



PHILIPS

Philips Semiconductors

June 14, 1996

Mr. Benito Garcia
New Mexico Environment Department
Hazardous & Radioactive Materials Bureau
2044A Galisteo Street
Santa Fe, NM 87505

Federal Express

SUBJECT: Quarterly Progress Report and RFI Workplan

Dear Mr. Garcia:

In compliance with Philips Semiconductors' HSWA permit (NMD000709782-1), modified March 18, 1996, to include the Coronado Municipal Landfill, the following information is enclosed:

- RFI Workplan
- Maps depicting the location of all water supply wells within a one mile radius of the facility (part of RFI Workplan)
- Maps characterizing/describing the slope of the water table or potentiometric surface underlying the facility (part of the RFI Workplan)

This letter also serves as the quarterly progress report as required. The following progress has been made between March 18 and June 14, 1996.

- D.1(a) - A description of the work completed and an estimate of the percentage of work completed: The draft RFI Workplan was completed and represents approximately 20 percent of the work anticipated to be conducted under the permit requirements.
- D.1(b) - Summaries of all findings, including summaries of laboratory data: A quarterly groundwater monitoring report (D.B. Stephens and Associates, May 1996) was submitted on May 27, 1996. This groundwater report includes analytical results for Appendix IX constituents for Philips' monitoring wells MW-1, MW-2, MW-3, and MW-4. The only constituents found in the groundwater were Arsenic, Barium, Chromium, Zinc, and Perchloroethylene. All levels found were below the NMWQCC standards for groundwater.
- D.1(c) - Summaries of all problems or potential problems encountered during the reporting period and actions taken to rectify problems: No problems to report.
- D.1(d) - Projected work for the next reporting period: Quarterly groundwater monitoring will continue and groundwater samples will be obtained from wells MW-1, MW-2, MW-3, and MW-4 in July 1996. Philips will be meeting with the City of Albuquerque to discuss their participation in RFI field activities associated with installing additional monitoring wells within and surrounding the former Coronado Municipal Landfill. NMED will be reviewing the draft RFI Workplan. Philips will also address all NMED comments on the submitted draft RFI Workplan if NMED provides all comments to Philips by August 16, 1996.



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- D.1(e) - Summaries of contacts pertaining to corrective action or environmental matters with representatives of the local community, public interest groups or State government during the reporting period:
City of Albuquerque: Philips has met with the City of Albuquerque to discuss the installation of four monitoring wells proposed by the City. The well locations and design criteria have not yet been finalized.
New Mexico Environment Department: Philips discussed required monitoring requirements of Appendix VIII constituents as codified in 40 CFR 261. This was changed to the more appropriate Groundwater Monitoring List as codified in Appendix IX of 40 CFR 264.
New Mexico Environment Department: Due to the results of the quarterly groundwater monitoring, Philips requested that the list of required analytes for groundwater be reduced from Appendix IX to VOCs. NMED agreed to reduce the list to VOCs, SVOCs, metals, and organochlorine pesticides.
New Mexico Environment Department: Philips discussed our planned phased approach for the RFI Workplan. NMED was in agreement with the phased approach concept.
- D.1(f) - Changes in key project personnel during the reporting period: Mr. John Kinker has been hired as an Environmental Engineer for Philips to back-up Ms. Melanie McKinley prior to and during her maternity leave.
- D.1(g) - Summaries of all changes made in implementation during the reporting period: No changes made.

If you have any questions regarding this submission, please call our technical contact, Melanie McKinley at (505) 822-7634. Please be aware that Ms. McKinley is still my duly authorized representative as specified in a letter from James Casey, Legal Counsel, dated 10/30/95. James Cochran, EHS Manager, is also authorized to act as my representative for this RFI work.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure 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.

Sincerely,



Keith Hampe
Vice President, Albuquerque Operations

(ENV629)

Enclosure

cc: Jim Cochran, EHS Manager
James Casey, Legal Counsel

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Philips Semiconductors

**RCRA FACILITY INVESTIGATION
WORK PLAN FOR SWMU #8
Former Coronado Municipal Landfill**

June 1996

Philips Semiconductors

**RCRA FACILITY INVESTIGATION
WORK PLAN FOR SWMU #8
Former Coronado Municipal Landfill**

June 1996



PHILIPS SEMICONDUCTORS
RCRA FACILITY INVESTIGATION WORK PLAN
FOR SWMU #8
FORMER CORONADO MUNICIPAL LANDFILL

Prepared for:

Philips Semiconductors
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Albuquerque, New Mexico 87113

Prepared by:

IT Corporation
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June 1996

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| B | Operations and Procedures |

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Annexes

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| II | Data Management Plan, Former Coronado Municipal Landfill |
| III | Health and Safety Plan, RCRA Facility Investigation at the Former Coronado Municipal Landfill, Albuquerque, New Mexico |
| IV | Community Relations Plan, Former Coronado Municipal Landfill |
| V | Project Management Plan, Former Coronado Municipal Landfill |

List of Abbreviations/Acronyms

ac	acre(s)
AIDS	Albuquerque Industrial Development Service
AMAFCA	Albuquerque Metropolitan and Flood Control Administration
amsl	above mean sea level
CFR	Code of Federal Regulations
CML	Coronado Municipal Landfill
COC	constituents of concern
cu yd	cubic yard
°F	degree(s) Fahrenheit
DCQAP	Data Collection Quality Assurance Plan
DQO	data quality objective
EB	Exploratory Boring
EMCON	EMCON Associates
EPA	U.S. Environmental Protection Agency
ERCO	Energy Resources Company
ERM	ERM-Rocky Mountain, Inc.
ESA	Environmental Site Assessment
ft	foot (feet)
hr	hour(s)
HSWA	Hazardous and Solid Waste Amendment
in.	inch(es)
L	liter(s)
LEL	lower explosive limit
µg/L	microgram(s) per liter
mg/kg	milligram(s) per kilogram
mi	mile(s)
mph	mile(s) per hour
MW	monitoring well
NFA	no further action
NMDGF	New Mexico Department of Game and Fish
NMED	New Mexico Environment Department
NMFRCD	New Mexico Forestry and Resource Conservation
NMWCC	New Mexico Water Quality Control Commission
NOAA	National Oceanic and Atmospheric Administration
PCE	tetrachloroethene
/	per
Philips	Philips Semiconductors
ppm	parts per million
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
SAP	sampling and analysis plan
SVOC	semivolatile organic compound

List of Abbreviations/Acronyms (Continued)_____

SWMU	solid waste management unit
TKN	total Kjeldahl nitrogen
TOC	total organic nitrogen
VOC	volatile organic compound

1.0 Introduction

This Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) Work Plan presents the technical approach to characterizing the nature and extent of potential contamination associated with Solid Waste Management Unit (SWMU) #8, known as the former Coronado Municipal Landfill (CML). This work plan satisfies the permit conditions as stipulated in Philips Semiconductors (Philips) Hazardous and Solid Waste Amendments (HSWA) Module IV—Corrective Action of RCRA Permit No. NMD000709782-1 (hereinafter referred to as RCRA Permit). The U.S. Environmental Protection Agency (EPA) issued the RCRA Permit on April 1, 1986. In 1995, EPA proposed to modify the RCRA Permit issued to Philips to reflect the newly identified SWMU called the CML. The permit was reissued by the New Mexico Environment Department (NMED) as HSWA Module IV (hereinafter referred to as the HSWA Module), which became effective March 18, 1996 (NMED, 1996a). Philips is submitting this work plan to the NMED in fulfillment of the RFI Work Plan submittal schedule as set forth in the HSWA Module.

This RFI Work Plan only addresses SWMU #8, the former CML. All other SWMUs associated with the Philips facility were closed in accordance with the provisions of the Part B Permit. Additionally, the occurrence of tetrachloroethene (PCE) in groundwater below SWMU #8 is not associated with operations at the Philips facility, because PCE has never been used at the facility.

SWMU #8 (CML) is a closed landfill located in Albuquerque, New Mexico (Figure 1-1). It was operated by the City of Albuquerque from 1963 to 1965 and received mainly household and commercial trash (EMCON, 1987). Historical aerial photographs (Section 1.4) indicate a disturbed area comprised of two sections that occupy an area of approximately 60 acres (ac), with a portion of the disturbed area containing the former CML (Figure 1-2). In 1980, Philips (formerly Signetics Company) bought approximately 60 ac of land to construct a new production plant for manufacturing computer microchips. During a preconstruction geotechnical investigation at the site, landfill material was found (ERCO, 1981). During the construction of the facility, part of the landfill material was excavated and removed from the site.

Throughout this RFI Work Plan, the term "site" refers to the former CML and the term "facility" applies to the Philips manufacturing operations. Additionally, this RFI Work Plan

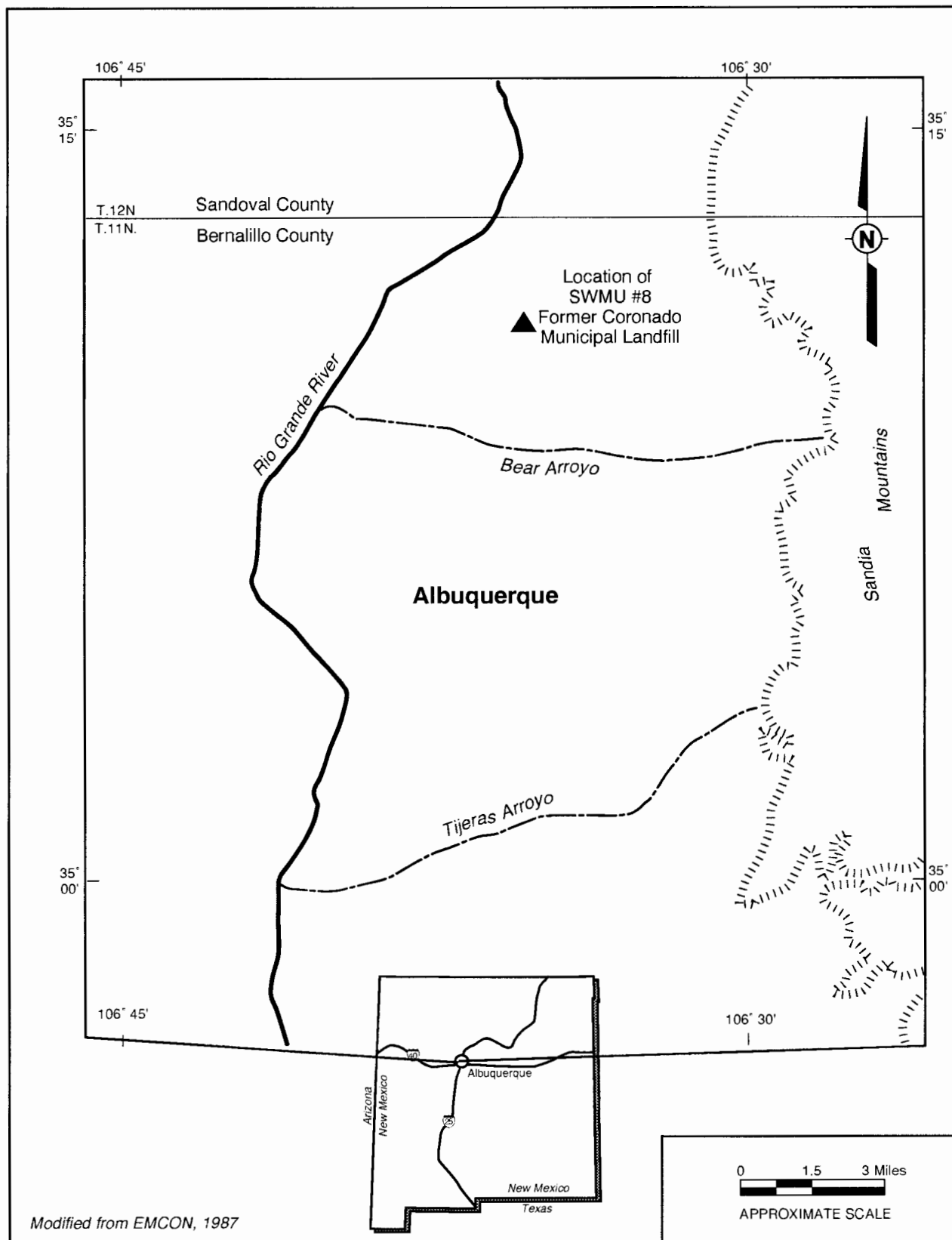


Figure 1-1
Location of SWMU #8, Former Coronado Municipal Landfill,
Albuquerque, New Mexico