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November 16, 2005

Project No. 08BP.01790.07

Monitoring Well Clerk
County of San Diego, Department of Environmental Health
Land and Water Quality Division
P.O. Box 129261
San Diego, California 92112-9261

Subject: **Well Destruction Report**
ARCO Facility No. 1790
6110 Mission Gorge Road
San Diego, California
APN 461-220-3000
SAM Case No. H05115-001
Well Permit No. LMON103281

Dear Madam or Sir:

SECOR International Incorporated (SECOR), on behalf of Atlantic Richfield Company, destroyed 12 of the 13 groundwater monitoring wells at the referenced site (Figure 1) under the permit number LMON103281 issued by the County of San Diego Department of Environmental Health (DEH). A site plan and a copy of the well permit cover sheet are attached. Details of the well destructions are presented below.

SECOR personnel observed Test America Drilling Corporation (Test America) destroy eight on-site wells (designated MW-1 through MW-8) and two off-site wells (designated MW-11 and MW-13) from September 12 through 19, 2005. Test America used a CME75 truck-mounted drill rig, equipped with 8-inch outer diameter (OD) hollow-stem augers to remove the annular materials from wells MW-1, MW-2, and MW-4 through MW-8. Test America used a SCHRAMM T685 air-rotary rig equipped with an 8-inch bit to remove the annular materials from wells MW-3 and MW-11. Test America began overdrilling well MW-13 using the hollow-stem auger method, but changed to the air rotary method after meeting refusal. The boreholes were backfilled with bentonite grout using the tremie method, from the bottom of each borehole and typically topped with hydrated bentonite chips to approximately three feet below ground surface. The top three feet were filled with concrete to the level of the surrounding ground surface.

Due to the difficult drilling conditions and presence of overhead obstructions, the DEH approved destruction of two off-site wells MW-9 and MW-10 by the pressure grouting method. October 26, 2005 SECOR observed Test America destroy wells MW-9 and MW-10 using a limited-access drill rig. The PVC casings were cut below the annular seal to the bottom of the well using a carbide bit. A vented well cap was placed on top of the casings of the wells, and grout was introduced into the casings at a minimum of 25 pounds per square inch in one continuous operation to avoid bridging. The two wells were capped with concrete to the level of the ground surface.

The approximate quantities of materials used to backfill the boreholes were as follows:

Well Number	Boring Depth (feet bgs)	Well Depth (feet bgs)	Hydrated Bentonite Grout (cubic feet)	Hydrated Bentonite Chips (cubic feet)	Concrete (cubic feet)
MW-1	31.5	31	10.4	0.4	6
MW-2	25.5	25	12.4	0.8	5.7
MW-3	30.5	30	24.8	0	13
MW-4	34	34.5	12.4	0.8	34
MW-5	35.5	35	12.4	0.4	6
MW-6	35	35.5	12.4	1.5	5.7
MW-7	34	33.5	8.3	0.4	8
MW-8	35.5	35	12.4	0.8	5.7
MW-9	33.5	33	5.4	0.8	3.3
MW-10	33.5	33	8	0.2	2.6
MW-11	35	34.5	12.4	0.8	5.8
MW-13	29.5	29	12.4	1.5	1.2

Feet bgs= feet below ground surface

Please contact the undersigned at (619) 296-6195 if any additional information is required.

Respectfully submitted,

SECOR International Incorporated

Melissa Sanett
for Timothy Kimball
Staff Scientist

Bradley Eisenberg, PG #6872
Senior Geologist

PROFESSIONAL GEOLOGIST
BRADLEY G. EISENBERG
No. 6872
Exp 11/07
STATE OF CALIFORNIA

cc: Mr. Danny Martinez – SAM
Mr. Manuel Marquez – Test America

Attachments: Figure 1 – Site Plan
Monitoring Well Destruction Permit Cover Sheet

OCT 1 1 2005

2ND MODIFICATION
PERMIT #LMON103281
A.P.N. #461-220-30, 49; 461-180-10
EST #H05115-001

COUNTY OF SAN DIEGO
DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION
MONITORING WELL PROGRAM

MONITORING WELL DESTRUCTION PERMIT

SITE NAME: ARCO #1790 & OFFSITE

SITE ADDRESS: 6151-6153 FAIRMOUNT AV., & 6080 MISSION GORGE RD., SAN DIEGO, CA 92120

PERMIT TO: **DESTROY 12 GROUNDWATER MONITORING WELLS**

PERMIT APPROVAL DATE: JULY 28, 2005

PERMIT EXPIRES ON: NOVEMBER 25, 2005

RESPONSIBLE PARTY: BP WEST COASTS PRODUCTS, LLC

PERMIT CONDITIONS:

1. **A variance in well destruction is approved to allow pressure grouting for MW-9, MW-10, as proposed in letter from B. Eisenberg, PG, dated 9-29-05.**

2. **All material within the original borehole, which includes the casing, filterpack and annular seal, must be removed. The borehole must be completely filled with an approved sealing material as specified in Department of Water Resources Bulletin 74-90.**

3. All water and soil resulting from the activities covered by this permit must be managed, stored and disposed of as specified in the SAM Manual in Section 5, II, E- 4. (**http://www.sdcounty.ca.gov/deh/lwq/sam/manual_guidelines.html**). In addition, drill cuttings must be properly handled and disposed in compliance with the Stormwater Best Management Practices of the local jurisdiction.

4. Within 60 days of completing work, submit a well destruction report, including description of the method of destruction, type and volume of materials used (in cubic feet) to the Monitoring Well Permit Desk. This report must include all items required by the SAM Manual, Section 5, Pages 5-7.

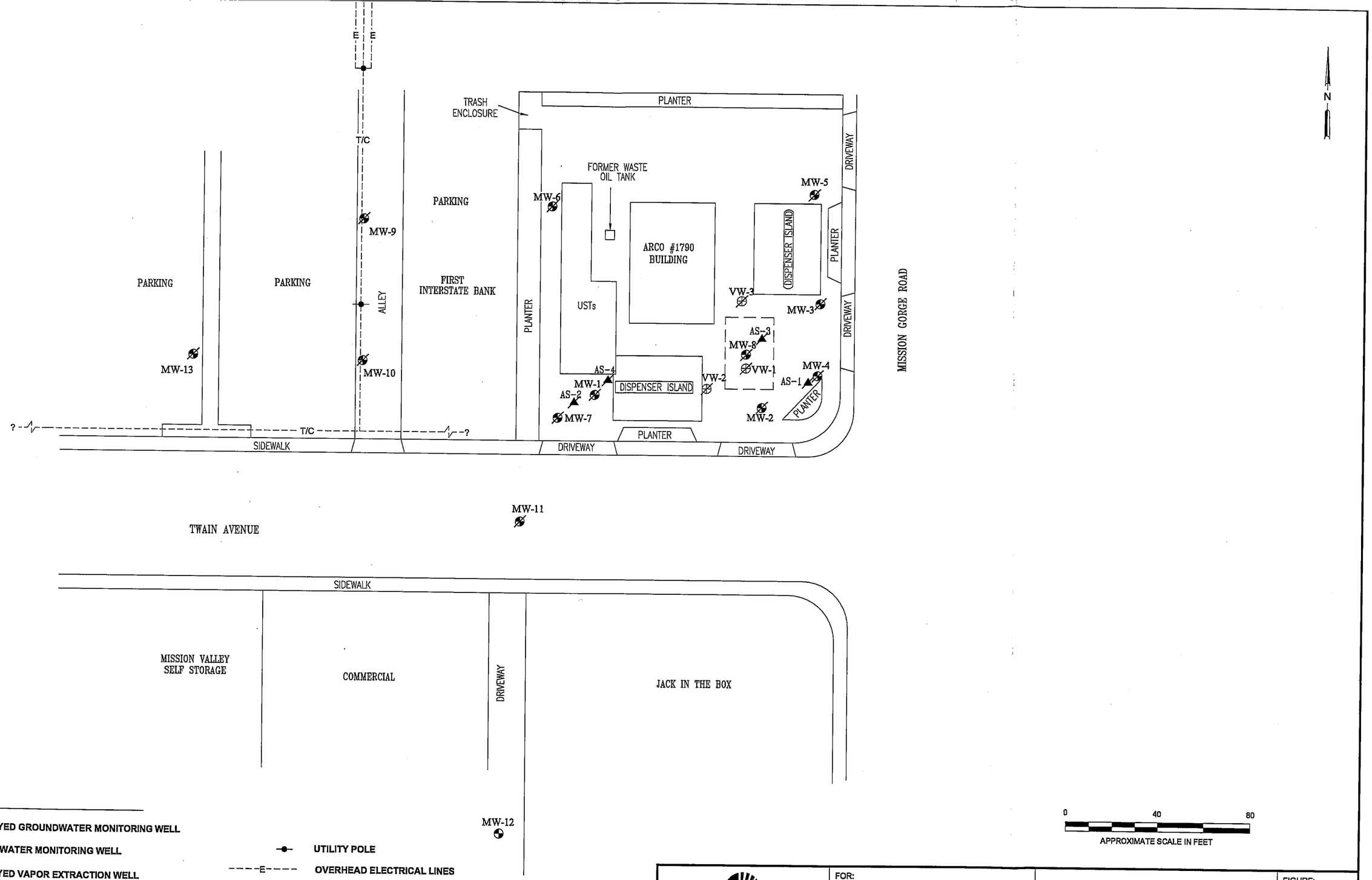
5. This office must be given 48-hour notice of any drilling activity on this site and advanced notification of drilling cancellation. Please contact the Well Permit Desk at 619) 338-2339.

NOTE: **This permit does not constitute approval of a work plan as defined in Section 2722 of Article 11 of C.C.R., Title 23. Work plans are required for all unauthorized release investigations in San Diego County.**

APPROVED BY: Carol Spangenberg DATE: 10/06/2005
CAROL SPANGENBERG

NOTIFIED: 10/6/05

DEH:SAM-9075 (3/05)



LEGEND:

MW-1	DESTROYED GROUNDWATER MONITORING WELL
MW-12	GROUNDWATER MONITORING WELL
VW-2	DESTROYED VAPOR EXTRACTION WELL
AS-2	DESTROYED AIR SPARGE WELL
	FORMER UNDERGROUND STORAGE TANK AREA
—●—	UTILITY POLE
----E----	OVERHEAD ELECTRICAL LINES
--- T/C ---	OVERHEAD TELEPHONE OR COMMUNICATION LINES

SECOR
2655 CAMINO DEL RIO NORTH, SUITE 302
SAN DIEGO, CALIFORNIA
PHONE: (619) 296-6195/296-6199 (FAX)

FOR:			FIGURE:
ARCO FACILITY #1790 6110 MISSION GORGE ROAD SAN DIEGO, CALIFORNIA		SITE PLAN	1
JOB NUMBER: 08BP.U1790.04	DRAWN BY: JA	CHECKED BY:	APPROVED BY:	DATE: 11/15/05

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