



April 17, 2018

Mr. Jim Richmond (jim.richmond@maryland.gov)
Maryland Department of the Environment
Oil Control Program
1800 Washington Boulevard, Suite 620
Baltimore, MD 21230

**SUBJECT: Monitoring Well Abandonment
Ryder Truck Rental Facility LC-0498
8840 Corridor Road
Annapolis Junction, Maryland 20701
MDE Case 2016-0489 HO**

Dear Mr. Richmond:

Quality Environmental Solutions, Inc. (QES) has completed the abandonment of the three on-site groundwater monitoring wells at the subject Ryder Facility LC-0498 as required in the Maryland Department of the Environment (MDE) *Request for Monitoring Well Abandonment* letter dated March 5, 2018 (copy attached).

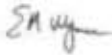
The three groundwater monitoring wells were abandoned on April 11, 2018 by *KIM Engineering*, a Maryland-licensed well driller, in accordance with COMAR 26.04.04.11 Abandonment Standards. Data concerning the monitoring wells are summarized in the following table with the well locations shown on Figure 1. The Water Well Abandonment-Sealing Report Forms, completed by *KIM* are attached.

Well #	Well Diameter (in)	Total Depth (ft)	Depth to Water (ft)
MW-1	2	49.70	43.38
MW-2	2	49.60	43.88
MW-3	2	48.50	43.50

The wells were sealed by filling the void space in the casing with bentonite. The manways and existing concrete pads were removed by use of a jackhammer and the abandonment was completed with a concrete surface seal. Photographs of the completed work are attached.

Ryder and QES look forward to receiving the Notice of Compliance for this project. If you have any questions concerning this project, please give me a call at 410-841-5552.

Sincerely,



Erin M. Wyman
Senior Project Manager

Attachments: MDE Request for Monitoring Well Abandonment
Figure 1: Site Map
Water Well Abandonment-Sealing Report Forms
Photographs

CC: Mr. Bert Nixon – Howard County Department of Health
Ms. Carrie Vinch – Ryder

QES File 706-006



Maryland

Department of the Environment

Larry Hogan, Governor
Boyd K. Rutherford, Lt. Governor

Ben Crumbles, Secretary
Horacio Tablada, Deputy Secretary

March 5, 2018

Ms. Carrie Anne Vinch
Ryder Transportation Services
8848 Corridor Road
Annapolis Junction MD 20701

RE: REQUEST FOR MONITORING WELL ABANDONMENT

Case No. 2016-0489-HO
Ryder Truck Rental Facility LC-0498
8840 Corridor Road, Annapolis Junction
Howard County, Maryland
Facility I.D. No. 10637

Dear Ms. Vinch:

The Maryland Department of the Environment's (the Department) Oil Control Program (OCP) recently completed a review of the case file for the above-referenced facility, including the *Site Assessment Report*, dated October 10, 2016; the *Underground Storage Tank (UST) Closure Reports*, dated September 9, 2016 and May 4, 2017; and the *Fourth Quarter Sampling Report and Case Closure Request*, dated January 8, 2018. This case was opened when OCP personnel were on site to observe the removal of a 6,000-gallon lube oil UST system, which was completed by a Maryland-certified UST technician on June 29, 2016. No visible perforations were observed in the lube oil UST. Groundwater was not encountered and liquid phase hydrocarbons were not observed in the excavation. The analytical results for the soil samples collected in the vicinity of the removed tank were either non-detect or below the Department's non-residential soil cleanup standards.

The *Site Assessment Report* documents the results of two subsurface investigations to determine if a release of diesel fuel occurred outside several containment sumps associated with the three 12,000-gallon fuel UST systems (two diesel and one gas). In January 2016, ten shallow hand-auger borings were completed in the vicinity of the dispenser islands. The investigation documented diesel fuel in the pea gravel underneath one of the satellite dispensers. Soil samples were collected from five of the borings and the results reported: total petroleum hydrocarbons - diesel range organics (TPH-DRO) up to 17,800 parts per million (ppm); TPH-gasoline range organics (GRO) up to 1,310 ppm; and naphthalene up to 5,690 parts per billion (ppb).

In August 2016, additional site investigation activities involved the completion of three direct-push borings in the area of impact previously identified and included the installation of three monitoring wells. Subsurface soils were screened with a photo-ionization detector and soil samples were collected from each of the borings. The soil sampling results reported TPH-DRO up to 14,000 ppm, TPH-GRO up to 737 ppm, and naphthalene up to 2,090 ppb. In August 2016, the first round of groundwater samples was collected from each of the newly installed monitoring wells. The analytical results reported methyl tertiary-butyl ether (MTBE) up to 5.2 ppb.

On March 9, 2017, the three 12,000-gallon USTs were removed by a Maryland-certified UST technician in the presence of OCP personnel. No visible perforations were observed in any of the removed tanks. Six soil samples were collected at a depth of approximately 13 feet below the ground surface. The soil samples were analyzed for full-suite volatile organic compounds, including fuel oxygenates and naphthalene, using EPA

Method 8260 and TPH-DRO and TPH-GRO using EPA Method 8015. All analytical results for the soil samples collected from the tank field area were non-detect for petroleum constituents. UST removal activities included over-excavation of petroleum-impacted soils identified during the site assessment activities in the vicinity of the dispenser islands. A total of 1,415.89 tons of petroleum-impacted soils were excavated for proper off-site disposal. The analytical results for all post-excavation soil samples collected in the vicinity of the removed UST systems and associated dispensers were either non-detect or below the Department's non-residential soil cleanup standards.

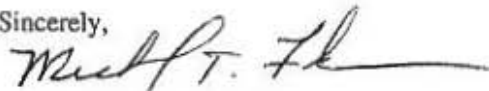
Groundwater samples were collected from the three monitoring wells on a quarterly basis in June, September, and December 2017. As reported in the *Fourth Quarter Sampling Report and Case Closure Request*, the analytical results remained non-detect or below standards with the following exception. TPH-DRO were reported in one groundwater sample collected in September 2017 at a concentration of 0.126 ppm, which exceeds the 0.047 ppm standard. The Department understands the site is served by municipal water. The risk assessment completed by your consultant using the seven risk factors described in the Department's *Maryland Environmental Assessment Technology for Leaking Underground Storage Tanks* guidance document concluded there is minimal risk of human or environmental exposure to the residual petroleum contaminants.

Based on the nature of the petroleum contamination currently known to the Department and the current non-residential use of the property, the Oil Control Program is considering this case for closure. Prior to the issuance of a case closure letter, the monitoring wells must be abandoned by a Maryland-licensed well driller in accordance with all applicable requirements of Code of Maryland Regulations (COMAR) 26.04.04.34. Provide copies of the required well abandonment reports to the Oil Control Program (Attn: Mr. Jim Richmond) and the Howard County Department of Health (Attn: Mr. Bert Nixon) no later than March 30, 2018. Following proper abandonment of the wells and receipt of all required documentation, the Department will issue case closure correspondence for the site.

This letter should not be construed as a waiver or limitation of the Department's right to take enforcement or other action with respect to activities not addressed by this letter or unknown to the Department at this time, including newly discovered contamination or the exacerbation of existing contamination. The Department and the State of Maryland retain all authority and rights against any persons in any way responsible for causing the contamination present at or migrating from the site, including the right to seek all available relief, including equitable relief and damages of any nature, such as compensatory and natural resource damages, resulting from the release of any contamination at the site.

If you have any questions, please contact the case manager, Mr. Jim Richmond, at 410-537-3337 (email: jim.richmond@maryland.gov) or me at 410-537-3487 (email: mike.frank@maryland.gov).

Sincerely,



Michael T. Frank, Southern Region Supervisor
Remediation and State-Lead Division
Oil Control Program

JWR/nln

cc: Mr. Bert Nixon (Howard County Health Dept.)
Ms. Jackie Ryan
Mr. Andrew B. Miller
Mr. Christopher H. Ralston
Ms. Hilary Miller

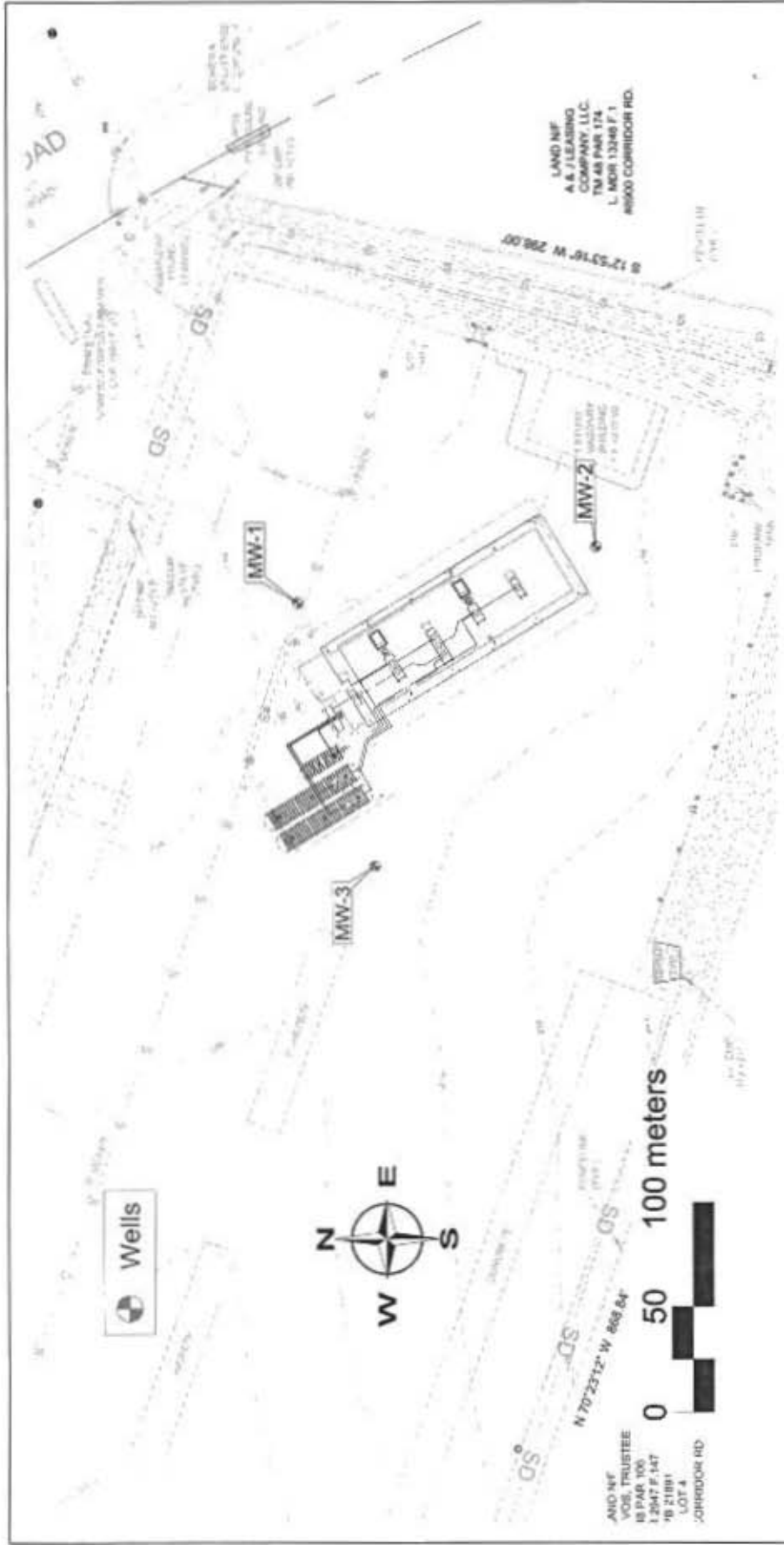


Figure 1: Site Plan
 December 4, 2017
 Ryder Annapolis Junction
 LC-0498

Drawn by: Quality Environmental Solutions
 Drawn on: January 4, 2018
 QES File: 706-006

MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION
 1800 Washington Blvd., Baltimore, Maryland 21230 (410) 537-3784

WATER WELL ABANDONMENT-SEALING REPORT FORM

MW1

SUBMIT COPIES OF COMPLETED FORM TO:

- * COUNTY ENVIRONMENTAL AGENCY (contact MDE, WMA if address needed)
- * WELL OWNER
- * MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM

DATE WELL ABANDONED: 04/11/2018 (month/day/year)

* PERMIT NUMBER OF ABANDONED WELL (if any) HO-94-4793

* PERMIT NUMBER OF REPLACEMENT WELL: NA

* PERSON ABANDONING WELL: Kimes WELL DRILLER'S LICENSE NUMBER: M60063

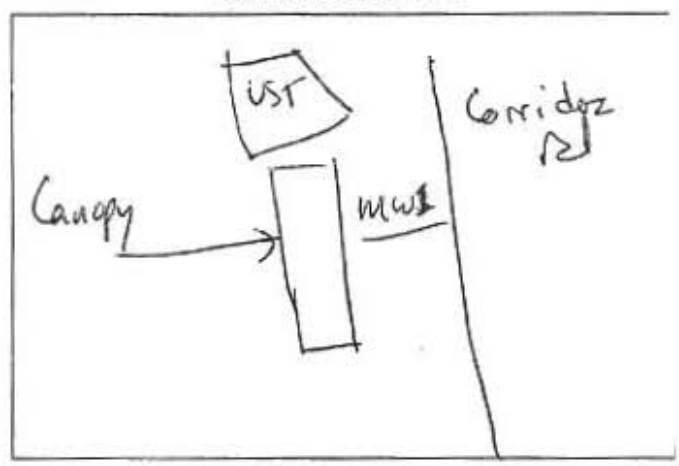
* OWNER'S NAME: Ryder Trade Rental CIRCLE: MWD / MSD / MGD

* WELL LOCATION:
 COUNTY: Howard
 NEAREST TOWN: Annapolis Jct
 TAX MAP _____ BLOCK _____ PARCEL _____
 SUBDIVISION: _____
 SECTION: _____ LOT: _____
 STREET ADDRESS: 8840 Corridor Rd

LATITUDE 39.127864

LONGITUDE 76.799465

SITE LOCATION MAP



* TYPE OF WELL BEING ABANDONED:
 DRILLED JETTED
 BORED HAND DUG
 OTHER (specify) _____

* USE CODE: DOMESTIC _____ MUNICIPAL/PUBLIC _____
 IRRIGATION _____ INDUSTRIAL _____
 TEST/OBSERVATION _____ GEOTHERMAL _____

* TYPE OF CASING:
 STEEL PLASTIC
 CONCRETE _____ OTHER (specify) _____

SIZE OF CASING: 2 INCHES IN DIAMETER

DEPTH OF WELL: 50 FEET DEEP

WAS ANY CASING REMOVED? YES NO

LOG OF SEALING MATERIAL

MATERIAL	FEET	
	FROM	TO
Hydrated Bentonite	1	50
VOLUME OF MATERIAL USED		
<u>1200</u>		

MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION
1800 Washington Blvd., Baltimore, Maryland 21230 (410) 537-3784

WATER WELL ABANDONMENT-SEALING REPORT FORM

SUBMIT COPIES OF COMPLETED FORM TO:

- * COUNTY ENVIRONMENTAL AGENCY (contact MDE, WMA if address needed)
- * WELL OWNER
- * MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM

MW2

DATE WELL ABANDONED: 07/11/2018 (month/day/year)

* PERMIT NUMBER OF ABANDONED WELL (if any)

HO-94-4795

* PERMIT NUMBER OF REPLACEMENT WELL:

WA - -

* PERSON ABANDONING WELL: KAMES

WELL DRILLER'S LICENSE NUMBER: M6D 063

CIRCLE: MWD / MSD / MGD

* OWNER'S NAME: Ryder Truck Rental

* WELL LOCATION:

SITE LOCATION MAP

COUNTY: Howard

NEAREST TOWN: Annapolis Jct

TAX MAP _____ BLOCK _____ PARCEL _____

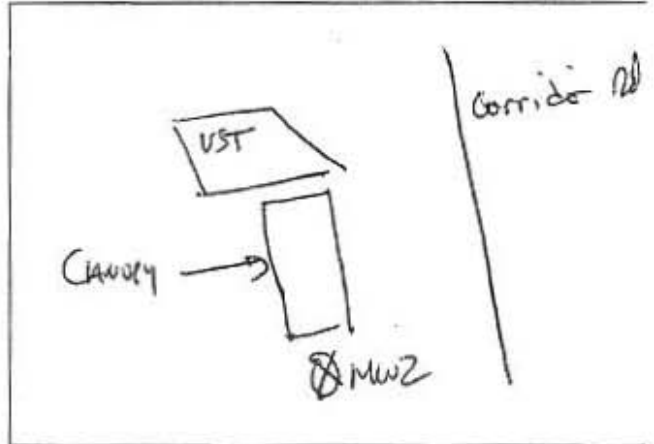
SUBDIVISION: _____

SECTION: _____ LOT: _____

STREET ADDRESS: 8840 Corridor Rd

LATITUDE 39.127521

LONGITUDE 76.799349



* TYPE OF WELL BEING ABANDONED:

- DRILLED
- BORED
- OTHER (specify) _____
- JETTED
- HAND DUG

LOG OF SEALING MATERIAL

* USE CODE: DOMESTIC

- IRRIGATION
- TEST/OBSERVATION
- MUNICIPAL/PUBLIC
- INDUSTRIAL
- GEOTHERMAL

* TYPE OF CASING:

- STEEL
- CONCRETE
- PLASTIC
- OTHER (specify) _____

SIZE OF CASING: 2 INCHES IN DIAMETER

DEPTH OF WELL: 50 FEET DEEP

WAS ANY CASING REMOVED? YES NO

MATERIAL	FEET	
	FROM	TO
Berbonite	1	50

VOLUME OF MATERIAL USED

MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION
1800 Washington Blvd., Baltimore, Maryland 21230 (410) 537-3784

WATER WELL ABANDONMENT-SEALING REPORT FORM

MW3

SUBMIT COPIES OF COMPLETED FORM TO:

- * COUNTY ENVIRONMENTAL AGENCY (contact MDE, WMA if address needed)
- * WELL OWNER
- * MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM

DATE WELL ABANDONED: 04/11/2018 (month/day/year)

* PERMIT NUMBER OF ABANDONED WELL (if any)

HO - 14 - 4794
N/A - - -

* PERMIT NUMBER OF REPLACEMENT WELL:

* PERSON ABANDONING WELL: Kimes

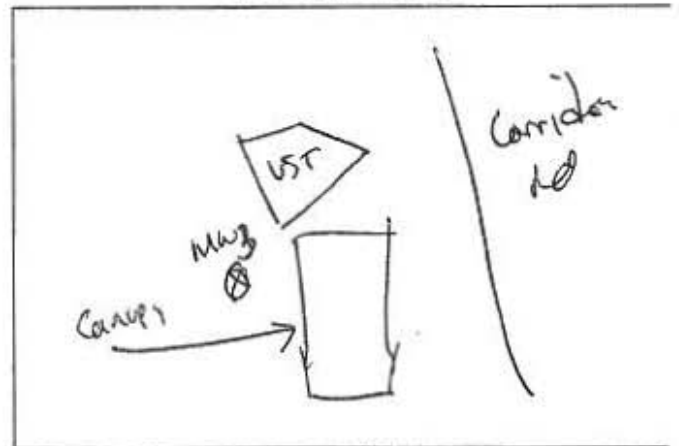
WELL DRILLER'S LICENSE NUMBER: MSD 063

* OWNER'S NAME: Ryder Truck Rental

CIRCLE: MWD / MSD / MSD

* WELL LOCATION:
COUNTY: Howard
NEAREST TOWN: Annapolis Jct.
TAX MAP _____ BLOCK _____ PARCEL _____
SUBDIVISION: _____
SECTION: _____ LOT: _____
STREET ADDRESS: 8840 Corr. dr Rd

SITE LOCATION MAP



LATITUDE 39.127717

LONGITUDE 76.799796

* TYPE OF WELL BEING ABANDONED:
 DRILLED JETTED
 BORED HAND DUG
 OTHER (specify) _____

LOG OF SEALING MATERIAL

* USE CODE: DOMESTIC IRRIGATION MUNICIPAL/PUBLIC
 TEST/OBSERVATION INDUSTRIAL
 _____ GEOTHERMAL

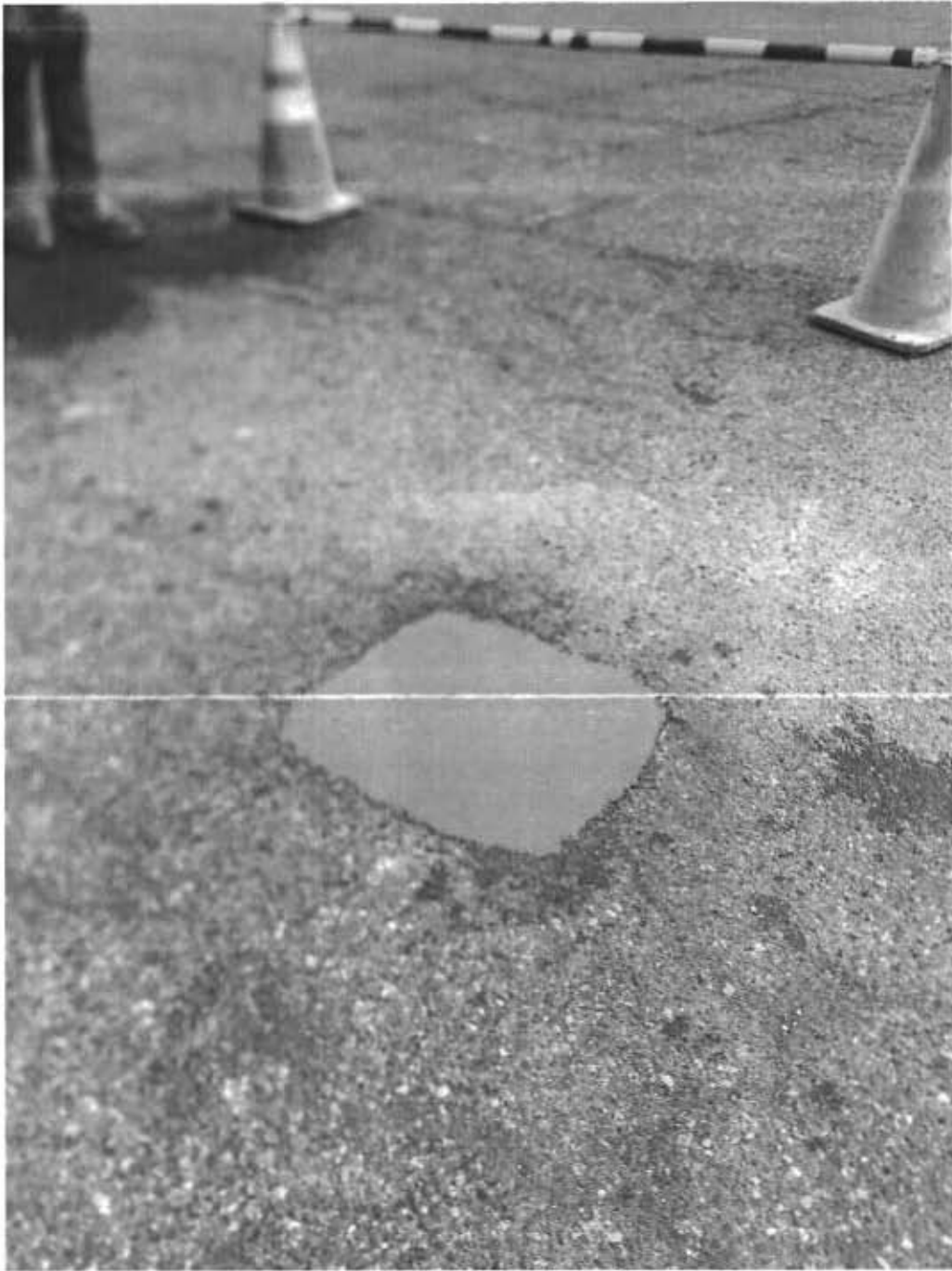
* TYPE OF CASING:
 STEEL PLASTIC
 CONCRETE OTHER (specify) _____

SIZE OF CASING: 2 INCHES IN DIAMETER

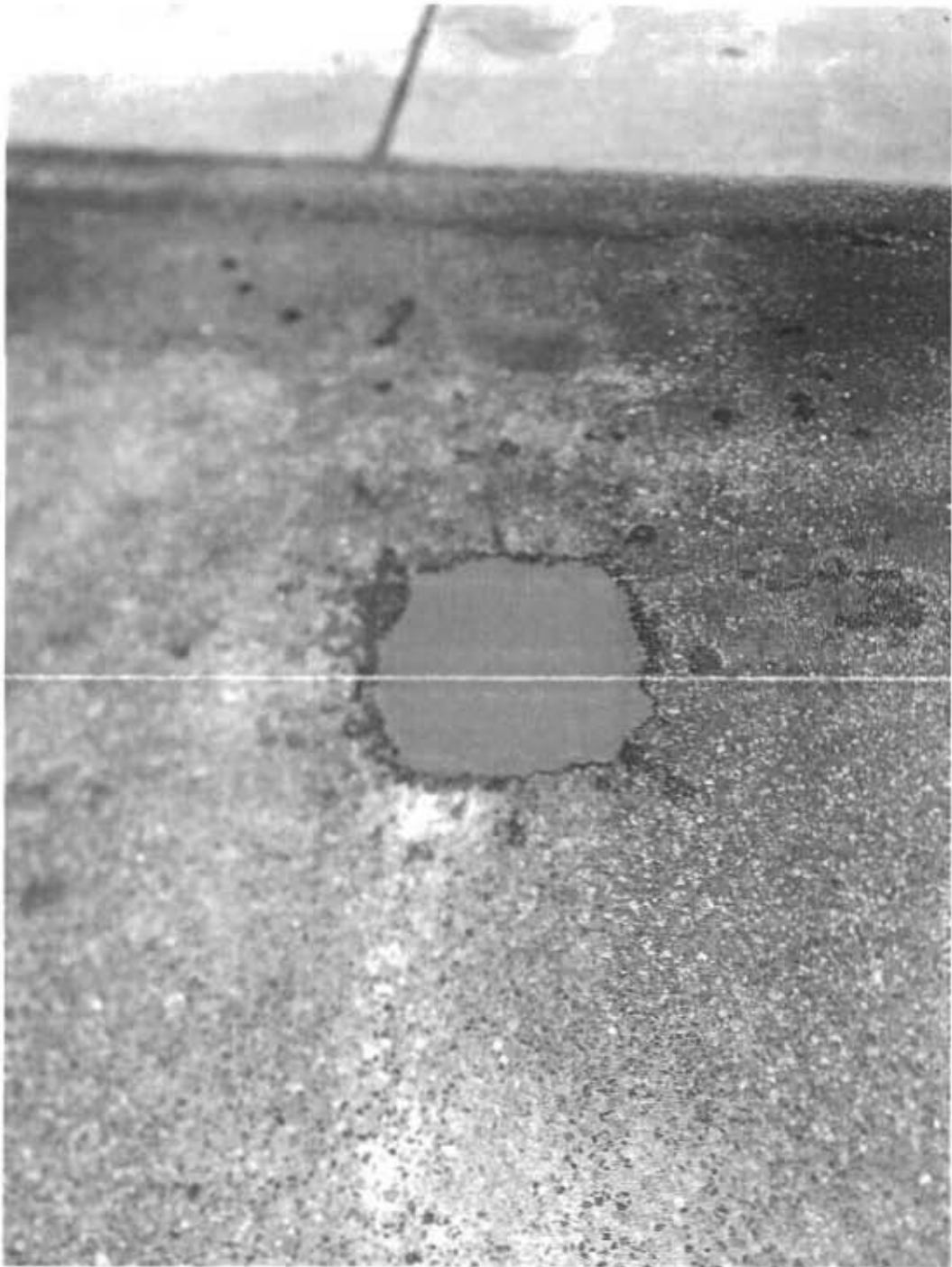
DEPTH OF WELL: 30 FEET DEEP

WAS ANY CASING REMOVED? YES NO

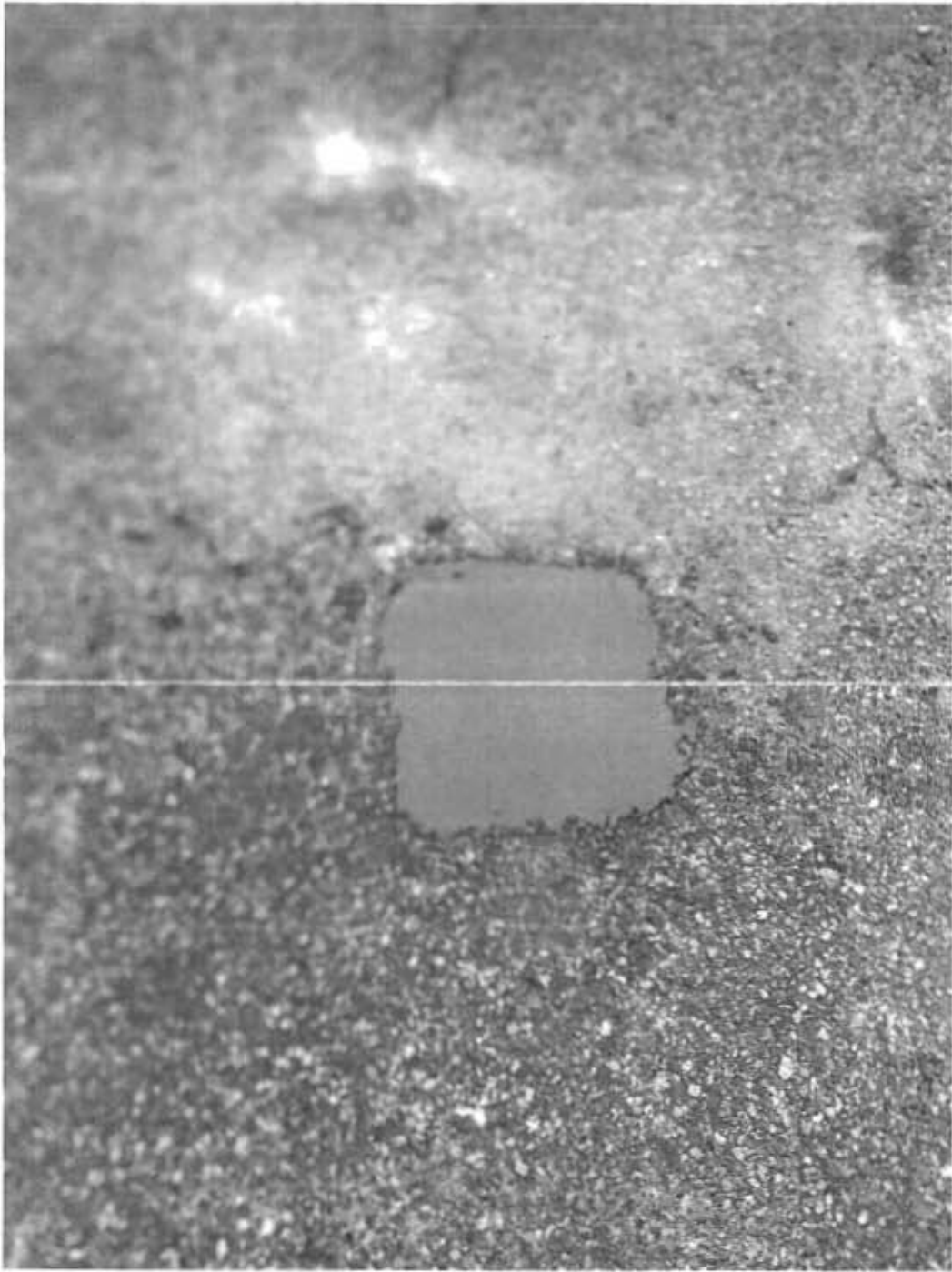
MATERIAL	FEET	
	FROM	TO
<u>Bentonite</u>	<u>1</u>	<u>50</u>
VOLUME OF MATERIAL USED		



MW-1



MW-2



MW-3