questions or comments concerning this letter.

Sincerely,

Peter R. Karasik, P.E.
Section Chief, DEP/DSWS Central Operations

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Enclosures

cc: Karen Kumm Morris, Maryland-National Capital Park and Planning Commission
Keith Ligon, Gude Landfill Concerned Citizens
Robert Hoyt, Director, Department of Environmental Protection
Daniel Locke, Chief, DEP/DSWS
David Lake, Special Assistant/Office of the Director, DEP
Stephen Lezinski, Engineer III, DEP/DSWS