



Janice K. Brewer
Governor

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

1110 West Washington Street • Phoenix, Arizona 85007
(602) 771-2300 • www.azdeq.gov



Henry R. Darwin
Director

April 11, 2013
PRU13-158

Mr. Jeff Drumm, P.E.
City of Tucson Environmental Services
4004 S. Park Ave.
P.O. Box 27210
Tucson, AZ 85726-7210

**Re: Vincent Mullins Landfill, Notification of Proposed Activity, Geotechnical Exploration
Proposed Kolb Road Alignment Over the Landfill**

Dear Mr. Drumm:

The Arizona Department of Environmental Quality (ADEQ), Solid Waste Plan Review Unit has received and reviewed the *Notification of Proposed Activity, Geotechnical Exploration, Proposed Kolb Road Alignment Over Vincent Mullins Landfill*, dated April 5, 2013, prepared by Terracon Consultants, Inc. ADEQ approves the plan to advance sixteen (16) soil borings (at approximately the same locations of Terracon's previous 16 boring locations sketched on the submitted aerial map) to a depth of approximately 100 feet using an 8-inch diameter hollow-stem auger. Soil sampling of each soil boring will begin at a depth of approximately 55 feet and continue at 5-foot intervals to a depth of 100 feet. Upon completion of the investigation, a report shall be submitted to ADEQ that documents the backfilling of the borings with bentonite, and the repairs/re-compaction of the landfill cover soils.

If you have any questions regarding this letter, please contact Mike Thompson, P.E., of my staff at (602) 771-2391 or toll free at (800) 234-5677, ext. 771-2391.

Sincerely,

Mike Prigge, P.E.
Manager
Solid Waste Plan Review Unit

RECEIVED

APR 22 2013

ENVIRONMENTAL SERVICES

cc: Brent M. Borchers, P.E., Terracon Consultants, 355 S. Euclid, Ste. 107, Tucson, AZ 85719
Brad Johnston, R.G., SCS Engineers, 4222 E. Thomas Rd., Ste. 310, Phoenix, AZ 85018
Facility file

Southern Regional Office
400 West Congress Street • Suite 433 • Tucson, AZ 85701
(520) 628-6733

FILE VM LANDFILL
CORR IN :



April 5, 2013

Arizona Department of Environmental Quality
1110 West Washington Street
Phoenix, Arizona 85007

Attn: Ms. Denise McConaghy

**RE: Notification of Proposed Activity
Geotechnical Exploration
Proposed Kolb Road Alignment Over
Vincent Mullins Landfill
Terracon Project No. 63125005**

Terracon Consultants Inc. is providing this notification of proposed activity that will affect the closed municipal solid waste Vincent Mullins Landfill in Tucson, Arizona. The City of Tucson had proposed an extension of Kolb Road that will cross the western edge of the landfill. The prime design consultant, PSOMAS, has included Terracon as a geotechnical engineering sub-consultant, and SCS Engineers as sub-consultant to better define the characteristics of the landfill material. Approximately three years ago SCS advanced seven soil borings in this area that extended through the landfill material. Shortly after SCS's exploration, Terracon advanced one soil boring in this area extending through the landfill material. In 2012, Terracon advanced an additional 15 soil borings to depths of approximately 50 feet.

Our scope of services is to perform additional investigation at approximately the same locations at each of Terracon's previous 16 boring locations. The previous soil borings encountered up to approximately 2 to 12 feet of landfill cap material (clayey sand), over approximately 18 to 36 feet of landfill debris, and native silty sand with gravel soils below. Our soil sampling will begin at a depths of approximately 55 feet and continue at 5-foot intervals to depths of 100 feet. Split-spoon (SPT) and ring samples will be taken for purpose of geotechnical engineering and design of foundations and roadway. We will use a methane monitoring device during our drilling, as we did previously.

We will coordinate with SCS for assistance in locating our boring locations, as SCS has knowledge of the locations of existing landfill gas mitigation piping that is installed in this area. In addition, Psomas will survey in the boring locations. We have attached a site map showing our proposed boring locations. Bluestake for the identification of other potential buried will be contacted and will be completed before we begin our explorations.



Terracon Consultants, Inc. 355 South Euclid, Suite 107 Tucson, Arizona 85719
P [520] 770 1789 F [520] 792 2539 terracon.com

Geotechnical



Environmental



Construction Materials



Facilities

Notification of Proposed Activity – Vincent Mullins Landfill
Terracon Project No. 63125005
April 5, 2013



We intend to advance our soil boring with a CME-75 drill rig using 8-inch-diameter hollow-stem auger. During our drilling we will segregate soil cover and soils below the bottom of the landfill from the landfill waste. The landfill waste will temporarily be placed on plastic sheeting. Upon completion of each of our borings, we intend to backfill the lower portion of the boring with soil cuttings, and the 20 feet directly below and five feet above the landfill waste with hydrated bentonite. Landfill drill cuttings will be backfilled within the landfill zone, and the soils from the soil cover will be replaced above the landfill waste. We will moisten and hand compact the cover soils in one-foot lifts.

If you have any questions about our planned field work in this area, please contact me at (520-770-1789).

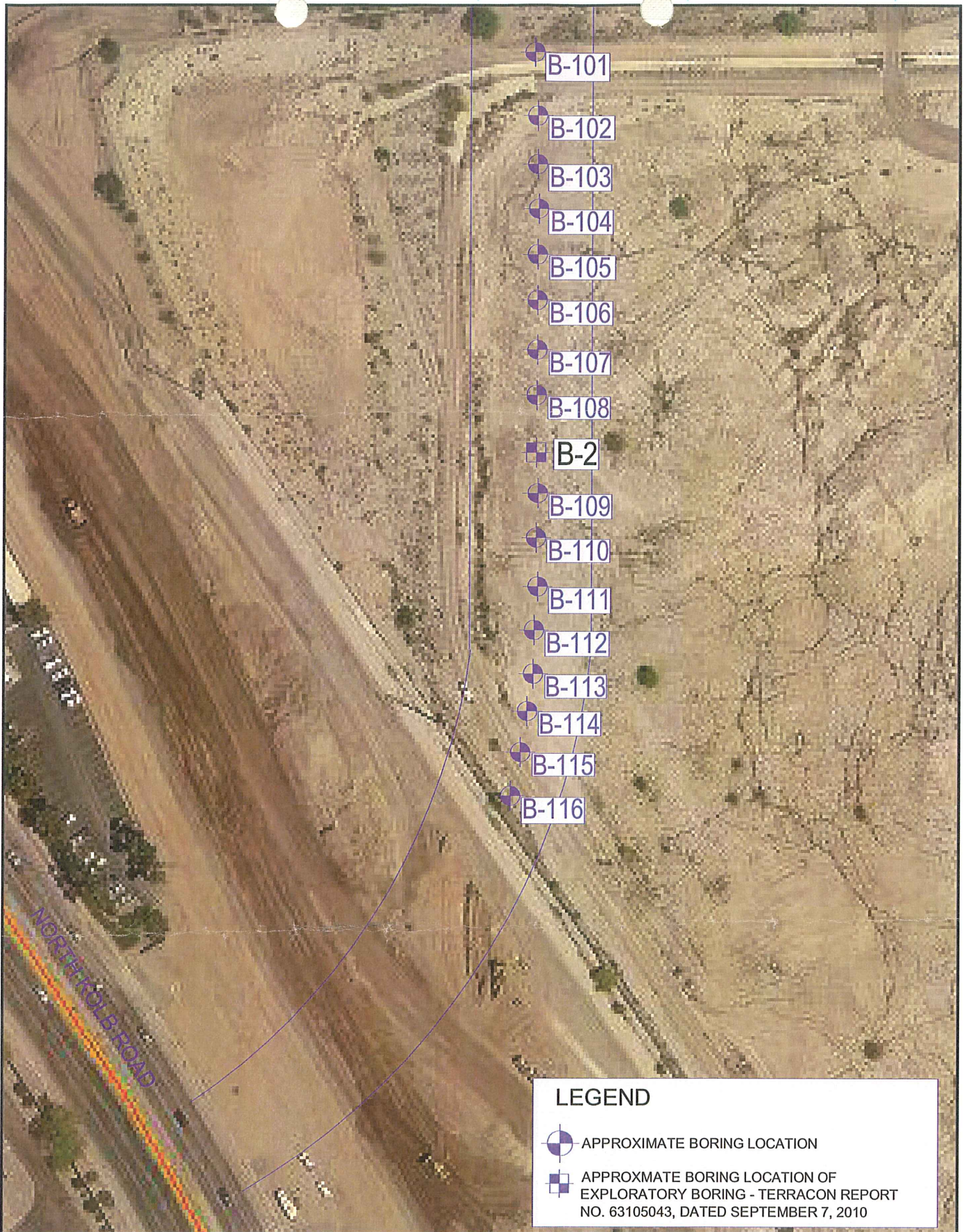
Sincerely,
Terracon Consultants, Inc.

A handwritten signature in purple ink, appearing to read "Brent M. Borchers". The signature is fluid and cursive.



Brent M. Borchers, P.E.
Office Manager

Attachments: (1) Site Plan

Copies: (1) Addressee
(1) Attn: Jeff Drumm, P.E., City of Tucson Environmental Services
(1) Attn: Kevin Thornton, P.E., PSOMAS
(1) Attn: Brad Johnston, R.G., SCS



LEGEND

-  APPROXIMATE BORING LOCATION
-  APPROXIMATE BORING LOCATION OF EXPLORATORY BORING - TERRACON REPORT NO. 63105043, DATED SEPTEMBER 7, 2010

Project Mngc	BMB
Drawn By:	BCW
Checked By:	BMB
Approved By:	BMB

Project No.	63125005
Scale:	NA
File No.	63125005
Date:	11/2012

Terracon
 Consulting Engineers and Scientists
 355 SOUTH EUCLID, SUITE 107 TUCSON, ARIZONA 85719
 PH. (520) 770-1789 FAX. (520) 792-2539

SITE PLAN & BORING LOCATIONS DIAGRAM
 PSOMAS
 SABINO-KOLB EXTENSION
 MULLINS LANDFILL BRIDGE
 TUCSON ARIZONA

EXHIBIT
 A-1