



ALISTO ENGINEERING GROUP

May 1, 1996

Mr. Scott Hooton
BP Oil Company
Environmental Resources Management
295 S.W. 41st Street
Building 13, Suite N
Renton, Washington 98055

10-138-08-001

Subject: Groundwater Monitoring ~~Well Destruction Report~~
BP Oil Company Service Station No. 11105
3519 Castro Valley Boulevard
Castro Valley, California

Dear Mr. Hooton:

BP Oil Company retained Alisto Engineering Group to destroy Monitoring Well MW-8 at BP Oil Company Service Station No. 11105, 3519 Castro Valley Boulevard, Castro Valley, California. The location of the former groundwater monitoring well is shown on the attached site plan.

Monitoring Well **MW-8** was destroyed due to proposed widening of Redwood Road. A permit was acquired from the Zone 7 Water Agency, Pleasanton, California, a copy of which is presented in Appendix A.

On April 25, 1996, Alisto supervised destruction of the monitoring well. The well was originally drilled and installed to 20 feet below grade with 8-inch-diameter hollow-stem augers. Destruction of the well consisted of overdrilling the borehole with 8-inch-diameter hollow-stem augers to 20 feet below grade, removing well construction materials, and backfilling the borehole with tremied neat cement. The boring log of the former monitoring well and the Department of Water Resources Form 188 for well destruction are included in Attachment B.


ENVIRONMENTAL
PROTECTION
96 MAY -2 PM 1:54

Mr. Scott Hooton
May 1, 1996
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Please call if you have questions or comments.

Sincerely,

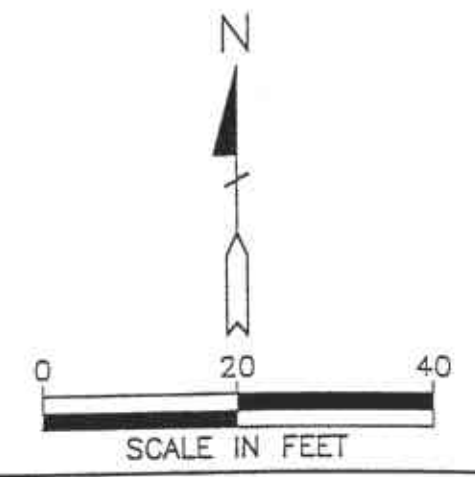
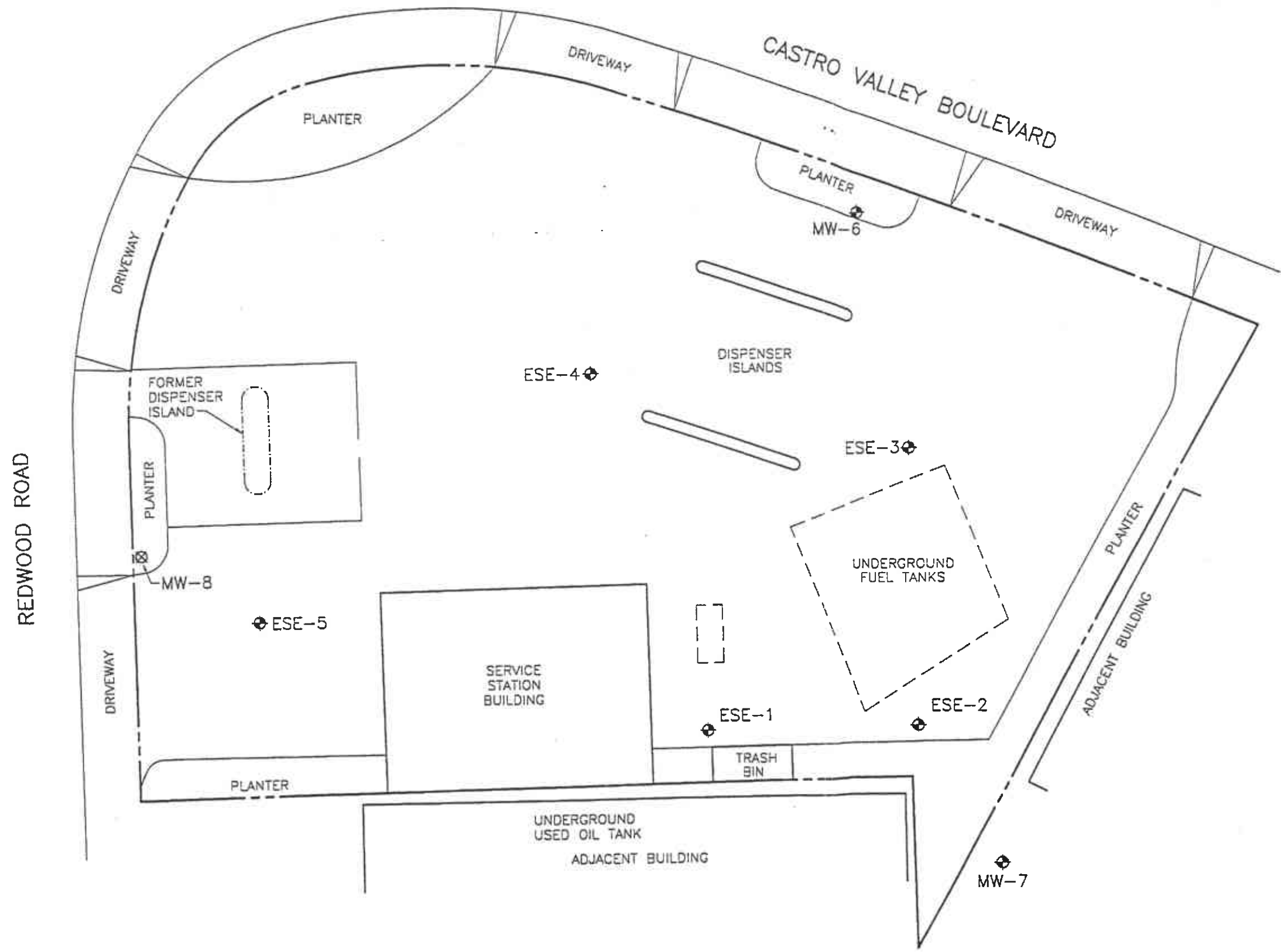
ALISTO ENGINEERING GROUP





Brady Nagle
Project Manager

Enclosure

cc: Mr. Stanley Fong, Alameda County Public Works Agency (with enclosures)
Mr. Scott Seery, Alameda County Health Care Services Agency (with enclosures)



LEGEND

| | |
|---|-----------------------------|
|  | GROUNDWATER MONITORING WELL |
|  | DESTROYED WELL |

SITE PLAN
 BP OIL SERVICE STATION NO. 11105
 3519 CASTRO VALLEY BOULEVARD
 CASTRO VALLEY, CALIFORNIA
 PROJECT NO. 10-138



10138A-DWG 4-9-98 MK 1-20

ATTACHMENT A
WELL DESTRUCTION PERMIT



ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE

PLEASANTON, CALIFORNIA 94588

VOICE (510) 484-2600

FAX (510) 462-3914

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 3519 Castro Valley Blvd
Castro Valley, CA

PERMIT NUMBER 96303
LOCATION NUMBER 3S/2W 3080

CLIENT
Name B.P. OIL CO. 295 SW
Address 41ST ST BLDG 13 STE N Voice (206) 251-0689
City RENTON, WA Zip 98055

PERMIT CONDITIONS

Circled Permit Requirements Apply

APPLICANT
Name ALISTO ENGINEERING & GRADING
1575 TRIMM BLVD Fax (510) 295-1823
Address SUITE 201 Voice (510) 295-1650
City WALNUT CREEK, CA Zip 94598

A. GENERAL

1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well Projects, or drilling logs and location sketch for geotechnical projects.
3. Permit is void if project not begun within 90 days of approval date.

TYPE OF PROJECT

| | | | |
|---------------------|--------------------------|----------------------------|-------------------------------------|
| Well Construction | <input type="checkbox"/> | Geotechnical Investigation | <input type="checkbox"/> |
| Cathodic Protection | <input type="checkbox"/> | General | <input type="checkbox"/> |
| Water Supply | <input type="checkbox"/> | Contamination | <input type="checkbox"/> |
| Monitoring | <input type="checkbox"/> | Well Destruction | <input checked="" type="checkbox"/> |

B. WATER WELLS, INCLUDING PIEZOMETERS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

PROPOSED WATER SUPPLY WELL USE

| | | | | | |
|-----------|--------------------------|------------|--------------------------|-------|--------------------------|
| Domestic | <input type="checkbox"/> | Industrial | <input type="checkbox"/> | Other | <input type="checkbox"/> |
| Municipal | <input type="checkbox"/> | Irrigation | <input type="checkbox"/> | | |

C. GEOTECHNICAL

Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

D. CATHODIC

Fill hole above anode zone with concrete placed by tremie.

DRILLING METHOD:

Mud Rotary Air Rotary Auger HOLLOW-STEM
Cable Other

DRILLER'S LICENSE NO. C57-710678

WELL PROJECTS

| | | | |
|---------------------|---------------|---------|---------------|
| Drill Hole Diameter | <u>8</u> in. | Maximum | |
| Casing Diameter | <u>2</u> in. | Depth | <u>24</u> ft. |
| Surface Seal Depth | <u>24</u> ft. | Number | <u>1</u> |

GEOTECHNICAL PROJECTS

| | | | |
|-------------------|------------------------------|---------|------------------------------|
| Number of Borings | <input type="checkbox"/> | Maximum | |
| Hole Diameter | <input type="checkbox"/> in. | Depth | <input type="checkbox"/> ft. |

ESTIMATED STARTING DATE 4/25/96
ESTIMATED COMPLETION DATE 4/25/96

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

Approved Wyman Hong Date 24 Apr 96

Wyman Hong

APPLICANT'S SIGNATURE [Signature] Date 4/17/96

ATTACHMENT B
BORING LOG
AND
DEPARTMENT OF WATER RESOURCES FORM 188

GEOLOGIC LEGEND

| | | | | | |
|-----------------------------|--|-------------------------|----|--|---|
| COARSE-GRAINED SOILS | GRAVELS more than 1/2 of coarse fraction > No. 4 Sieve | LITTLE OR NO FINES | | GW | Well-graded gravels, gravel-sand mixtures, little or no fines |
| | | LITTLE OR NO FINES | | GP | Poorly-graded gravels, gravel-sand mixtures |
| | | APPRECIABLE NO FINES | | GM | Silty gravels, gravel-sand-silt mixtures |
| | | APPRECIABLE NO FINES | | GC | Clayey gravels, gravel-sand-clay mixtures |
| | SANDS more than 1/2 of coarse fraction < No. 4 Sieve | LITTLE OR NO FINES | | SW | Well-graded sands, gravelly sands, little or no fines |
| | | LITTLE OR NO FINES | | SP | Poorly-graded sands, gravelly sands, little or no fines |
| | | APPRECIABLE NO FINES | | SM | Silty sands, sand-silt mixtures |
| | | APPRECIABLE NO FINES | | SC | Clayey sands, sand-clay mixtures |
| FINE-GRAINED SOILS | SILTS AND CLAYS Liquid limit < 50 | | ML | Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity | |
| | | | CL | Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays | |
| | | | OL | Organic silts and organic silty clays of low plasticity | |
| | SILTS AND CLAYS Liquid limit > 50 | | MH | Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts | |
| | | | CH | Inorganic clays of high plasticity, fat clays | |
| | | | OH | Organic clays of medium to high plasticity, organic silts | |
| HIGHLY ORGANIC SOILS | | | Pt | Peat and other highly organic soils | |

SYMBOL LEGEND:

- Cement
- Sand
- Bentonite
- Driven Interval of Soil Sample
- Sample preserved for possible analysis
- No sample recovered
- Stabilized water level
- Groundwater level encountered during drilling

LEGEND TO BORING LOGS

BP OIL SERVICE STATION NO. 11105
 3519 CASTRO VALLEY BOULEVARD
 CASTRO VALLEY, CALIFORNIA

PROJECT NO. 10-138





SEE SITE PLAN

ALISTO PROJECT NO: 10-138-03 DATE DRILLED: 07/19/95
 CLIENT: BP Oil Company
 LOCATION: 3519 Castro Valley Boulevard, Castro Valley, CA.
 DRILLING METHOD: Hollow-stem auger (8"); 2" split-spoon sampler
 DRILLING COMPANY: Soils Exploration Svcs. CASING ELEVATION: 176.34 'MSL
 LOGGED BY: C. Ladd APPROVED BY: Al Sevilla

| BLOMS/6 IN. | PTD VALUES | WELL DIAGRAM | DEPTH feet | SAMPLES | GRAPHIC LOG | SOIL CLASS | GEOLOGIC DESCRIPTION |
|-------------|------------|---|------------|---------|-------------|--|--|
| | | | | | | | Planter |
| 9,11,10 | 8.8 | <p>2" Sch. 40 PVC</p> <p>2" 0.010" Slotted PVC Screen</p> <p>#2/12 Lanester Sand</p> <p>Neat Cement</p> <p>Bentonite Seal</p> | | ■ | | CL | silty CLAY: black, damp, very stiff; Fe oxide stain to 3%; rootlets to 5%. |
| 7,8,11 | 8.0 | | | ■ | | ML | clayey SILT: brown, damp, very stiff; Fe oxide stain and root traces. |
| 13,15,18 | 3.29 | | | ■ | | | Same: gray, damp, very stiff; minor fines. |
| 20,24,28 | 3.10 | | | ■ | | | Same: red/brown mottled gray, damp, hard; root traces present; minor fines. |
| 15,21,22 | 5.1 | | | ■ | | | Same: at 9.5 feet. |
| 20,17,23 | 4.8 | | | ■ | | CL | silty CLAY: brown mottled gray, damp, hard. |
| 18,18,23 | 4.4 | | | ■ | | SM ML | silty SAND (lense): red/brown, damp to slightly moist, dense; fine- to medium-grained sand; <1% rootlets. clayey SILT: at 13.5 feet, light brown to brown, damp, hard; rootlets present; minor fines. |
| 12,18,22 | 4.0 | | | ■ | | | Same: at 15.5 feet, mottled light brown and red. |
| 15,15,19 | 4.0 | | | ■ | | | Same: at 17.5 feet. |
| 10,14,12 | 4.1 | | | ■ | | SM SC | silty SAND: red/brown, wet to saturated, medium dense; fine- to medium-grained sand; <1% root traces. clayey SILT: brown, wet, very stiff; root traces 5%. |
| 18,18,20 | 3.5 | | ■ | | | silty CLAY: brown, damp, hard; rootlets to approximately 40%; minor fines. | |
| 18,21,20 | 4.0 | | ■ | | | clayey SILT: brown, damp, hard; some fine- to medium-grained sand. | |
| | | | 25 | | | | Stabilized groundwater measured on July 28, 1995. |
| | | | 30 | | | | |

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED