ExxonMobil Refining & Supply Company
Global Remediation

Gregory K. Barton
Safety, Health & Environment
Global Remediation - US Retail Projects
Project Manager
gregory.k.barton@exxonmobil.com

ExxonMobil
Refining & Supply

January 31, 2005

Ms. Diane Wahl
Ventura County Environmental Health Division
800 South Victoria Avenue, L1730
Ventura, California 93009-1730

Subject: **Well Destruction Letter Report**
Former Exxon Station 74115
105 West Pleasant Valley Road
Oxnard, California
VCEHD File No. C90064

Ms. Wahl:

Enclosed for review is a copy of the letter report documenting the proper destruction of 14 remediation wells and 14 groundwater monitoring wells at the above-referenced site. Exxon Mobil Corporation's consultant, Environmental Resolutions, Inc. (ERI), completed the well destruction work and prepared this report.

Please call the undersigned at (310) 212-2826 for any questions regarding the content of this letter report.

Sincerely,

Gregory K. Barton
Project Manager

Enclosure: **Well Destruction Letter Report, Former Exxon Station 74115, 105 West Pleasant Valley Road, Oxnard, California**, prepared by ERI.

C: w/enclosure:
Mr. Parviz M. Hariri, Pleasant Valley Plaza, LTD
Mr. Burt Calimlim, City of Oxnard
Ms. Barbara Council, Ventura County Water Resources Department

C: w/o enclosure:
Mr. James A. Leist, ERI

ERI

ENVIRONMENTAL RESOLUTIONS, INC.

January 31, 2005

Mr. Greg Barton
Exxon Mobil Corporation
3700 West 190th Street, TPT2-2
Torrance, California 90504

Subject: **Well Destruction Letter Report**
Former Exxon Station 74115
105 West Pleasant Valley Road
Oxnard, California
VCEHD File No. C90064

Mr. Barton:

Enclosed is the letter report documenting the proper destruction of 14 remediation wells and 14 groundwater monitoring wells (28 total) at the above-referenced site. The wells were destroyed after the California Regional Water Quality Control Board approved the closure of the environmental case. The Ventura County Environmental Health Division stated in a letter dated June 15, 2004 that Exxon Mobil Corporation must destroy all groundwater monitoring and remediation wells on site before a final closure of the site can be granted.

For any questions regarding the content of this letter report, please call ERI at (949) 457-8929.

Sincerely,
Environmental Resolutions, Inc.

James A. Leist
Project Manager

Enc: ERI 141514.R09
Transmittal Letter

20372 North Sea Circle, Lake Forest, California 92630-8806 949-457-8950 (FAX 457-8956)

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ERI

ENVIRONMENTAL RESOLUTIONS, INC.

January 31, 2005

Mr. Greg Barton
Exxon Mobil Corporation
3700 West 190th Street, TPT2-2
Torrance, California 90504

Subject: **Well Destruction Letter Report**
Former Exxon Station 74115
105 West Pleasant Valley Road
Oxnard, California
VCEHD File No. C90064

Mr. Barton:

At the request of Exxon Mobil Corporation (ExxonMobil), Environmental Resolutions, Inc. (ERI) has prepared this letter report documenting the proper destruction of 14 remediation wells and 14 groundwater monitoring wells (28 total) at the above-referenced site (Site Location Map, Plate 1). The work was conducted between December 14, 2004, and January 11, 2005. All work was performed under the supervision of a California registered geologist.

The wells were properly destroyed after the California Regional Water Quality Control Board approved the closure of the environmental case. The Ventura County Environmental Health Division, in a letter dated June 15, 2004, stated that ExxonMobil must destroy all groundwater monitoring and remediation wells on site before a final closure of the site can be granted. A copy of this letter is included in Appendix A. In a letter report dated November 24, 2004, ERI documented the proper destruction of two groundwater monitoring and two air sparge/soil vapor extraction (AS/SVE) remediation wells surrounding the underground storage tanks (USTs). Well AS/SVE1 was previously destroyed.

The subject site is located at the northwestern corner of Pleasant Valley Road and Saviers Road in Oxnard, California (Plate 1). The site currently has three USTs, three product dispenser islands and a sales/automotive maintenance building. Two of the three USTs have 8,000-gallon capacities and one

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has a 10,000-gallon capacity; all were used to store unleaded gasoline. The site is currently fenced and closed for business. All relevant site features are depicted on the Generalized Site Plan (Plate 2).

Well destruction at the site was conducted in accordance with the California Department of Water Resources Well Standards Manual, Bulletins 74-81 and 74-90. City of Oxnard permit No. 04-7370 was obtained for well destruction. A copy of the permit is included in Appendix B.

FIELD PROCEDURES

From December 14, 2004 through January 11, 2005, ERI personnel directed the proper destruction of 28 wells. Prior to conducting field activities, ERI contracted Subsurface Surveys of Solana Beach, California, to conduct geophysical clearance activities at each well's location. In order to ensure that no underground utilities were damaged around each well, ERI contracted Gregg Drilling (Gregg) of Signal Hill, California, and Cascade Drilling Inc. of Norwalk, California, to conduct borehole clearance in accordance with ExxonMobil protocol. The boreholes were cleared using air excavation tools to remove the annular space and well construction materials from surface grade to a depth of either 4 feet or 8 feet below ground surface (bgs) depending on whether or not subsurface utilities were identified within 10 feet of the drilling location.

Well Destruction by Overdrilling

ERI contracted Gregg and J & H Drilling (J & H) of Anaheim, California, to perform the well destruction activities. With the exception of groundwater monitoring well MW10, all wells were properly destroyed by overdrilling to their total depth. Well MW10 was properly destroyed by pressure grouting due to the identification of a subsurface utility line within 2 feet of the well. The drill rig was equipped with continuous flight hollow-stem augers of equal or greater size than the original borehole. After the annular space backfill and casings were removed from each well by overdrilling, the borehole was backfilled by pumping Portland Type I/II (neat cement) within the augers to the total depth of the borehole. Each borehole was backfilled with cement from its respective total depth to within approximately 5 feet bgs. The remaining annular space of each borehole was backfilled with hydrated bentonite chips to approximately 2 feet bgs followed by sand to the top of the pavement. The destruction of each well outside of the site boundary was completed to surface grade with hot asphalt patch to match existing pavement conditions and meet local agency requirements. Wells located on site were filled to grade with sand since all site structures – including paving - will be demolished during the UST removal project. The locations of the destroyed wells are shown on Plate 2. Copies of available boring logs, with construction details for the wells, are included in Appendix C.

Well Destruction by Pressure Grouting

As noted, well MW10 was pressure grouted rather than overdrilled. As a result of the geophysical investigation, and later confirmed on city utility maps, it was determined that a storm water line was likely located within 1 to 2 feet of the well. ERI sent a letter to the City of Oxnard dated January 12, 2005 documenting its findings; a copy of the letter is included in Appendix A. The letter also includes both county and city approvals for the change of scope.

Prior to pressure grouting each well, the total depth of the well's casing was measured in order to verify that obstructions were not present. A downhole rod was then used to punch a hole in the end cap at the bottom of the well. The well was destroyed by using a tremie pipe with a sealing packer at its end to maintain pressure while pumping neat cement into the sand filter pack of the well. Pressure grouting was continued until a sufficient amount of neat cement had been pumped to ensure that the sand filter pack was sealed and the well casings filled to within 5 feet of surface grade. After the neat cement had hardened, the borehole was cleared by air excavation tools to 8 feet bgs. The well casing was removed to a depth of 5 feet bgs and the open annular space was backfilled with 6.5 feet of hydrated bentonite chips and 1 foot of sand to approximately 6 inches bgs. The destruction of the well was completed with a hot asphalt patch to surface grade.

Remediation Conveyance Piping Destruction

Destruction of remediation conveyance piping was performed on January 12, 2005. ERI directed J & H to pressure grout three 4-inch and 17 1-inch polyvinyl chloride (PVC) lines which were connected to the former remediation wells. The 17 SVE wells were connected with 2-inch PVC lines and manifolded underground into the three 4-inch lines, which were accessible in the remediation compound. The pressure grouting was accomplished by pumping neat cement through each line one at a time until the cement began to emerge from the opposite end of the line. This ensured that each line was completely filled, and thus destroyed.

Current Well Destruction Status

As of the date of this report, with the exception of one well, all remediation wells and groundwater monitoring wells at the site have been properly destroyed. Groundwater monitoring well MW1 requires well destruction at a later date. Following air excavation activities, on December 23, 2004 J & H attempted to overdrill well MW1. The drill rig reached approximately 7 feet bgs before work was stopped due to safety concerns resulting from large amounts of pea gravel surrounding the well. The amount of pea gravel began undermining the concrete surface in the work area and compromised the safety of the drilling crew (in the event that the weight of the drill rig caused the concrete to fail). The aforementioned

ERI letter dated January 12, 2005 also documents ERI's attempts to properly destroy this well and includes county approvals for the change of scope.

Soil and Water Disposal

Drill cuttings were temporarily stored on site in a roll-off bin and subsequently transported under a non-hazardous waste manifest to TPS Technologies' permitted facility in Adelanto, California, for recycling. Decontamination water was temporarily stored on site in sealed 55-gallon drums and transported under a non-hazardous waste manifest to Crosby and Overton's approved facility in Long Beach, California, for recycling. The available non-hazardous waste manifest for soil generated during well destruction activities is included in Appendix D. The non-hazardous waste manifest for water and a second non-hazardous waste manifest for soil generated during well destruction activities were not available as of the date of this report; they will be sent later under separate cover.

Please call Mr. James A. Leist at (949) 457-8929 for any questions regarding the content of this letter report.

Sincerely,

Environmental Resolutions, Inc.

Aaron Chandler
Staff Scientist

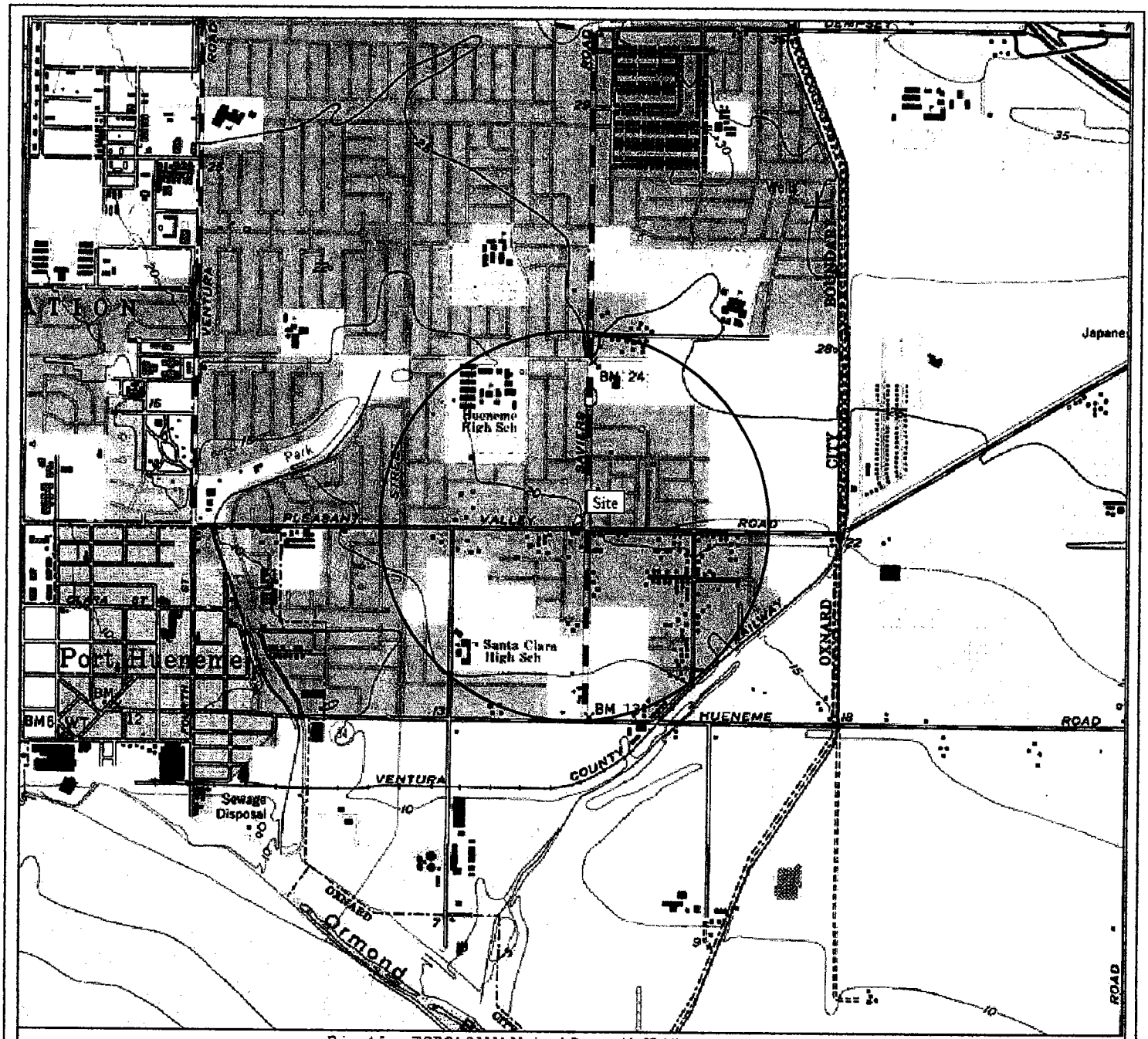
James A. Leist
Project Manager

Steve M. Zigan
R.G. 4333
C. HG. 133

REGISTERED GEOLOGIST
STEVE M. ZIGAN
R.G. 4333
Exp.
STATE OF CALIFORNIA

Enclosures:

Plate 1	Site Location Map
Plate 2	Generalized Site Plan
Appendix A	Correspondence
Appendix B	Well Destruction Permit
Appendix C	Boring Logs
Appendix D	Manifest



FN 1415TOPO

Map Name: Oxnard, CA
Version: 1967

EXPLANATION

1/2-mile radius circle

N

APPROXIMATE SCALE

0 0.5 1 mile

SOURCE:
Modified from a map provided by National Geographic's TOPO!

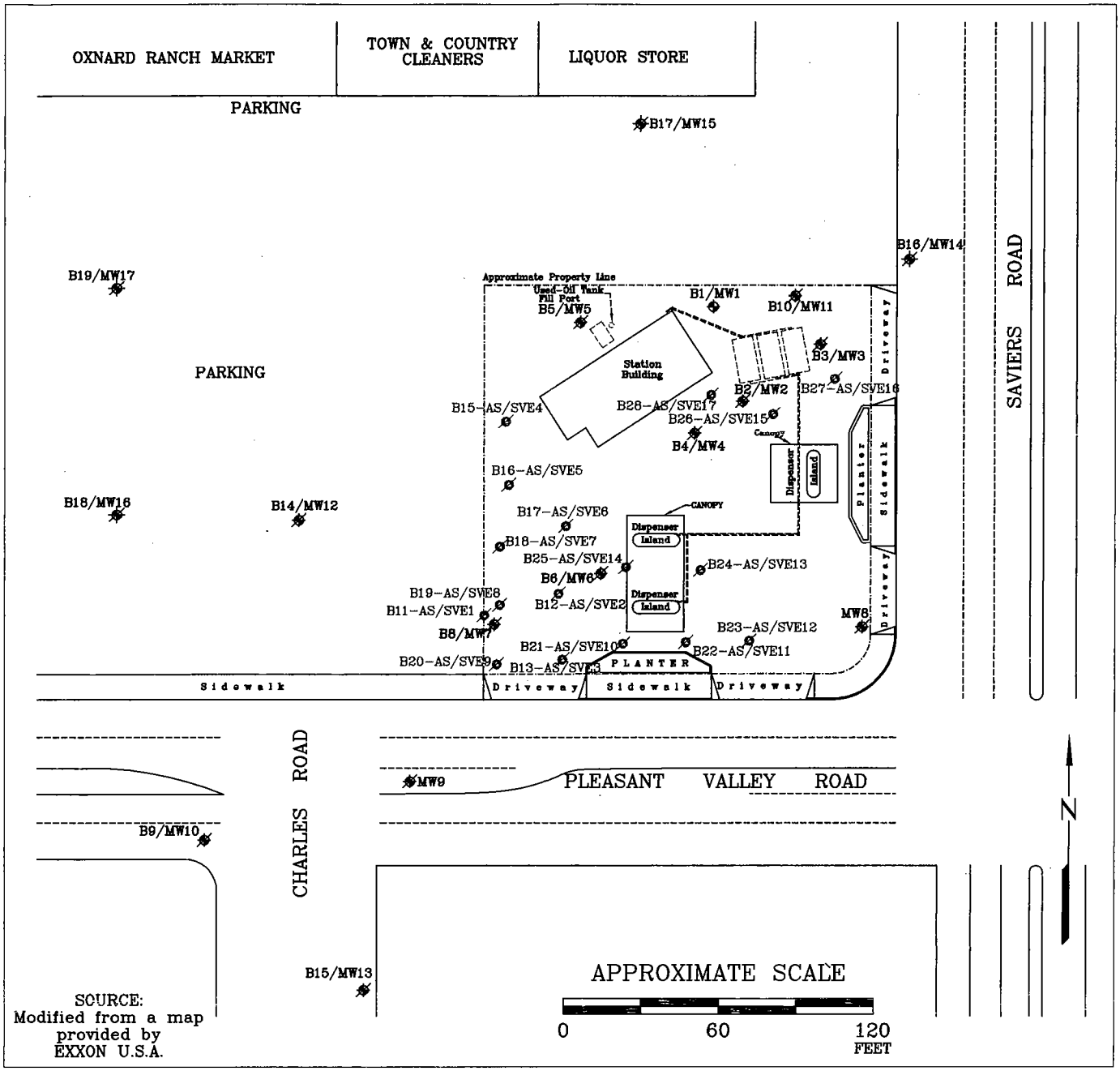
ERI ENVIRONMENTAL RESOLUTIONS, INC

SITE LOCATION MAP

FORMER EXXON STATION 74115
105 West Pleasant Valley Road
Oxnard, California

PROJECT NO. 1415

PLATE 1



FN 14150005

EXPLANATION

B1/MW1	Groundwater monitoring well
B19/MW17	Destroyed groundwater monitoring well
B28-AS/SVE17	Destroyed air sparging/soil vapor extraction well
----------	Product line piping
[ ]	Underground storage tanks

ERI ENVIRONMENTAL RESOLUTIONS, INC.

GENERALIZED SITE PLAN

FORMER EXXON STATION 74115
105 West Pleasant Valley Road
Oxnard, California

PROJECT NO. 1415

PLATE 2

DATE: 11/10/04

APPENDIX A

CORRESPONDENCE

RESOURCE MANAGEMENT AGENCY

RECEIVED JUN 21 2004

1415

county of ventura

Environmental Health Division
Robert Gallagher
Director

June 15, 2004

File #C90064

Mr. Greg Barton
ExxonMobil Oil Corporation
Building TPT2-2
3700 West 190th Street
Torrance, CA 90509-2929

NOTICE TO ABANDON MONITORING AND REMEDIATION WELLS, FORMER EXXON STATION #7-4115, 105 PLEASANT VALLEY ROAD, OXNARD, CALIFORNIA

The Ventura County Environmental Health Division (EHD) staff received case closure concurrence from the Los Angeles Regional Water Quality Control Board. Before final closure can be granted, EHD requires the following:

1. All existing monitoring and remediation wells must be properly abandoned in accordance with the standards set forth in California Department of Water Resources Bulletins 74-81 and 74-91. It is your responsibility to obtain all required permits from the applicable city and/or county agencies.

2. All former treatment system conveyance lines must be properly abandoned.

3. The work must be performed under the oversight of a California Registered Geologist or Professional Engineer.

4. A report documenting completion of the well and conveyance line abandonment activities must be submitted to EHD. Upon receipt of the technical report, EHD will issue a certificate of remedial action completion to document regulatory closure of this case. Submit the report by August 20, 2004.

800 South Victoria Avenue, Ventura, CA 93009-1730 (805) 654-2813 FAX (805) 654-2480
Internet Web Site Address: www.ventura.org/envhealth

If you have any questions, please contact me at 805/654-5040.

DIANE B. WAHL
LUFT PROGRAM
ENVIRONMENTAL HEALTH DIVISION

c: Robert Kroeger, ERI
Kevin Graves, SWRCB
Parviz M. Hariri, Pleasant Valley Plaza, LTD

ERI

ENVIRONMENTAL RESOLUTIONS, INC.

January 12, 2005

Mr. Burt Calimlim
City of Oxnard – Development Services
First Floor, East Wing
305 W. Third Street
Oxnard, CA 93030

Subject: **Change of Well Destruction Procedure Documentation**
Former Exxon Station 74115
105 W. Pleasant Valley Road
Oxnard, California
Permit 04-7370

Mr. Calimlim:

On behalf of Exxon Mobil Corporation (ExxonMobil), Environmental Resolutions, Inc. (ERI) is documenting an approved change of procedure for destruction of two groundwater wells originally permitted for destruction by overdrilling. Monitoring well MW10 is located on the eastbound side of Pleasant Valley Road, and MW1 is located onsite north of the existing underground storage tanks. This letter will include correspondence submitted, emailed approvals, and will summarize conversations between the City of Oxnard and ERI.

Well Destruction of Well MW10

On January 4, 2005 ERI faxed a summary of the findings of the geophysical investigation and from a visit to the city to verify the locations of subsurface utilities which may be near the proposed groundwater well location. The geophysical investigation identified the limits of a change of backfill materials in the vicinity well MW10, and the location of a suspected utility line approximately 2 feet below ground surface (bgs). In addition, during ERI's December 22, 2004 visit to the city offices, a stormwater line was identified in proximity to the well location. The photo attached shows the results of the geophysical investigation, and includes a copy of a map indicating the location of the stormwater line.

A subsequent phone discussion between ERI and the City of Oxnard (January 4, 2005) resulted in the approval of ERI's proposal to pressure-grout the well for destruction, and the removal of the upper 5 feet

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of the well casing (and other well construction materials). The pressure-grouting was proposed as an alternative to the permitted overdrilling procedure to reduce the change of damaging subsurface utilities. The City of Oxnard stated that as long as the pressure is applied slowly during the pressure-grouting procedure, the proposed alternative well destruction procedure was approved.

Well Destruction of Well MW1

On January 5, 2005 ERI faxed a summary of the attempt to overdrill groundwater monitoring well MW1. During ExxonMobil's predrilling protocol for well destruction activities using an airvac rig, large amounts of pea gravel were encountered during the borehole clearance of well MW1. This well is located approximately 8 feet from the USTs vent lines, and 15 feet from the USTs, but it became obvious that the pea gravel was placed around the well sometime after the well was installed (due to the lack of well construction materials, and the placement of pea gravel).

On December 22, 2004, ERI pulled the well casing prior to overdrilling, and cleared the borehole using the airvac equipment to a depth of about 6 feet bgs. The presence of the pea gravel resulted in undermining the concrete pad slightly near the work area. Overdrilling the well was initiated, and continued to about 8 feet bgs. However, due to pea gravel continuing to undermine the concrete pad and not being able to support the drill rig stabilizers, the work was stopped for safety reasons.

ExxonMobil and ERI proposed to complete the well destruction following the tank removal (and the removal of the pea gravel). Following backfill of the tank and vent line excavations, a licensed surveyor will be used to identify the location of the well. Once the location is determined, it was proposed that 12-inch augers would be used to remove the well construction materials that were originally installed with 10-inch augers.

On January 6, 2005, ERI discussed with the City of Oxnard the proposed method for destroying MW1 following tank removal activities. You stated that we could submit the request in writing, and to cc George Roberts.

County Approvals for Well Destruction

On December 22, 2004 and on January 5, 2005, ERI emailed the County of Ventura Environmental Health Division (VCEDH) and the Ventura County Water Resources Department (VCWRD) to inform of the conditions and obtain approval for the change in destruction procedure for wells MW1 and MW10. Approvals for the proposed work scopes (discussed above) were received on December 23 and 27, 2004 for well MW10, and on January 5, 2005 for well MW1. The email correspondences are attached.

If you have any questions, please contact me at (949) 457-8929.

Sincerely,

Environmental Resolutions, Inc.

James A. Leist

Project Manager

Attached: Photograph of the results of the MW10 geophysical investigation

City of Oxnard Storm Water Line Location Map

Burt Calimlim faxed correspondences dated January 4, 2005 and January 5, 2005

Email Correspondences dated December 22, 2004 and January 5, 2005

C: Ms. Diane Wahl, VCEHD

Ms. Barbara Council, VCWRD

Mr. George Roberts, City of Oxnard

Mr. Gregory K. Barton, ExxonMobil Refining & Supply Company

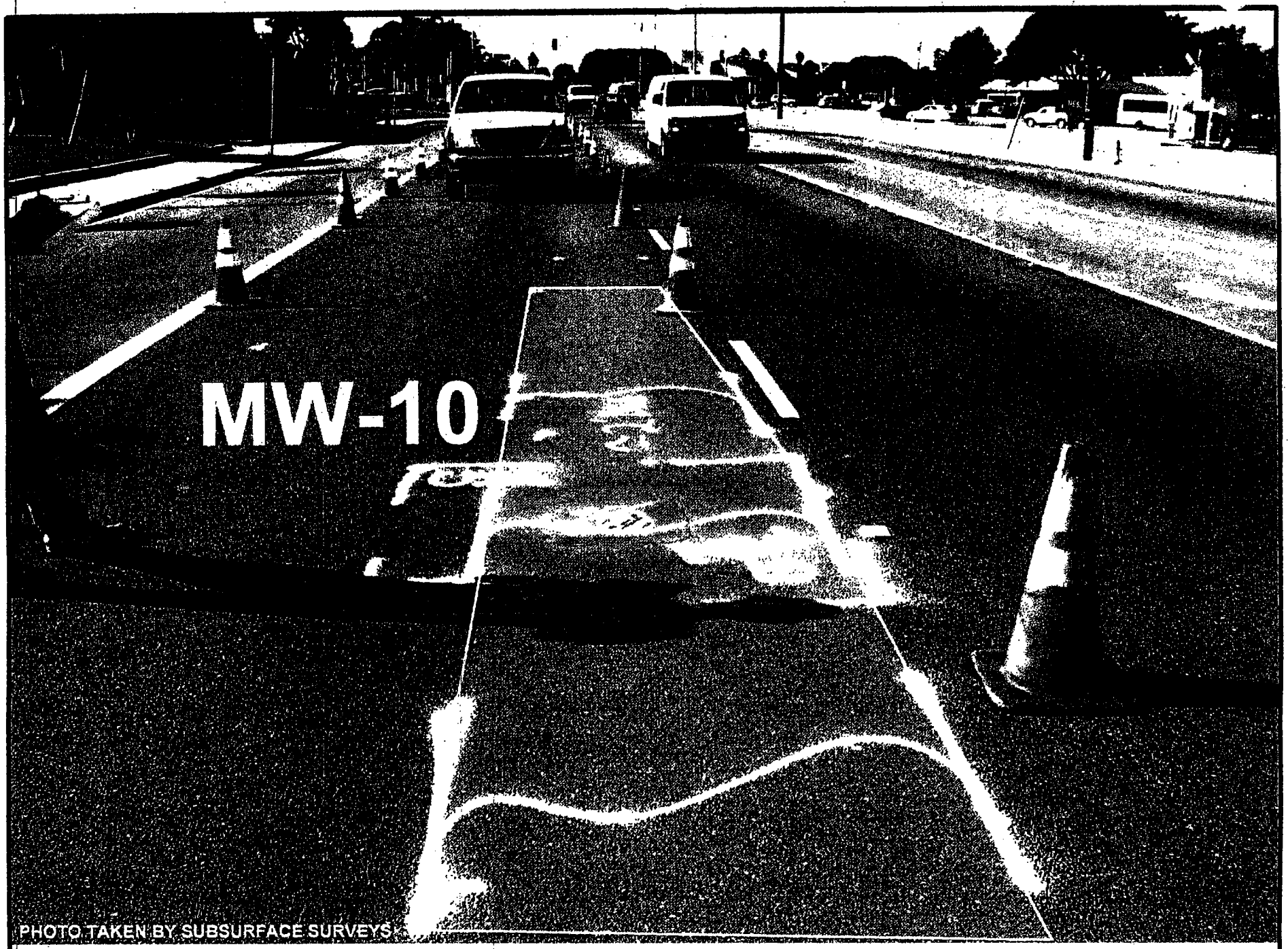
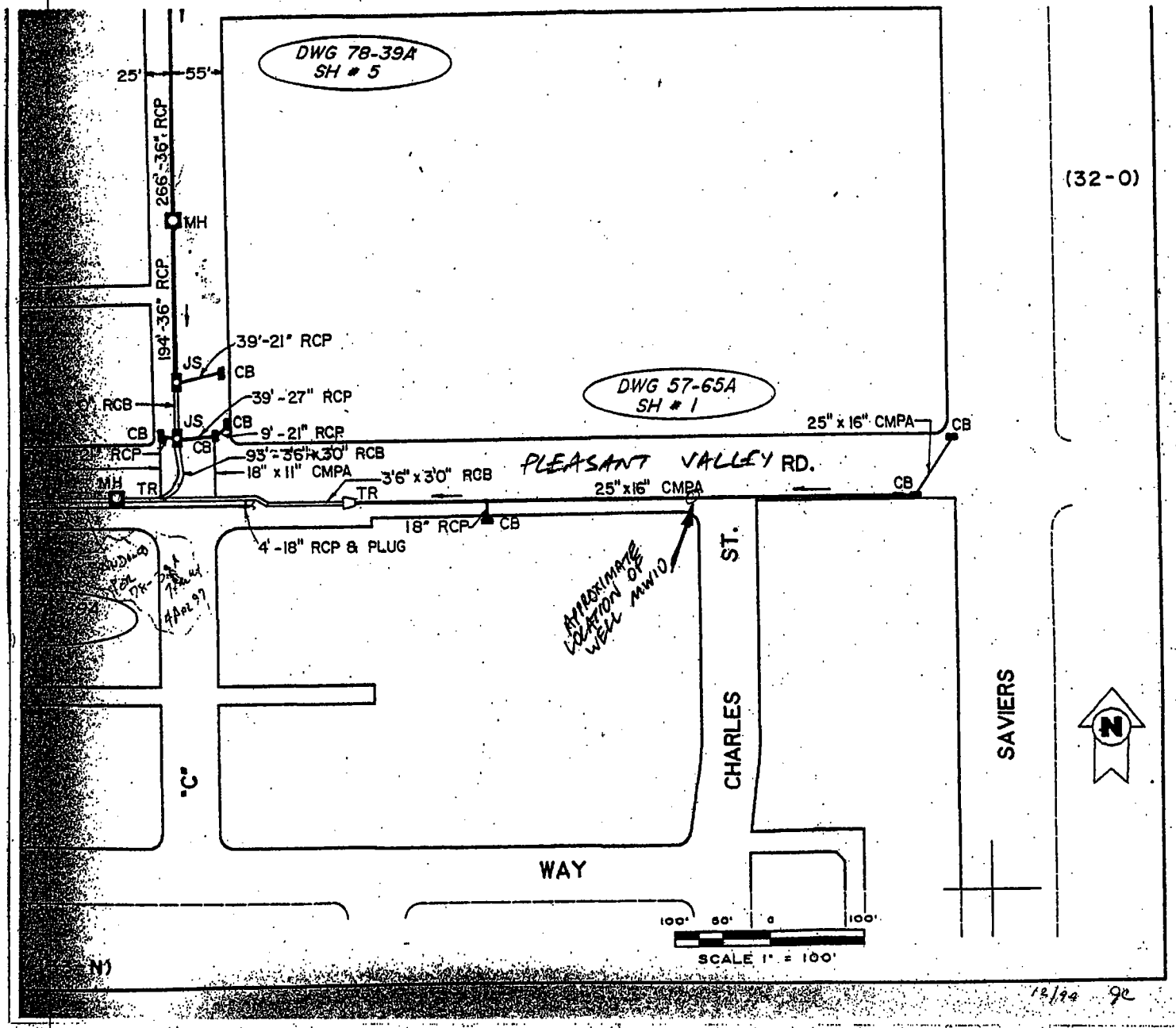


Figure 31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SH # 5
DWG 57-65A
SH # 1
25'
55'
266'-36" RCP
194'-36" RCP
MH
39'-21" RCP
JS
CB
39'-27" RCP
9'-21" RCP
93'-36"x30" RCB
18" x 11" CMPA
3'6" x 3'0" RCB
TR
4'-18" RCP & PLUG
18" RCP
25" x 16" CMPA
PLEASANT VALLEY RD.
(32-0)
APPROXIMATE LOCATION OF WELL MW10
CHARLES ST.
SAVIERS
"C" WAY
N
100' 50' 0 100'
SCALE 1" = 100'
12/94 gc

ERI

ENVIRONMENTAL RESOLUTIONS, INC.

FACSIMILE TRANSMITTAL SHEET

TO: Burt Calimlim	FROM: Jim Leist
COMPANY: City of Oxnard	DATE: 1/4/2005
FAX NUMBER: (805) 385-8329	TOTAL NO. OF PAGES INCLUDING COVER: 4
PHONE NUMBER:	SENDER'S PHONE NUMBER: 949.457.8929
Hard copy will not be mailed	SENDER'S FAX NUMBER: 949.457.8956

☐ URGENT ☐ FOR REVIEW ☐ PLEASE COMMENT ☐ PLEASE REPLY ☐ PLEASE RECYCLE

Re: Well Destruction at Former Exxon 74115, 105 W. Pleasant Valley Road, Oxnard **Permit 04-7370**

Burt,
We are in the process of performing well destruction by overdrilling at the subject site. We conducted a geophysical investigation prior to initiating the drilling. The results of the investigation revealed what appeared to be a trench consisting of a change of backfill materials, and the possibility of a utility line within the immediate area of well MW10 (see attached photo). The white areas are what the geophysical technician identified during the investigation, and closer inspection of the photo will reveal that well MW10 is located in the middle of this area.

I visited the city a few weeks ago, to research subsurface utilities in the areas of our street wells. The attached map shows that a storm drain line is located very close to well MW10. The VCEHD and Ventura County Water Resources Department (VCWRD) typically require overdrilling for well destruction; I have already obtained approval that the VCEHD and VCWRD will allow pressure-grouting this well in the event that the utility is located so close that overdrilling would be a risk to damaging the utility. Please note that Dig Alert notification does not include marking of unpressurized subsurface utilities.

I field verified the storm drain lines as best as I could. I verified the 18" RCP/CB which I believe is one of those curb catchbasins. In addition, an unmarked utility vault was located perpendicular from this catch basin and in alignment with well MW10.

Normal ExxonMobil borehole clearance procedure requires that we utilize air knife/high vacuum soil removal prior to overdrilling and to remove the upper 5 feet of wells that will be pressure-grouted. Due to the proximity to the identified utility, ExxonMobil and ERI are requesting that the VCEHD and the VCWRD approve pressure-grouting this well rather than overdrilling. The well is

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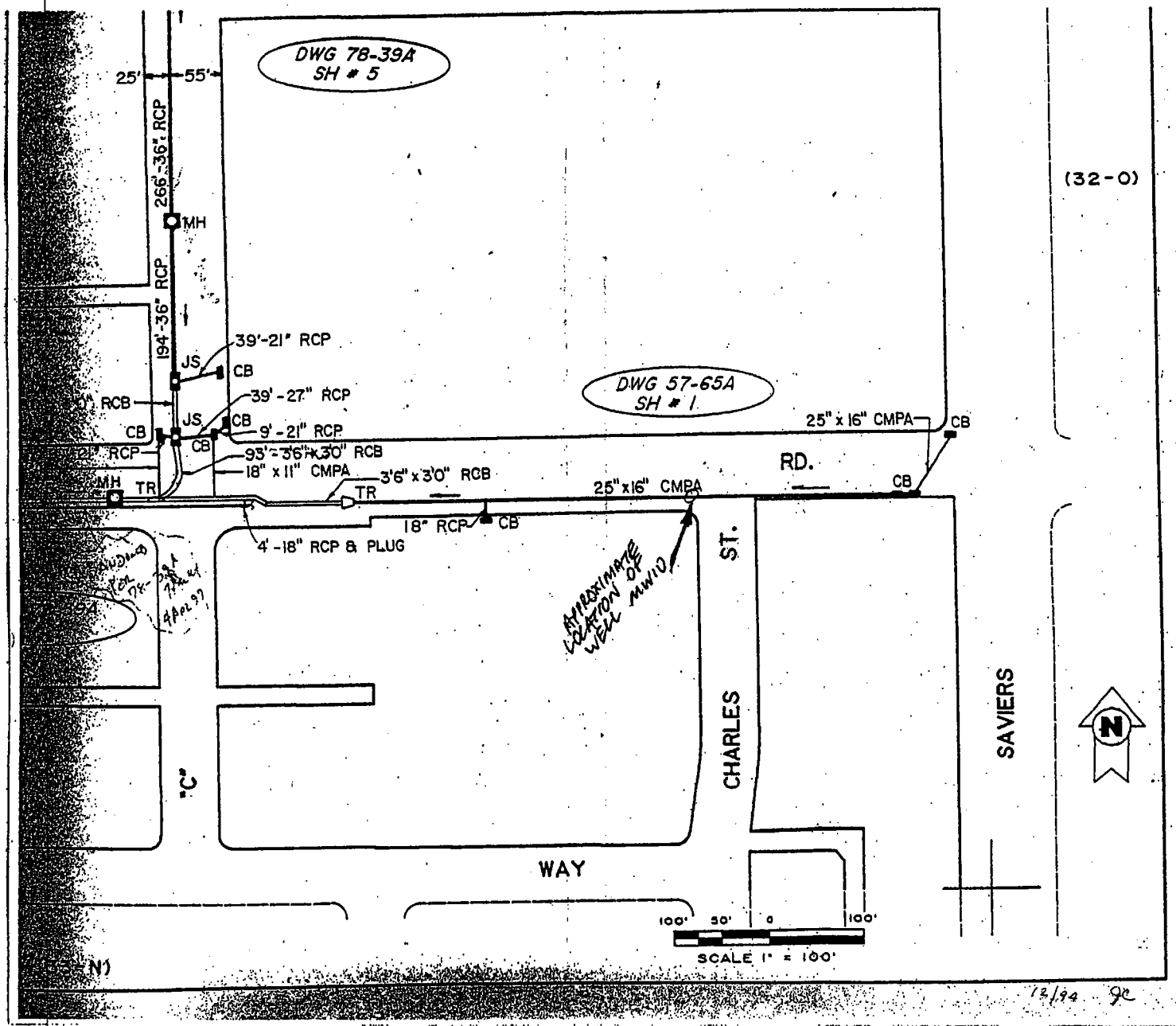
25 feet deep, and the upper 5 feet of all well construction materials (i.e., sand, bentonite, and casing) will be removed during the process.

Please approve this request.

Upon approval, we are expecting to do the pressuregrouting work on Wednesday, January 5 – assuming it doesn't rain. Thanks, Jim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SH # 5
DWG 57-65A
SH # 1
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JS
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39'-27" RCP
9'-21" RCP
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18" x 11" CMPA
3'6" x 3'0" RCB
TR
4'-18" RCP & PLUG
18" RCP
25" x 16" CMPA
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12/94

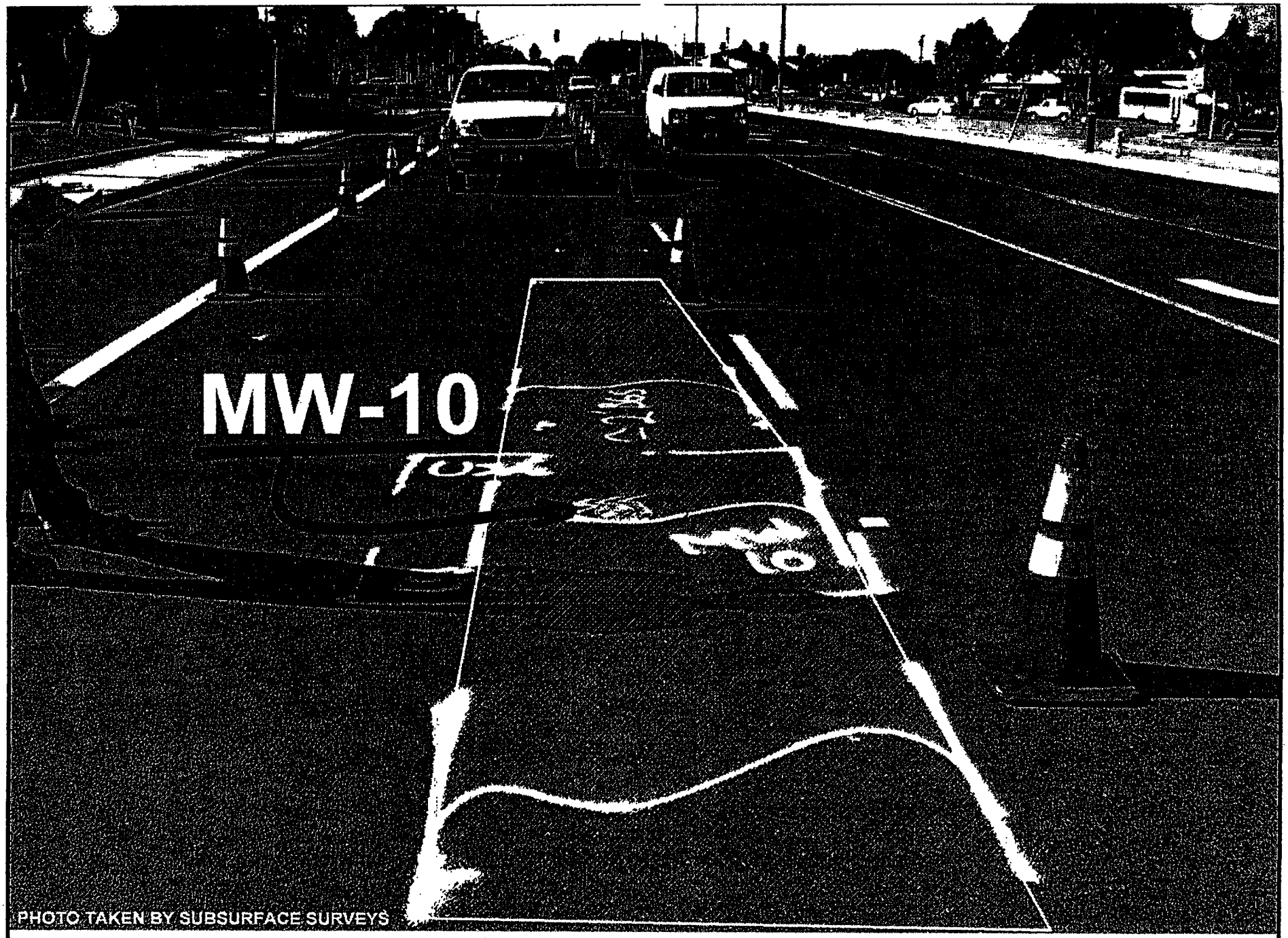

Figure 31

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*** TX REPORT ***
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PGS. SENT	4
RESULT	OK

ERI

ENVIRONMENTAL RESOLUTIONS, INC.

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Jim Leist

From: Barbara Council [Barbara.Council@mail.co.ventura.ca.us]

Sent: Thursday, December 23, 2004 7:49 AM

To: Jim Leist

Subject: Re: Request for Pressure-Grout Well Destruction

Jim, if this was a County of Ventura well drilling permit, I would approve pressure grouting. We do in some instances. This is a City of Oxnard permit though, so you need to contact them.

>>> "Jim Leist" <jleist@ERI-US.com> 12/22/04 03:40PM >>>
Diane and Barbara,
We are in the process of performing well destruction by overdrilling at the former Exxon station 74115, 105 W. Pleasant Valley Road, Oxnard (VCEHD C90064; City of Oxnard permit number 04-7370). We conducted a geophysical investigation prior to initiating the drilling. The results of the investigation revealed what appeared to be a trench consisting of a change of backfill materials, and the possibility of a utility line within the immediate area of well MW10 (see attached photo). The white areas are what the geophysical technician identified during the investigation, and closer inspection of the photo will reveal that well MW10 is located in the middle of this area.

I visited the city today to research subsurface utilities in the areas of our street wells. The attached pdf shows that a storm drain line is located very close to well MW10. The VCEHD and Ventura County Water Resources Department (VCWRD) typically require overdrilling for well destruction, but I am requesting that both the VCEHD and the VCWRD approve pressure-grouting this well in the event that the utility is located so close that overdrilling would be a risk to damaging the utility. Please note that Dig Alert notification does not include marking of unpressurized subsurface utilities.

Today, after my city visit, I field verified the storm drain lines as best as I could. I verified the 18" RCP/CB which I believe is one of those curb catchbasins. In addition, an unmarked utility vault was located perpendicular from this catch basin and in alignment with well MW10.

Normal ExxonMobil borehole clearance procedure requires that we utilize air knife/high vacuum soil removal prior to overdrilling and to remove the upper 5 feet of wells that will be pressure-grouted. Due to the proximity to the identified utility, ExxonMobil and ERI are requesting that the VCEHD and the VCWRD approve pressure-grouting this well rather than overdrilling. The well is 25 feet deep, and the upper 5 feet of all well construction materials (i.e., sand, bentonite, and casing) will be removed during the process.

Please approve this request by response to this email. I will be out of the office Thursday, and all of next week, but would be happy to discuss further upon my return. You may try me on the cell phone at 949 355 4472 at any time if you wish. Thanks, Jim

James A. Leist

Project Manager

Environmental Resolutions, Inc.

20372 North Sea Circle

Lake Forest, CA 92630

Phone: (949) 457-8929

Fax: (949) 457-8956

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Jim Leist

From: Diane Wahl [Diane.Wahl@mail.co.ventura.ca.us]
Sent: Monday, December 27, 2004 8:24 AM
To: Barbara Council
Cc: Jim Leist
Subject: Fwd: Request for Pressure-Grout Well Destruction-105 Pleasant Valley Road

Request for
'ressure-Grout Wel..

Barbara-

Regarding the request for pressure grouting one well in lieu of overdrilling at the referenced site.

VCEHD LUFT does not have any issue regarding the proposed alternative well destruction as long as it is compliance with VCPWA requirements.

Your approval is sufficent for the LUFT Program.

Please advise of your position regarding this request.

- - - - - -
Diane Wahl
VCEHD LUFT Program
805-654-5040

Jim Leist

From: Jim Leist
Sent: Wednesday, January 05, 2005 3:37 PM
To: 'Diane Wahl'
Subject: RE: Well Destruction Approval - Former Exxon 74115, 105 W. Pleasant Valley Road, Oxnard (VCEHD Case numb

Yes the surveying was that accurate. In addition, we will place a metal stake in the borehole to assist in the identification of the borehole prior to well destruction, and triangulate the measurements against site features as an extra precaution. Thanks, Jim

James A. Leist
Project Manager
Environmental Resolutions, Inc.
20372 North Sea Circle
Lake Forest, CA 92630
Phone: (949) 457-8929
Fax: (949) 457-8956

This document may contain information which is confidential and exempt from disclosure under applicable law. If you are not the intended recipient, you are on notice that any unauthorized disclosure, distribution, copying, or taking of any action in reliance on the contents of this document is prohibited.

-----Original Message-----
From: Diane Wahl [mailto:Diane.Wahl@mail.co.ventura.ca.us]
Sent: Wednesday, January 05, 2005 3:33 PM
To: Jim Leist
Cc: Barbara Council
Subject: Re: Well Destruction Approval - Former Exxon 74115, 105 W. Pleasant Valley Road, Oxnard (VCEHD Case numb

Jim-

Was the original survey to the accuraccy that the well will be located to within the inch? If so, then your proposal appears reasonable and I accept it.

- - - - - -
Diane Wahl
VCEHD LUFT Program
805-654-5040

>>> "Jim Leist" <jleist@ERI-US.com> 1/5/2005 3:06:52 PM >>>
Diane and Barbara,

I am working with the City of Oxnard to obtain approval for a change to the overdrilling activities that were approved in the permit.
However,
I want to obtain approval for this work from the county as well. You might remember that several weeks ago ExxonMobil/ERI obtained approval for the pressuregrouting of a well in the street which was found to be in proximity to a stormwater line (identified during a geophysical investigation and on city maps).

During ExxonMobil's predrilling protocol for well destruction activities using an airvac rig, large amounts of peagravel were encountered during the borehole clearance of well MW1. This well is located approximately

8 feet from the USTs vent lines, and 15 feet from the USTs. It is odd that peagravel is encountered so close to this well, and it was pretty obvious that the peagravel was placed around the well sometime after the well was installed.

We pulled the well casing prior to overdrilling, and cleared the borehole using the airvac equipment to a depth of about 6 feet bgs.
The
whole time the peagravel kept coming in, and slightly undermining the concrete around our work area. We set up the drill on the well and overdrilled to about 8 feet bgs, with the hopes that the peagravel would be shortlived. However, we had to stop because the peagravel was beginning to undermine the drill rig stabilizers.

We still need to finish this well destruction. Pressuregrouting is out of the question because there is no longer a well casing to hook up to.
ExxonMobil and ERI are proposing to complete the well destruction following the tank removal (and the removal of the peagravel). Since the well is 30 feet deep, removal by excavation is not possible.
Following backfill of the tank and vent line excavations, a licensed surveyor will be used to identify the location of the well. Once the location is determined, we will use 12-inch augers to remove the well construction materials that were originally installed with 10-inch augers. According to the contractor, the UST removal will commence the middle of February (weather permitting).

Please approve this change of procedure due to unique conditions that were not known at the time of permitting. If you have any questions,
please call.

James A. Leist

Project Manager

Environmental Resolutions, Inc.

20372 North Sea Circle

Lake Forest, CA 92630

Phone: (949) 457-8929

Fax: (949) 457-8956

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Jim Leist

From: Jim Leist
Sent: Wednesday, January 05, 2005 3:15 PM
To: 'Barbara Council'
Subject: RE: Well Destruction Approval - Former Exxon 74115, 105 W. Pleasant Valley Road, Oxnard (VCEHD Case numb

Thanks. The surveyor assures me that the well can be located within several inches.

James A. Leist

Project Manager

Environmental Resolutions, Inc.

20372 North Sea Circle

Lake Forest, CA 92630

Phone: (949) 457-8929

Fax: (949) 457-8956

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From: Barbara Council [mailto:Barbara.Council@mail.co.ventura.ca.us]
Sent: Wednesday, January 05, 2005 3:11 PM
To: Jim Leist
Subject: Re: Well Destruction Approval - Former Exxon 74115, 105 W. Pleasant Valley Road, Oxnard (VCEHD Case numb

That sounds fine as long as you are confident you can locate the well after the backfilling is completed. Glad I'm not doing this well destruction.

>>> "Jim Leist" <jleist@ERI-US.com> 01/05/05 03:06PM >>>

Diane and Barbara,

I am working with the City of Oxnard to obtain approval for a change to the overdrilling activities that were approved in the permit. However, I want to obtain approval for this work from the county as well. You might remember that several weeks ago ExxonMobil/ERI obtained approval for the pressuregrouting of a well in the

street which was found to be in proximity to a stormwater line (identified during a geophysical investigation and on city maps).

During ExxonMobil's predrilling protocol for well destruction activities using an airvac rig, large amounts of peagravel were encountered during the borehole clearance of well MW1. This well is located approximately 8 feet from the USTs vent lines, and 15 feet from the USTs. It is odd that peagravel is encountered so close to this well, and it was pretty obvious that the peagravel was placed around the well sometime after the well was installed.

We pulled the well casing prior to overdrilling, and cleared the borehole using the airvac equipment to a depth of about 6 feet bgs. The whole time the peagravel kept coming in, and slightly undermining the concrete around our work area. We set up the drill on the well and overdrilled to about 8 feet bgs, with the hopes that the peagravel would be shortlived. However, we had to stop because the peagravel was beginning to undermine the drill rig stabilizers.

We still need to finish this well destruction. Pressuregrouting is out of the question because there is no longer a well casing to hook up to. ExxonMobil and ERI are proposing to complete the well destruction following the tank removal (and the removal of the peagravel). Since the well is 30 feet deep, removal by excavation is not possible. Following backfill of the tank and vent line excavations, a licensed surveyor will be used to identify the location of the well. Once the location is determined, we will use 12-inch augers to remove the well construction materials that were originally installed with 10-inch augers. According to the contractor, the UST removal will commence the middle of February (weather permitting).

Please approve this change of procedure due to unique conditions that were not known at the time of permitting. If you have any questions, please call.

James A. Leist

Project Manager

Environmental Resolutions, Inc.

20372 North Sea Circle

Lake Forest, CA 92630

Phone: (949) 457-8929

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APPENDIX B

WELL DESTRUCTION PERMIT

City of Oxnard

PERMIT CENTER

PERMIT

305 W. Third St., Oxnard, CA 93030-5790

FOR INSPECTIONS CALL (805) 385-7936 — 24 HOUR ADVANCE NOTICE

Application Number . . . . . 04-00007370 Date 12/02/04
Property Address . . . . . 105 W PLEASANT VALLEY RD
PARCEL NUMBER . . 205-0-141-325
Tenant nbr, name . . . . . REMOVE 4 MONIT. & 2 VAP.E
Application type description PW - WELL APPLICATION

Owner	Contractor
PLEASANT VALLEY PLAZA LTD	CASCADE DRILLING, INC
9312 CIVIC CENTER DR #105	11250 E FIRESTONE BL
BEVERLY HILLS CA 90210	NORWALK CA 90650
	(562) 929-8176

Work Description Information

ENCROACHMENT 1

Permit . . . . . PW - MONITOR WELL DESTRUCT ON
Additional desc . .
Phone Access Code . 921221
Permit Fee . . . . .00 Plan Check Fee . . .00
Issue Date . . . . 12/02/04 Valuation 0
Expiration Date . . 1/01/05

Permit . . . . . PW - WELL DESTRUCTION PERMIT
Additional desc . .
Phone Access Code . 921211
Permit Fee . . . . .00 Plan Check Fee . . .00
Issue Date . . . . 12/02/04 Valuation 0
Expiration Date . . 1/01/05

Special Notes and Comments

THIS PERMIT IS ISSUED IN ACCORDANCE WITH AND SUBJECT TO THE CALIF. VEHICLE CODE SECTION 35780, 35782, THE CITY CODE, AND THE ATTACHED CONDITIONS.

THE UNDERSIGNED CONTRACTOR HEREBY AGREES TO DO THE WORK AS HEREIN DESIGNATED AND AS INDICATED ON THE ATTACHED DRAWINGS:
DRAWING NO. _____

IN CONSIDERATION OF THE GRANT OF THIS PERMIT, THE PERMITTEE AGREES TO SAVE HARMLESS THE CITY OF OXNARD, ITS OFFICERS AND EMPLOYEES FROM ANY LOSS, COST OF EXPENSE ARISING OUT OF THE PERFORMANCE OF THE WORK UNDER THIS PERMIT. PERMITTEE AGREES TO NOTIFY THE CITY OF OXNARD AT LEASE __HRS. IN ADVANCE OF CONSTRUCTION.

CONTRACTOR_____

PERMIT FOR EXCAVATION OR CONSTRUCTION WITHIN 300 FT. OF A SIGNALIZED INTERSECTION SHALL BE REVIEWED BY THE TRAFFIC ENGINEER.
TRAFFIC ENGINEER_____

PURPOSE: ABANDON ~~2~~ 15 MONITORING WELL AND ~~2~~ 15 ~~BORE HOLES ONSITE.~~ ASSUE WELLS.

Other Fees . . . . . DS* ENCRMT PERMIT FEE 41.00
DS* INSPECTOR'S REG OR OT 1050.00

Fee summary	Charged	Paid	Credited	Due
Permit Fee Total	.00	.00	.00	.00
Plan Check Total	.00	.00	.00	.00
Other Fee Total	1091.00	1091.00	.00	.00

NOTICE *(Please check appropriate box in each paragraph)*

☐ 1(a) I certify that I am licensed under the State Contractor's License Law and my contractor's license is in full force and effect; or

Work Description Information

ENCROACHMENT 1

Permit . . . . . PW - MONITOR WELL DESTRUCT ON
Additional desc . .
Phone Access Code . 921221
Permit Fee . . . . .00 Plan Check Fee . . .00
Issue Date . . . . 12/02/04 Valuation 0
Expiration Date . . 1/01/05

Permit . . . . . PW - WELL DESTRUCTION PERMIT
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Special Notes and Comments
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CONTRACTOR_____
PERMIT FOR EXCAVATION OR CONSTRUCTION WITHIN 300 FT. OF A SIGNALIZED INTERSECTION SHALL BE REVIEWED BY THE TRAFFIC ENGINEER.
TRAFFIC ENGINEER_____

PURPOSE: ABANDON ~~2~~ 15 MONITORING WELL AND ~~2~~ 15 ~~BORE HOLES ONSITE.~~ ASSUE WELLS,

Other Fees . . . . . DS* ENCRMT PERMIT FEE 41.00
DS* INSPECTOR'S REG OR OT 1050.00

Fee summary	Charged	Paid	Credited	Due
Permit Fee Total	.00	.00	.00	.00
Plan Check Total	.00	.00	.00	.00
Other Fee Total	1091.00	1091.00	.00	.00

NOTICE ***(Please check appropriate box in each paragraph)***

☐ 1(a) I certify that I am licensed under the State Contractor's License Law and my contractor's license is in full force and effect; or
☐ 1(b) I certify that I am exempt from Business and Professions Code # 7031.5 under: ☐ #7044 — Owner/builder, ☐ #7048 — Price of labor and materials less than $300.

AND

☐ 2(a) I certify that I have workers' compensation insurance.
Insurer _____ Policy # _____, or a Certificate of Consent to self-insure by the Director of Industrial Relations; or

☐ 2(b) I certify that I am exempt under Labor Code #3800 because: ☐ the permit is for work of $100 or less, or ☐ that in the performance of the work for which the permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California.

AND

☐ 3 Lender's Name _____ Address _____

I certify that I have read this application and declare under penalty of perjury that the information contained herein is true, correct and complete. I agree to comply with all city and county ordinances and state laws relating to building construction, and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes. I am the owner of the structure listed on this permit or I represent the owner and am acting with the owner's full knowledge and consent.

Executed at City of Oxnard 12-2-04 Date _____ Stephen Day / ERI
Owner/Contractor Authorized Signature

PROJECT COMPLETED, DATE: **INSPECTOR:**

THIS PERMIT BECOMES NULL AND VOID if work or construction authorized is not commenced within 180 days from date of issuance, or work is suspended or abandoned for a period of 180 days any time after work is commenced.

CITY OF OXNARD

WELL PERMIT APPLICATION

305 WEST THIRD STREET, OXNARD, CA. 93030

PERMIT NO. 04-7370

NAME OF WELL OWNER	OWNER MAILING ADDRESS (STREET, CITY, ZIP)	
Exxon Mobil Corporation	3700 W. 190th Street, TPI #2-7 Torrance, CA 90509	
OWNER TELEPHONE NUMBER	**NAME OF WELL DRILLER**	**LICENSE NUMBER**
(310) 212-3727	Cascade Drilling	C-57/717510

I hereby agree to comply with all regulations pertaining to well construction, repair, modification and destruction. Within 30 days of completion of work, I will furnish the City of Oxnard Development Services Department with a complete and accurate log of the well. Any modification of this permit requires approval by the City Engineer. Call (805) 385-7925.

Applicant's Signature [signature] Date 12-2-04

☐ Owner ☐ Driller ☒ Consultant (Firm & Phone No.) Environmental Resolutions, Inc. (949) 457-8950

Estimated Dates of Work: Start 12-8 Completion 12-25 Fax (949) 457-8956

TYPE OF WORK (CHECK)	USE (CHECK)	EQUIPMENT (CHECK)	WELL DEPTH	PROPOSED CASING
Water Supply Well ☐		Air Rotary ☐	ASSUME-20	Steel ☐
Repair or Modification ☐	Public ☐ Domestic ☐	Mud Rotary ☐	MW-30' Feet	PVC ☐
Destruction ☒	Agricultural ☐	Hollow Stem ☒	DIAMETER WELLBORE	Other ☐
Monitoring (No.) ☒	LUFT Invest/Clean-up ☒	Cable Tool ☐	4" + 2" Inches	Diameter ☐
Borehole (No.) ☐	Assess/Leak Detect ☐	Other ☐		Wall or Gage ☐
MW 1/4-17 ASSUME 1-15	Other ☐			

PROPOSED SEALING ZONE(S)	SEALING MATERIAL (CHECK)	PERFORMATIONS OR SCREEN
From 30 to 8 Ft. with	Neat Cement ☒ Betonite Clay ☐	From to Ft.
From 20 to 8 Ft. with	Cement Grout ☐ Concrete ☐	From to Ft.
From to Ft. with	(10 Sack/Yd Mix) (6 Sack/Yd Mix)	From to Ft.

LOCATION

INDICATE BELOW THE EXACT LOCATION OF WELL WITH RESPECT TO THE FOLLOWING ITEMS: PROPERTY LINES, WATER BODIES OR WATER COURSES, DRAINAGE PATTERN, ROADS, EXISTING WELLS, SEWERS AND PRIVATE SEWAGE DISPOSAL SYSTEMS. INCLUDE DIMENSIONS. LIST ASSESSOR'S PARCEL NUMBER, THOMAS BROS. GUIDE NUMBER, STATE WELL NO. & QUAD NO.

See attached site plan and well destruction diagram

CITY OF OXNARD DEVELOPMENT SERVICES APPROVED BY: [signature] DATE: 12/2/04

STATE WELL NO. THOMAS BROS. GUIDE

CITY OF OXNARD
PERMIT CONDITIONS
305 WEST THIRD STREET, OXNARD, CALIFORNIA 93030

Permit No. 04-7370

CONDITIONS FOR MONITORING WELL AND ENGINEERING TEST BOREHOLE DESTRUCTION:

X Neat cement sealing material shall be applied from total depth of the 15 monitoring well(s) to within five (5) feet of finish grade by means of a grout pipe placed within two (2) feet of the base of the sealing zone with sufficient pressure (7 to 10 psi) applied to ensure adequate sealing of the annular space and interior of the well.

X Pressure shall be maintained until cement has set (3+ hours).

X Casing shall be removed to a depth of five (5) feet below finish grade, and the work area shall be backfilled with native materials.

X The 15 monitoring well(s) shall be redrilled to original total depth. Redrilling shall include removal of existing casing, seal, and sand/gravel envelope (required for all well(s) in or within 1000 feet of the Oxnard plain forebay basin, also within the paved area of City streets).

____ Bentonite chips hydrated in place or cement grout sealing material shall be applied from total depth of the monitoring well(s) or borehole(s) to within five (5) feet of finish grade by means of a grout pipe placed within two (2) feet of the base of the sealing zone (required for all wells and boreholes in or within 1000 feet of the Oxnard plain forebay basin).

X The borehole interval from five (5) feet below finish grade up to ground surface shall be backfilled with bentonite, inert imported fill or clean native materials.

____ The borehole interval from five(5) feet below finish grade to surface minus existing pavement thickness plus one inch (1") shall be backfilled with bentonite chips hydrated in place or inert imported fill with a sand equivalent of not less than twenty (20) and shall be mechanically compacted to a minimum density of 90%. The final paving shall be asphalt concrete one inch (1") thicker than the existing pavement. Refer to City Standard Plate 602 (required for all wells or boreholes within the paved area of City streets).

X An Inspector, registered with the City of Oxnard or their designee, shall be present during removal of existing casing, seal and sand/gravel pack, and placement of all sealing material.

____ A City construction Inspector shall be present during removal of existing casing, seal and sand/gravel pack, and placement of all sealing material. Permittee agrees to notify the Inspector at least 48 hours in advance of all monitoring well(s) or borehole(s) destruction work. Contact Inspector at phone number 805-385-7840.

X All work shall be performed by a well contractor licensed by the State of California, registered with the City of Oxnard and have a current City Business License.

____ All investigation-derived wastes (e.g., soil cuttings, purged groundwater, etc.) must be removed and properly disposed of within ninety (90) days from the initial date of generation.

____ A completed registered Inspector's sealing report is required to be submitted to this department within 30 days for each (monitoring well) (engineering test hole) destroyed pursuant to this permit. Failure to provide the sealing report would compel the City to void your company's ability to do self-inspections.

Mail to: City of Oxnard
Development Services Program
305 West Third Street
Oxnard, California 93030

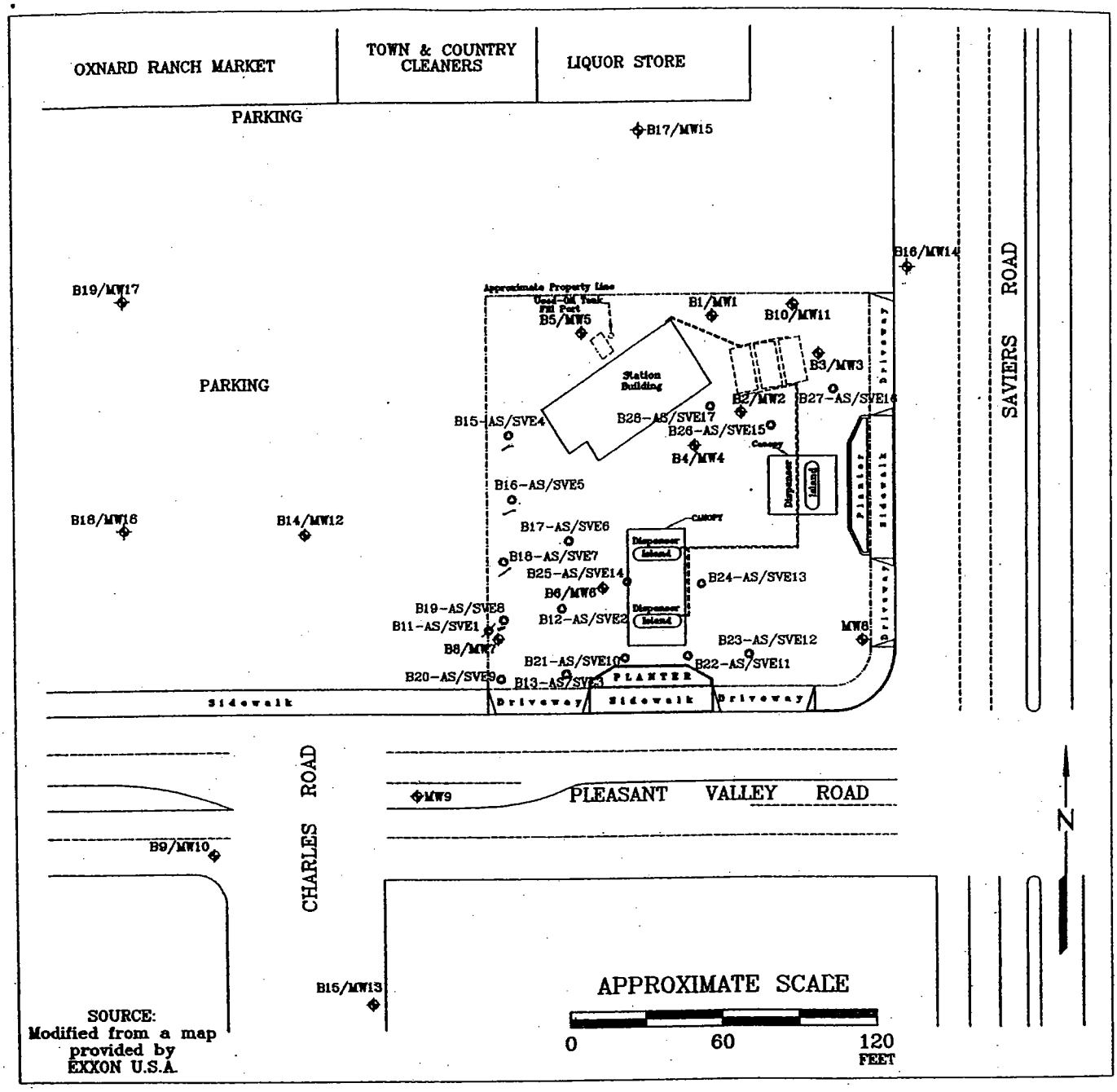
APPROVED
BY:
DATE:

OTHER CONDITIONS:

I represent the consultant overseeing the destruction of the monitoring wells or boreholes for this permit and agree to implement the above marked conditions.

Signature Stephen Day Date 12-2-04

Approved For Destruction _____ Date _____



FN 14150005

EXPLANATION

B19/MW17	Groundwater monitoring well
B28-AS/SVE17	Air sparging/soil vapor extraction well
B11-AS/SVE1	Abandoned air sparging/soil vapor extraction well
----------	Product line piping
[ ]	Underground storage tanks

APPROVED

ERI ENVIRONMENTAL RESOLUTIONS, INC.

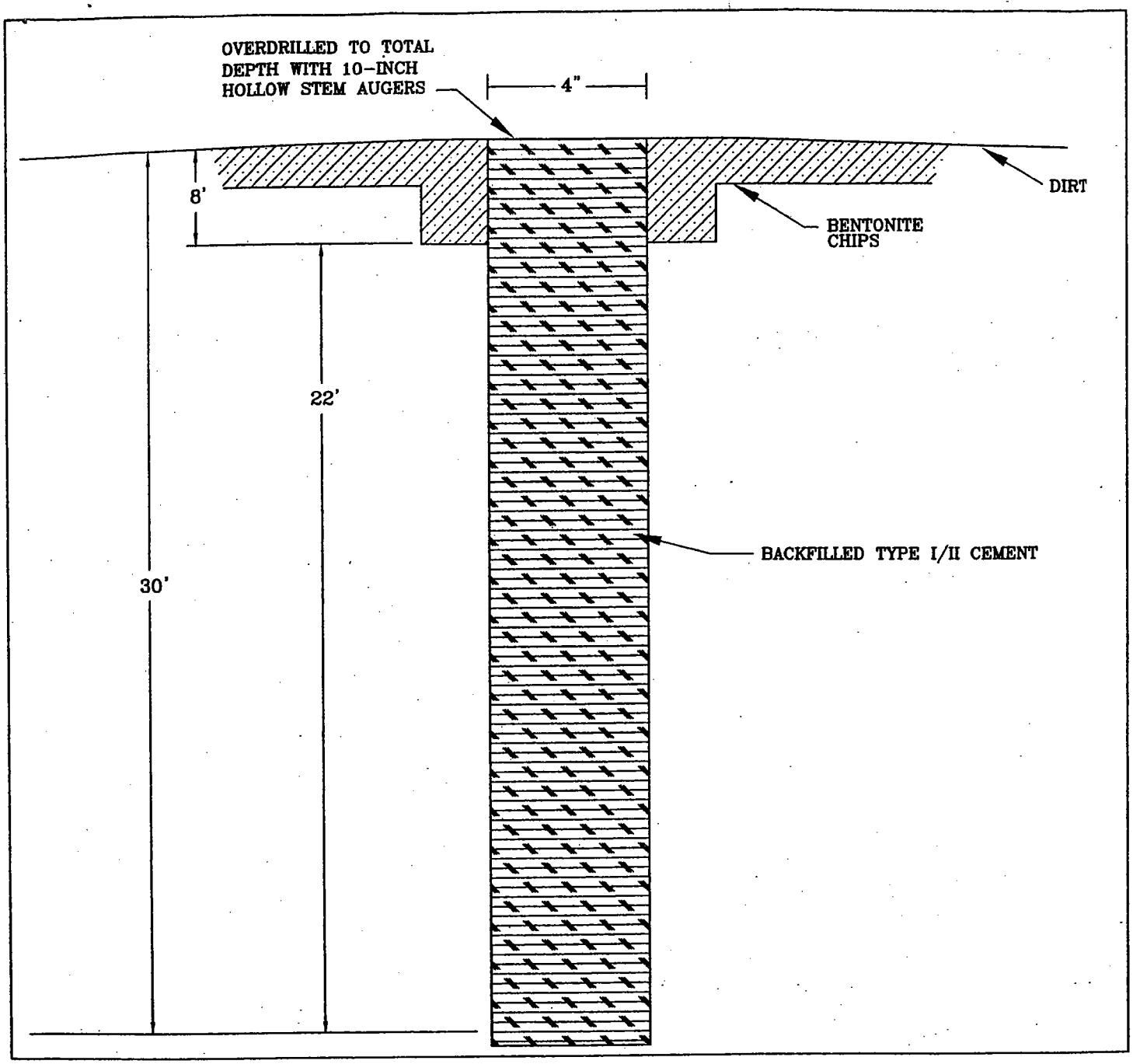
GENERALIZED SITE PLAN

FORMER EXXON STATION 74115
105 West Pleasant Valley Road
Oxnard, California

PROJECT NO. 1415

PLATE P-2

DATE: 09/28/04



FN 1415DEST

Date: 11/30/04

ERI ENVIRONMENTAL RESOLUTIONS, INC.

PROJECT ERI 1415

GROUNDWATER MONITORING WELL DESTRUCTION DIAGRAM

Former Exxon Station 74115
105 West Pleasant Valley Road
Oxnard, California

PLATE

2

APPENDIX C

BORING LOGS

Depth in Feet	Blows/Ft	Sample No.	USCS	DESCRIPTION	WELL CONST.
0				ASPHALT	
2					
4	11	S-4	SP	SAND, MEDIUM GRAINED, SOME COARSE SAND, BROWN, SLIGHTLY DAMP, LOOSE OVM = 0	
6			SC		
8	7	S-8		CLAYEY SAND, FINE-GRAINED, BLACK, SLIGHTLY DAMP, LOOSE, MODERATE PRODUCT ODOR OVM = 0	
10					
12					
14					
16					
18					
20					
22					
24					
26					
28				TOTAL BORING DEPTH = 27 FEET BELOW GRADE GROUND-WATER ENCOUNTERED AT 8 FEET BELOW GRADE. HEAVING SANDS ENCOUNTERED.	
30					

DEPTH IN FEET

LOGGED BY C.S., MARCH 13, 1991

FN500211B4

Applied GeoSystems

PROJECT NO. 50021-1

LOG OF BORING B4/MW4
EXXON STATION NO. 7-4115
105 PLEASANT VALLEY ROAD
OXNARD, CALIFORNIA

PLATE 4

Blows/Ft	Sample No.	USCS	DESCRIPTION
			ASPHALT
9	S-4	SM	SILTY SAND, FINE TO MEDIUM GRAINED, BLACKISH BROWN, SLIGHTLY DAMP, LOOSE OVM = 0
9	S-8	SP	SAND, MEDIUM-GRAINED, GRAY, WET, LOOSE OVM = 0
			TOTAL BORING DEPTH = 30 FEET BELOW GRADE GROUND-WATER ENCOUNTERED AT 7.5 FEET BELOW GRADE. HEAVING SANDS ENCOUNTERED.

DEPTH IN FEET: 0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30

WELL CONST.

LOGGED BY C.S., MARCH 13, 1991

FN500211B5

Applied GeoSystems

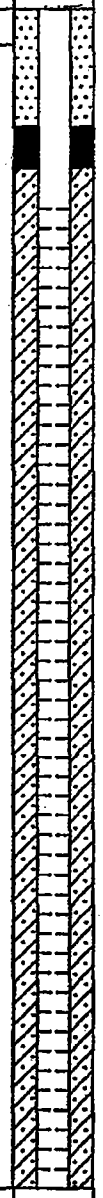
PROJECT NO. 50021-1

LOG OF BORING B5/MW5
EXXON STATION NO. 7-4115
105 PLEASANT VALLEY ROAD
OXNARD, CALIFORNIA

PLATE 5

Depth (Feet)	Blows/Ft	Sample No.	USCS	DESCRIPTION
0				ASPHALT
2				
4	9	S-4	SP	SAND, FINE GRAINED, GRAY, DRY, LOOSE OVM = 0
6				PETROLEUM HYDROCARBON ODOR DETECTED IN DRILL CUTTINGS
8	14	S-8		BLACK, LOOSE, WET, STRONG ODOR OVM = 0
10				
12				
14				
16				
18				
20				
22				
24				
26				
28				
30				TOTAL BORING DEPTH = 30 FEET BELOW GRADE GROUND-WATER ENCOUNTERED AT 7.5 FEET BELOW GRADE HEAVING SANDS ENCOUNTERED

WELL CONST.



LOGGED BY C.S., MARCH 14, 1991

FN500211B6

Applied GeoSystems

PROJECT NO. 50021-1

LOG OF BORING B6/MW6

EXXON STATION NO. 7-4115
105 PLEASANT VALLEY ROAD
OXNARD, CALIFORNIA

PLATE 6

TOTAL DEPTH OF BORING/WELL: SEE ATTACHED SHEET DATE DRILLED: 5-28-92

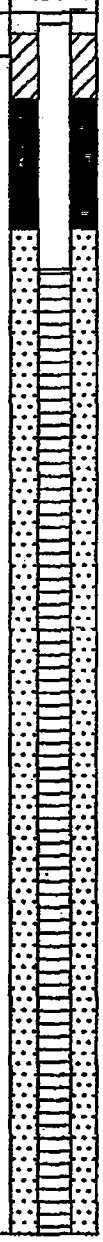
CASING DIAMETER: 8 INCHES SLOT SIZE: 0.02 INCHES SCREENED INTERVAL: 25 ft.

DRILLING COMPANY: RESNA INDUSTRIES DRILLER: MARK VORIS METHOD: HOLLOW STEM AUGER

REGISTERED GEOLOGIST: H. STEVE CLARKE FIELD GEOLOGIST: JEFF JOHNSON

Depth in Ft	Blows/Ft	Sample No.	USCS	DESCRIPTION
0				ASPHALT
2				
4	13	S-4	SW	SAND (SW), FINE TO MEDIUM SAND, GREENISH GRAY, DAMP, MEDIUM DENSE, HYDROCARBON ODOR PID = 232
6	24	S-6.5		WET PID = 180
8	19			
10				
12				
14				
16				
18				
20				
22				
24				
26				
28				

WELL CONST.



CONTINUED DOWNWARD ON NEXT PAGE

FN:50021M8A

RESNA
5301 Beethoven Street, Suite 255
Los Angeles, California 90066

PROJECT NO. 50021-3

LOG OF BORING B8/MW7

EXXON STATION NO. 7-4115
105 WEST PLEASANT VALLEY ROAD
OXNARD, CALIFORNIA

PLATE 4

Depth in Ft	Blows/ Ft	Sample No.	USCS	DESCRIPTION	WELL CONST.
28				? ? ? ? ? ?	
30			CL	SILTY CLAY (CL), GREENISH BROWN, VERY MOIST, MEDIUM STIFF (AS INDICATED BY CUTTINGS)	
32				TOTAL DEPTH OF WELL = 31 ft. GROUND WATER ENCOUNTERED AT 7 ft. MONITORING WELL MW7 INSTALLED	
34					
36					
38					
40					
42					
44					
46					
48					
50					
52					
54					
56					
58					
60					

CONTINUED DOWNWARD ON NEXT PAGE

FN:50021M8B

5301 Beethoven Street, Suite 255
Los Angeles, California 90066

PROJECT NO. 50021-3

LOG OF BORING B8/MW7

EXXON STATION NO. 7-4115
105 WEST PLEASANT VALLEY ROAD
OXNARD, CALIFORNIA

PLATE 5

TOTAL DEPTH OF BORING/WELL 25/25 FEET DATE DRILLED: 7-6-93

CASING DIAMETER: 4-INCH SLOT SIZE: 0.020 SCREENED INTERVAL: 5-25 FEET

DRILLING COMPANY: VALLEY WELL DRILLING DRILLER: METHOD: HOLLOW-STEM AUGER

REGISTERED GEOLOGIST: FIELD GEOLOGIST: BARRY KAUFMAN

DRAFT

Depth in Ft	Blows/ Ft	Sample No.	USCS	DESCRIPTION	WELL CONST.
0				ASPHALT	
2					
4			SP	SAND, MEDIUM-GRAINED, GRAY-BROWN, DAMP, LOOSE OVM = 0 PPM	
6	10	S-5			
8					
10	6	S-10		SAME AS ABOVE, WET OVM = 0 PPM	
12					
14				SAME AS ABOVE, FINE- TO COARSE GRAVEL, MEDIUM DENSE OVM = 0 PPM	
16	15	S-15			
18					
20	9	S-20		SAME AS ABOVE, TRACE FINE GRAVEL, LOOSE OVM = 0 PPM	
22					
24				SAND, MEDIUM-GRAINED, GRAY, WET, MEDIUM DENSE OVM = 0 PPM	
26	15	S-25			
28				TOTAL DEPTH OF BORING = 25 FEET GROUND WATER ENCOUNTERED AT 6.5 FEET GROUND-WATER MONITORING WELL INSTALLED	

FN 500214B1

RESNA
17062 Murphy Avenue
Irvine, CA 92714-5914

PROJECT 50021-4B

LOG OF BORING MW8

EXXON STATION NO. 7-4115
105 WEST PLEASANT VALLEY ROAD
OXNARD, CALIFORNIA

PLATE 4

TOTAL DEPTH OF BORING/WELL 25 FEET DATE DRILLED: 5-18-94

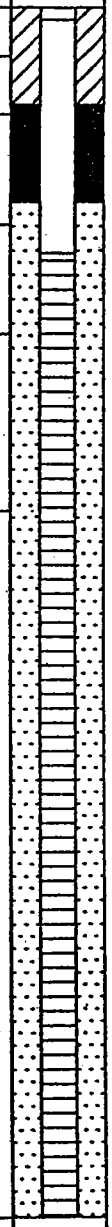
CASING DIAMETER: 2 INCHES SLOT SIZE: 0.020-INCH SCREENED INTERVAL: 5-25 FEET

DRILLING COMPANY: RESNA INDUSTRIES DRILLER: MARK VORIS METHOD: HOLLOW STEM AUGER

REGISTERED GEOLOGIST: John W. Pudgeuit R.G. 643 FIELD GEOLOGIST: DAVE REICHARD

Depth in Ft	Blows/Ft	Sample No.	USCS	DESCRIPTION
0				ASPHALT
2			ML	SILT (ML), BROWN, DAMP, MICA FLAKES
				SANDY SILT (ML), 10-20% FINE SAND, BROWN WITH ORANGE MOTTLING, DAMP, HARD PID = 1.3 PPM
4			ML	
	94	S-4.5	SM	SILTY SAND (SM), FINE SAND, LIGHT YELLOW-BROWN, DAMP, VERY DENSE PID = 1.3 PPM
6	83	S-6	SW	
	58	▽		SAND (SW), FINE TO COARSE SAND, 5-15% FINES, LIGHT YELLOW-BROWN, MOIST, VERY DENSE PID = 0
8				
10				SAME AS ABOVE, VERY MOIST-WET
			SW	SAND (SW), FINE TO COARSE SAND, 0-10% FINES, WET, VERY DENSE PID = 257 PPM
12				
14				SAME AS ABOVE
16				
18				
20				SAME AS ABOVE
22				
24				SAME AS ABOVE
26				TOTAL DEPTH OF BORING = 25 ft. GROUNDWATER ENCOUNTERED AT 7.2 ft
28				

WELL CONST.



FN:50021MW9

RESNA
2291-A Portola Road
Ventura, California 93003

PROJECT NO. 50021

LOG OF BORING MW9

FORMER EXXON STATION NO. 7-4115
105 WEST PLEASANT VALLEY ROAD
OXNARD, CALIFORNIA

PLATE 4

ENVIRONMENTAL RESOLUTIONS, INC.

Project No.: 1415 Boring: B9/MW10 Plate: APPENDIX

Client: Former Exxon Station 7-4115 Date: 04/17/95

Drill Contractor: W.HM

Sample Method: Split Spoon Geologist: CLAUS M. JAKOBSEN

Drill Rig: CME-75 Bore Hole Diameter: 8" Signature: [signature]

Location: Central Eastbound lane at Pleasant Valley road and Charles St. intersection. Registration: R.G. 5909

DEPTH (ft)	BLOW COUNTS	OVA/HNu (Ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
						4" Asphalt over roadbase	
					SP	Sand, medium-grained, brown, very moist to wet, massive, scant matrix, moderately well sorted, scattered rounded gravel to 1"	
5	42	0					
10	39	0				medium gray, wet	
15	40	0					
					SP	Sand, fine-to medium-grained, light gray, wet, contains interbedded 2" thick clayey silt layers, minor matrix, moderately sorted	
20	40	0					
25	51	0					
						Total Depth = 26 1/2 feet Groundwater measured at 5.0 bgs. prior to surge blocking.	
30							
35							
40							

ENVIRONMENTAL RESOLUTIONS, INC.

Project No.: 1415 Boring: B10/MW11 Plate: APPENDIX
Client: Former Exxon Station 7-4115 Date: 04/17/95
Drill Contractor: W.HM
Sample Method: Split Spoon Geologist: CLAUS M. JAKOBSEN
Drill Rig: CME-75 Bore Hole Diameter: 8" Signature: [signature]
Location: Northeast corner of Station. Registration: R.G. 5909

DEPTH (ft)	BLOW COUNTS	OVA/HNu (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
						6" Concrete over fill	
					SP	Sand, fine-to medium-grained, tannish brown, very moist, massive, scant matrix, moderately sorted	
5	16	4					
	25	▼ 5					
10	53	3				wet	
15	45	4.2					
20	45	4.5				medium-grained, light gray,	
25	38	4.0				contains scattered gravel to 1"	
						Total Depth = 26 1/2 feet Groundwater measured at 6.80 feet bgs. prior to surge blocking.	
30						Groundwater measured in nearby well MW3 at 6.91 feet bgs prior to drilling.	
35							
40							

ENVIRONMENTAL RESOLUTIONS, INC.

Project No.: 1415 Boring: B12/ASVE2 Plate: APPENDIX
Client: Former Exxon Station 7-4115 Date: 04/18/95
Drill Contractor: W.HM
Sample Method: Split Spoon Geologist: CLAUS M. JAKOBSEN
Drill Rig: CME-75 Bore Hole Diameter: 10" Signature: Claus M Jakobsen
Location: Near Southwest corner of Station. Registration: R.G. 5909

DEPTH (ft)	BLOW COUNTS	OVA/HNu (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
						2" Asphalt over fill	
					SP	Sand, fine-grained, medium gray, wet, massive, scant matrix, moderately well sorted	
5	50	886					
10	24	179				medium-grained, brown	
15	45	231					
20	15	118				fine-grained, medium gray, a few 1/2" gravels	
						Total Depth = 21 1/2 feet Groundwater measured in nearby well MW6 at 6.10 feet bgs.	
25							
30							
35							
40							

ENVIRONMENTAL RESOLUTIONS, INC.

Project No.: 1415 Boring: B13/ASVE3 Plate: APPENDIX
Client: Former Exxon Station 7-4115 Date: 04/18/95
Drill Contractor: W.HM
Sample Method: Split Spoon Geologist: CLAUS M. JAKOBSEN
Drill Rig: CME-75 Bore Hole Diameter: 10" Signature: Claus M. Jakobsen
Location: On South PL near the SW. corner. Registration: R.G. 5909

DEPTH (ft)	BLOW COUNTS	OVA/HNu (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
						2" Asphalt over fill	
					SP	Sand, fine-grained, medium gray, wet, massive, scant matrix, moderately well sorted	
5	42	530					
10	39	20				medium-grained, brown, a few 1/2" rounded gravels	
						medium gray	
15	51	19					
20	45	16					
						Total Depth = 21 1/2 feet Groundwater measured in nearby well MW6 at 6.10 feet bgs.	
25							
30							
35							
40							

ENVIRONMENTAL RESOLUTIONS, INC.

Project No.: 1415 Boring: B14/MW12 Plate: APPENDIX
Client: Former Exxon Station 7-4115 Date: 04/18/95
Drill Contractor: W.HM
Sample Method: Split Spoon Geologist: CLAUS M. JAKOBSEN
Drill Rig: CME-75 Bore Hole Diameter: 8" Signature: Claus M. Jakobsen
Location: Offsite well to the west of the station in Pleasant Valley mall parking lot. Registration: R.G. 5909

DEPTH (ft)	BLOW COUNTS	OVA/HNu (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
						1 1/2" asphalt over fill	
					SP	Sand, fine-grained, medium gray, very moist to wet, massive, silty matrix, moderately sorted	
5	39	13					
10	34	4760				medium-grained, brown, wet,	
15	36	206				light tan	
20	33	22					
25		6				fine-grained	
						Total Depth = 25 1/2 feet Groundwater measured at 6.2 feet bgs. prior to surge blocking.	
30							
35							
40							

ENVIRONMENTAL RESOLUTIONS, INC.

Project No.: 1415 Boring: B15/MW13 Plate: APPENDIX
Client: Former Exxon Station 7-4115 Date: 12/05/95
Drill Contractor: Drill Line
Sample Method: Split Spoon Geologist: CLAUS M. JAKOBSEN
Drill Rig: CME-75 Bore Hole Diameter: 8" Signature:
Location: 57' S. of Pleasant Valley Rd., 7' W. of E. curbline on Charles Road Registration: R.G. 5909

DEPTH (ft)	BLOW COUNTS	OVA/HNu (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
						3" asphaltic concrete	
					SM	Silty sand, fine- to medium-grained, brown, moist, micaceous	
					SP	Sand, fine- to medium-grained, brown, moist	
5	13	136					
		▼					
10	11	106				fine- to coarse-grained, saturated	
	13	31					
15	45	119				medium- to coarse-grained	
20	52	0					
25	41	0					
30	25	0					
						Total Depth = 30 1/2 feet Groundwater encountered at 7 feet.	
35							
40							

ENVIRONMENTAL RESOLUTIONS, INC.

Project No.: 1415 Boring: B16/MW14 Plate: APPENDIX
Client: Former Exxon Station 7-4115 Date: 12/05/95
Drill Contractor: Drill Line
Sample Method: Split Spoon Geologist: CLAUS M. JAKOBSEN
Drill Rig: CME-75 Bore Hole Diameter: 8" Signature:
Location: 173' N. of Pleasant Valley Rd. 7' E. of W. curbline on Saviers Rd. Registration: R.G. 5909

DEPTH (ft)	BLOW COUNTS	OVA/HNu (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
						3" asphaltic concrete	
					SM	Silty sand, fine- to coarse-grained, brown, moist, slightly micaceous, with fine- to coarse gravel	
					SP	Sand, fine- to coarse-grained, brown, moist, with fine to coarse gravel	
5	18	20					
		▼					
10	14	11				saturated	
	16	3					
15	29	3					
20	50/6"	20					
25	32	0				medium- to coarse-grained	
30	48	2					
						Total Depth = 30 1/2 feet Groundwater encountered at 7 feet.	
35							
40							

ENVIRONMENTAL RESOLUTIONS, INC.

Project No.: 1415 Boring: B17/MW15 Plate: APPENDIX
Client: Former Exxon Station 7-4115 Date: 12/06/95
Drill Contractor: Drill Line
Sample Method: Split Spoon Geologist: CLAUS M. JAKOBSEN
Drill Rig: CME-75 Bore Hole Diameter: 8" Signature: [signature]
Location: 36' S. of Liquor store, 97' W. of Saviers Rd. Registration: R.G. 5909

DEPTH (ft)	BLOW COUNTS	OVA/HNu (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
						3" asphaltic concrete	
					SM	Silty sand, fine- to coarse-grained, light brown to brown, moist, micaceous	
					SP	Sand, fine- to coarse-grained, brown, moist, with some fine gravel	
5	14	12					
		▼					
10	14	10				saturated	
	30	7					
15	36	3					
					SM	Silty sand, fine- to medium-grained, grayish-brown, saturated, micaceous	
20	50/6"	2					
					SP	Sand, fine- to coarse-grained, brown, saturated	
25	46	0					
					CL	Silty clay, brown, saturated, slightly micaceous, medium to high plasticity	
30	16	0					
						Total Depth = 30 1/2 feet Groundwater encountered at 7 feet.	
35							
40							

ENVIRONMENTAL RESOLUTIONS, INC.

Project No.: 1415 Boring: B18/MW16 Plate: APPENDIX
Client: Former Exxon Station 7-4115 Date: 12/06/95
Drill Contractor: Drill Line
Sample Method: Split Spoon Geologist: CLAUS M. JAKOBSEN
Drill Rig: CME-75 Bore Hole Diameter: 8" Signature: [signature]
Location: 240' S. of Oxnard Market, 65' N. of Pleasant Valley Rd. Registration: R.G. 5909

DEPTH (ft)	BLOW COUNTS	OVA/HNu (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
						3" asphaltic concrete	
					SM	Silty sand, fine- to coarse-grained, brown, moist, micaceous	
					SP	Sand, fine- to coarse-grained, brown, moist, with fine gravel	
5	28	4					
		▼					
10	14	2				fine- to medium-grained, saturated	
	25	3				fine- to coarse gravel	
15	31	6				grayish-brown to brown	
20	55	0				decreased gravel	
25	50/6"	0					
30	23	1					
						Total Depth = 30 1/2 feet Groundwater encountered at 7 feet.	
35							
40							

ENVIRONMENTAL RESOLUTIONS, INC.

Project No.: 1415 Boring: B19/MW17 Plate: APPENDIX
Client: Former Exxon Station 7-4115 Date: 12/06/95
Drill Contractor: Drill Line
Sample Method: Split Spoon Geologist: CLAUS M. JAKOBSEN
Drill Rig: CME-75 Bore Hole Diameter: 8" Signature:
Location: 149' S. of Oxnard market, 156' N. of Pleasant Valley Rd. Registration: R.G. 5909

DEPTH (ft)	BLOW COUNTS	OVA/HNu (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
						3" asphaltic concrete	
					SM	Silty sand, fine- to coarse-grained, brown, micaceous, with some fine gravel	
5	23	17					
					ML	Sandy silt, fine-grained sand, brown, saturated, very micaceous	
10	30	3					
	31	9			SP	Sand, fine- to coarse-grained, grayish-brown, saturated	
15	39	3				fine- to medium-grained	
20	48	1					
25	50/6"	0					
30	50/6"	0				Total Depth = 30 feet Groundwater encountered at 7 feet.	
35							
40							

APPENDIX D

MANIFEST

TPS Technologies Soil Recycling

Non-Hazardous Soils

Date of Shipment:	Responsible for Payment:	Transporter Truck #:	Facility #:	Given by TPS:	Load #
1/7/2005	BESI	707-476	A07	24-261	01

Generator and/or Consultant

Generator's Name and Billing Address: Waste Administration Coordinator ExxonMobil GR Waste Management Group 16825 Northchase Drive, Room 919A Houston, TX 77060	Generator's Phone #: Person to Contact: FAX#:	Generator's US EPA ID No. Customer Account Number with TPS:
Consultant's Name and Billing Address: ERI	Consultant's Phone #: Person to Contact: FAX#:	 Customer Account Number with TPS:
Generation Site (Transport from): *(name & address)* FORMER EXXON 7-4115 105 W. PLEASANT VALLEY ROAD OXNARD, CA	Site Phone #: Person to Contact: FAX#:	BTEX Levels TPH Levels AVG. Levels
Designated Facility (Transport to): *(name & address)* TPS TECHNOLOGIES, INC. 12328 HIBISCUS AVENUE ADELANTO, CA 92301	Facility Phone #: 800-862-8001 Person to Contact: DELLENA JEFFREY FAX#: 760-246-8004	Facility Permit Numbers
Transporter Name and Mailing Address: B.E.S.I. 25971 TOWNE CENTRE DRIVE LAKE FOREST, CA 92610 BESI#107586.03	Transporter's Phone #: 949-460-5200 Person to Contact: Larry Moothart FAX#: 949-460-5210	Transporter's US EPA ID No.: CAD983584681 Transporter's DOT No.: 450647 Customer Account Number with TPS: 1000193

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand ☐ Organic ☐ Clay ☐ Other ☐	0 - 10% ☒ 10 - 20% ☐ 20% - over ☐	Gas ☐ Diesel ☐ Other ☐			50940	34020	16920
Sand ☐ Organic ☐ Clay ☐ Other ☐	0 - 10% ☐ 10 - 20% ☐ 20% - over ☐	Gas ☐ Diesel ☐ Other ☐					8.46

List any exception to items listed above: 117586

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator ☐ Consultant ☐ — Larry Moothart BESI on behalf of ExxonMobil

Signature and date: [signature] Month 01 Day 07 Year 05

Transporter

Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: [signature] (04-CT)

Signature and date: [signature] Month 1 Day 7 Year 05

Recycling Facility

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: D. JEFFREY / J. PROVANSOL

Signature and date: [signature] 1-10-5