Edd Clark & Associates, Inc.
Environmental Consultants

March 8, 2006
Job No.: 0302,001.97

Emil Shokohi
% Mansor Shokohi
P.O. Box 866
Albion, CA 95410

Groundwater Monitoring Report - December 2005 Event
Former Albion Shell
3300 Highway 1 North
Albion, California

Dear Mr. Shokohi:

This report presents the results of Edd Clark & Associates, Inc.'s (EC&A's) December 29, 2005 groundwater monitoring activities completed in the vicinity of the former Albion Shell Station, 3300 Highway 1 North (site) in Albion, California (Figure 1). Groundwater monitoring has been conducted quarterly at the site and near-site vicinity since October 1999 at the request of the North Coast Regional Water Quality Control Board (NCRWQCB) because of a release of fuel hydrocarbons (FHCs) to soil and groundwater from underground storage tanks (USTs) for gasoline formerly located at the site. Groundwater monitoring for the December 2005 event was conducted in accordance with the NCRWQCB's July 8, 2004, revised *MRP No. R1-2004-0061* and with verbal revisions to this MRP agreed upon by the NCRWQCB and EC&A on December 2, 2005. The December 2005 monitoring event is the fifth monitoring event conducted at the site since activation of the ozone microsparging systems on November 1, 2004. A copy of this report will be sent to the NCRWQCB and to the Mendocino County Environmental Health Department (MCEHD) for their review.

Completed Scope of Work
Work performed for the December 2005 sampling event included:
- Measuring depth to water (DTW) in monitoring wells MW-1, MW-2 and MW-5 through MW-18;
- Calculating the groundwater-flow direction and gradient;
- Collecting groundwater samples for chemical analyses from MW-2, MW-6, MW-9, MW-11, MW-15 through MW-18, the water-supply well servicing the site (DW-1), the water-supply wells servicing the Ledford House Restaurant (LHW-1/LHW-2) and surface-water samples from the duck pond (DP), the southwest drainage area (SW-1) and the northwest drainage area (SW-4);
- Recording ozone microsparging groundwater parameters from MW-2, MW-6, MW-9, MW-11, MW-15 through MW-18;
- Evaluating the results of the calculations and sample analyses; and
- Preparing this report.

P.O. Box 3039, Rohnert Park, CA 94927-3039
Telephone (707) 792-9500
Fax (707) 792-9504
corpmail@ecaenviron.com

Monitoring Wells

Water-level Measurements

On December 29, 2005, EC&A personnel measured groundwater levels in MW-1, MW-2 and MW-5 through MW-18. DTW below the top of the well casing (TOC) in each well was measured to the nearest 0.01 foot (ft) with a water-level meter. The meter was cleaned and rinsed prior to taking measurements in each well. Groundwater-level measurements were recorded after the well caps were removed and the wells were allowed to equilibrate for a minimum of 15 minutes. DTW ranged from 0.33 ft in MW-15 to 8.43 ft in MW-12; groundwater-flow direction and gradient in the vicinity of the former USTs were calculated to be S58°W and 0.036 ft/ft, respectively (Figure 3 and Table 1). Water-level data from MW-13 and MW-14 were not used to calculate the groundwater-flow direction and gradient because these wells are deep wells that are screened within bedrock.

Groundwater Field Logs containing the DTW measurements are in Appendix A. DTW data will be electronically submitted to the State GeoTracker Internet Database.

Monitoring Well Groundwater Sampling Procedures

On December 29, 2005, EC&A personnel collected groundwater samples from MW-2, MW-6, MW-9, MW-11 and MW-15 through MW-18. Prior to collecting samples, the monitoring wells were purged with a submersible pump. Free-floating product was not present in the purged water; however, an odor of FHCs was detected in water purged from MW-2, MW-6, MW-15 and MW-18. Groundwater pH, temperature, electric conductivity, dissolved oxygen (DO) and oxidation-reduction potential (ORP) were measured during purging of the wells at intervals of approximately one well-casing volume. Groundwater samples were collected from the wells after groundwater parameters stabilized and/or either the water level returned to a minimum of 80% of the initially recorded water level or sufficient groundwater re-entered the well. Purge volumes and groundwater-quality parameters are recorded on the Field Logs in Appendix A.

Groundwater samples were collected in new single-sample, disposable bailers fitted with disposable bottom-emptying devices to minimize degassing of samples to be analyzed for volatile chemical constituents. Samples were transferred from the bailers to properly labeled, laboratory-supplied sterile sample containers, placed on ice and transported under chain-of-custody control to McCampbell Analytical, Inc. (MAI) for chemical analysis. MAI is a state-certified laboratory in Pacheco, California.

Monitoring Well Groundwater Sample Analysis and Analytical Results

All the groundwater samples collected from the monitoring wells were analyzed for methyl tert-butyl ether (MTBE) and other gasoline oxygenates by Analytical Method SW8260B. Groundwater samples collected from MW-2, MW-6 and MW-15 through MW-18 were also analyzed for total petroleum hydrocarbons (TPH) as gasoline (g) and benzene, toluene, ethylbenzene and xylenes (BTEX) by Analytical Methods SW8021B/8015Cm.

TPHg and benzene were detected in groundwater samples collected from MW-2, MW-6, MW-15, MW-16 and MW-18. TPHg concentrations ranged from 4300 micrograms per liter (µg/l) in MW-2 to 98,000 µg/l in MW-15; benzene concentrations ranged from 610 µg/l (MW-2) to 17,000 µg/l (MW-15). Toluene, ethylbenzene and/or xylenes were also detected in MW-2, MW-6, MW-15, MW-16 and MW-18; the maximum concentrations were 11,000 µg/l toluene in MW-15 and 1900 µg/l ethylbenzene and 8700 µg/l xylenes in MW-16.

MTBE was detected in groundwater samples from MW-2, MW-6, and MW-15 through MW-18 at concentrations ranging from 54 µg/l (MW-17) to 59,000 µg/l (MW-16).

Analytical results for FHCs and oxygenates are presented in Table 2. Figures 5, 6 and 7 are isoconcentration maps of TPHg, benzene and MTBE, respectively, in groundwater. A complete copy of the analytical laboratory report is in Appendix B. The results of the analyses of the samples will be electronically submitted to the State GeoTracker Internet Database.

Water-supply Wells and Surface Water

On December 29, 2005, EC&A personnel collected water samples from onsite water-supply well DW-1, offsite Ledford House Restaurant combined water-supply wells LHW-1 and LHW-2 (sample ID LHW-1/2), and surface-water samples from the duck pond (DP), the northwest drainage (SW-4) and the southwest drainage (SW-1).

Water-supply Wells and Surface-water Sampling Procedures

Sample DW-1 was collected from the closest tap to the well head after the tap ran for approximately 15 minutes. Sample LHW-1/2 was collected from a faucet located just north of the kitchen entrance of the Ledford House Restaurant. EC&A understands that water-supply wells LHW-1 and LHW-2 are plumbed together and water from these wells is stored and chlorinated in a single holding tank and then pumped to the Ledford House Restaurant. Reportedly, only LHW-2 was in service when the samples were collected.

Surface-water samples DP, SW-1 and SW-4 were collected by lowering sterile, laboratory-supplied sample containers directly into the water, avoiding contact with soil or other materials. Sample DP was collected from the northwest corner of the duck pond. Sample SW-1 was collected from the Duck Pond drainage 30 ft south of MW-10 and sample SW-4 was collected approximately 10 ft north of MW-14 in an area of natural drainage.

Water-supply Wells and Surface-water Sample Analysis and Analytical Results

Samples from DW-1, LHW-1/2, DP, SW-1 and SW-4 were analyzed for MTBE and other gasoline oxygenates by Analytical Method SW8260B. Samples DW-1 and LHW-1/2 were also analyzed for TPHg and BTEX by Analytical Methods SW8021B/8015Cm.

The only analyte detected in the water-supply well and surface-water samples collected for this event was 4.4 µg/l MTBE in SW-1. Table 3 presents analytical results for samples collected from water-supply wells and surface waters. A complete copy of the analytical laboratory report is in Appendix B. The results of the analyses of the samples will be electronically submitted to the State GeoTracker Internet Database.

Decontamination Procedures
Sampling equipment was cleaned onsite with a low-phosphorous soap and water solution and double rinsed with tap water. Decontamination water and monitoring well purge water were placed in properly labeled, DOT 17H 55-gallon drums for temporary, onsite storage.

Ozone Microsparging Groundwater Parameters
As required by the NCRWQCB in the revised *MRP No. R1-2004-0061*, groundwater samples from MW-2, MW-6 and MW-15 through MW-18 were also analyzed for the inorganic anions bromate and bromide (by Analytical Method E300.1) and the dissolved metals hexachrome (by Analytical Method E218.6), molybdenum, selenium and vanadium (by Analytical Method E200.8). Field measurements for dissolved oxygen (DO), oxidation reduction potential (ORP), temperature and pH were collected from these wells to monitor the effectiveness of the ozone microsparging system. Measurements were collected after at least one well-casing volume was purged from each well. Although not required by the NCRWQCB, field measurements for DO, ORP, temperature and pH were measured in all monitoring wells sampled for this event.

Bromate and hexachrome were not detected. Bromide was detected in the samples collected from MW-2, MW-6, MW-15, MW-16 and MW-18 at concentrations ranging from 0.62 milligrams per liter (mg/l) in MW-16 to 1.4 mg/l in MW-15. Molybdenum was detected in MW-2, MW-6, MW-15, MW-16, MW-17 and MW-18 at concentrations ranging from 0.61 µg/l (MW-15) to 1.7 µg/l (MW-2 and MW-17). Selenium was detected in MW-2, MW-15 and MW-16 at 0.54 µg/l, 0.96 µg/l and 1.7 µg/l, respectively. None of the dissolved metal concentrations detected to date exceed their respective Water Quality Objectives (WQO; Table 4).

Analytical results for inorganic anions and dissolved metals are presented in Table 4. The results of the analyses of the samples will be electronically submitted to the State GeoTracker Internet Database. A complete copy of the analytical laboratory report is in Appendix B.

The locations of the sparge wells and trench system are shown on Figure 4. DO, ORP, temperature and pH field measurements are provided in Table 5. Ozone system Operation and Maintenance (O&M) comments are presented in Table 6, and O&M Logs are in Appendix C.

DISCUSSION

Groundwater Flow/Gradient
Groundwater-flow direction at the site continues to be to the southwest, ranging from S47°W to S78°W, with a gradient ranging from approximately 0.036 ft/ft to 0.1 ft/ft. Comparison of the potentiometric-surface elevations previously measured in paired wells MW-7/MW-14 and MW-10/MW-13 shows that a downward hydraulic gradient is present at these locations.

- The head differences between deep well MW-13 and shallow-water-table well MW-10 were as follows: -0.08 ft on May 23, 2002; -0.04 ft on August 27, 2002; -0.06 ft on November 27, 2002; -0.07 ft on February 11, 2003; -0.07 ft on May 28, 2003; -0.05 ft on August 26, 2003; -0.03 ft on November 25, 2003; -0.15 ft on February 26, 2004; -0.86 ft on May 27, 2004; -0.07 ft on August 26-27, 2004; +0.1 ft on March 30, 2005; -0.07 ft on June 22, 2005; 0.00 ft on September 30, 2005; and -0.94 ft on December 29, 2005.
- The head difference between deep well MW-14 and shallow-water-table well MW-7 were as follows: -5.80 ft on June 14, 2002; -3.81 ft on August 27, 2002; -4.08 ft on November 27, 2002; -4.67 ft on February 11, 2003; -4.20 ft on May 28, 2003; -3.81 ft on August 26, 2003; -3.77 ft on November 25, 2003; -3.58 ft on February 26, 2004; -3.7 ft on May 27, 2004; -2.98 ft on August 26-27, 2004; -3.85 ft on March 30, 2005; -3.16 ft on June 22, 2005; -3.76 ft on September 30, 2005; and -4.82 on December 29, 2005.

Groundwater Quality

The lateral extent of the TPHg, benzene and MTBE plumes in groundwater are indicated on Figures 5, 6 and 7, respectively. These figures show that the FHC plume in groundwater forms two lobes: one extending toward the west from the location of the former USTs and pump island (northwest plume), and one extending southwest from the duck pond (southwest plume). The southwest plume is the largest of the two plumes; overall, the greatest FHC concentrations have been detected in the northwest plume. Groundwater quality in the northwest plume is monitored by wells MW-1, MW-2, MW-5, MW-7, MW-9 and MW-14 through MW-17. Groundwater quality in the southwest plume is monitored by wells MW-6, MW-8, MW-10, MW-11, MW-12, MW-13 and MW-18.

Monitoring Well Groundwater Samples

In the existing monitoring wells, elevated TPHg, BTEX and MTBE concentrations have been detected in MW-2, MW-6, MW-10 and MW-15 through MW-18. The maximum TPHg, benzene and MTBE concentrations detected to date in these wells are 98,000 µg/l (MW-15, December 2005), 17,000 µg/l (MW-15, December 2005) and 63,000 µg/l (MW-16, September 2005). Historically, the highest concentrations of TPHg, benzene and MTBE were detected in destroyed monitoring well MW-3 at 130,000 µg/l (January 2000), 38,000 µg/l (January 2000) and 690,000 µg/l (May 2000), respectively.

To date, non-detectable or minor concentrations of FHCs have been detected in MW-1, MW-5, MW-8, MW-9, MW-11, and MW-12. Non-detectable or minor concentrations of TPHg and/or BTEX components, but relatively high concentrations of MTBE, have been detected in wells MW-7, MW-10, MW-13, MW-14 and MW-17.

TBA was detected in destroyed well MW-3 at 50,000 µg/l in January 2000. In the existing monitoring wells, TBA has been detected in MW-2, MW-6, MW-10, MW-13 and MW-15 through MW-18 at a maximum concentration of 16,000 µg/l (MW-16, March 2005). For the December 2005 event, TBA was not detected in any of the wells. However, the detection limit for TBA for the December 2005 sampling event ranged from ND<5.0 µg/l to ND<25,000 µg/l.

Shallow And Deep Paired Wells

In samples from paired shallow well MW-10 and deep well MW-13 from May 2002 to September 2005, the MTBE concentration has been lower in MW-13. MTBE concentrations in MW-13 typically are about an order of magnitude lower than the concentrations in MW-10. MW-10 and MW-13 are sampled on a semiannual basis.

In samples from the paired shallow well MW-7 and deep well MW-14, from November 2002 to September 2005, the MTBE concentration has been lower in the shallow well (MW-7). The MTBE concentration in shallow well MW-7 has declined from 2400 µg/l in December 2000 to ND in August 2004 through September 2005. In deep well MW-14, the MTBE concentration has declined from 460 µg/l in May and August 2003 to 94 µg/l in September 2005. MW-7 and MW-14 are sampled on a semiannual basis.

MTBE

Historically, isoconcentration maps of the FHC plume have indicated that the MTBE portion of the plume within both lobes had migrated the farthest from the source of the release. The maximum extent of the MTBE plume in the southwest lobe is in the vicinity of the MW-10/MW-13 well pair; MTBE concentrations in these wells fluctuate between monitoring events.

Comparison of MTBE concentrations in the November 2002 through December 2005 sampling events shows that the down-gradient extent of the northwest lobe has retreated from near MW-9 in November 2002 and February 2003, to east of MW-7, which was ND for the third consecutive time in September 2005. Previously, MTBE concentrations in MW-7 had been as high as 2400 µg/l (December 2000). Residual concentrations of MTBE remain in groundwater in shallow bedrock at the location of MW-14 (94 µg/l in September 2005).

Water-well and Surface-water Samples

To date, FHCs have not been detected in water samples collected from water-supply well DW-1 servicing the site, the well pond (WP-1) next to DW-1, water-supply wells LHW-1/LHW-2 servicing the Ledford House Restaurant and the Ledford House pond.

MTBE has been detected in water samples collected from the duck pond. Generally, the duck pond has been sampled quarterly since September 1999. Historically, MTBE detections in the duck pond have ranged from 14 µg/l (September 1999) to 420 µg/l (May 2000). Additionally, relatively low concentrations of TPHg and BTEX components were occasionally detected in the duck pond. Following the August 2003 over-excavation of a portion of the duck pond and the October 2003 installation of a High Density Polyethylene (HDPE) liner in the duck pond, MTBE and other FHC concentrations have not been detected.

MTBE and other FHCs have not been detected in surface water samples collected from the northwest drainage (sample locations SW-3 and SW-4). Sample location SW-3 has not been sampled since February 2003. Sample location SW-4 (Figures 2, 5, 6 and 7) is located in the

drainage area just beyond the apparent western extent of the northwest lobe of the MTBE groundwater plume.

MTBE has been detected in surface water samples collected from the southwest drainage (sample locations SW-1 and SW-2). Sample location SW-2 has not been sampled since February 2003. Sample location SW-1 (Figures 2, 5, 6 and 7) is located in the drainage about 80 ft from the apparent southwestern limit of the southwest lobe of the MTBE groundwater plume. MTBE at concentrations up to 62 µg/l (January 2002) have been detected in SW-1. In December 2005, MTBE was detected at 4.4 µg/l in SW-1.

Ozone Microsparging Remediation Evaluation

Overall, there has been an increase in FHC concentrations in groundwater following startup of the ozone system. This probably represents mobilization of FHCs previously adsorbed to soil below the water table as a result of the injection of ozone and oxygen to groundwater. Additionally, high watertable levels in December 2005 may have contributed to the increase in FHC concentrations detected in December 2005.

Remediation Trench RT1

Comparison of pre-ozone microsparging (August 2004 sampling event) TPHg, benzene and MTBE concentrations with those from the December 2005 sampling event show that in the area of RT1 (northwest plume), MTBE concentrations in MW-2 (down-gradient from RT1) have decreased since August 2004; TPHg and benzene have fluctuated significantly between sampling events. TPHg, benzene and MTBE concentrations increased significantly in MW-15 (cross-gradient from RT1 and down-gradient from T1SP-8) and in MW-16, which is up-gradient from RT1 and down-gradient from the ozone system adjacent to the east side of the former service station building in the location of the former USTs and dispenser island.

Remediation Trench RT2

In the area of RT2 (southwest plume), benzene concentrations in MW-6 (down-gradient from RT2) have decreased since August 2004; TPHg and MTBE concentrations in MW-6 have almost doubled. In MW-18 (up-gradient from RT2 and down gradient from the duck pond), TPHg and benzene concentrations have decreased significantly since August 2004; MTBE concentrations fluctuate between events.

Former UST Field and Dispenser Island System

MTBE concentrations in MW-17, which was installed in the location of the former dispenser island within the area over-excavated in December 2000, have decreased from the pre-ozone microsparging concentration of 250 µg/l (August 2004) to 54 µg/l in December 2005. TPHg and BTEX have not been detected in this well.

Anions & Metals

Comparison of the inorganic anions and dissolved metals analytical results from the August 2004 pre-ozone microsparging sampling event with those from subsequent sampling events show that, to date, ozone injection has not significantly mobilized these analytes in groundwater (Table 4).

Dissolved Oxygen

In general, dissolved oxygen (DO) concentrations are moderately higher than those measured in the previous monitoring event. To date, the highest DO concentrations were measured in the un-impacted wells (MW-7, MW-8, MW-9, MW-11 and MW-12) and the two deep wells (MW-13 and MW-14). MW-5 is the only un-impacted well that has low DO concentrations (0.22 ppm, Table 6).

Recommendations

Groundwater monitoring should continue to be performed at the site. The monitoring program should continue be evaluated with respect to minimizing the sampling frequency and/or laboratory analyses of selected sampling locations. The ozone microsparging systems should continue to be inspected on a monthly basis and during sampling events.

March 2006 Sampling Event

For the March 2006 event, which is an annual event, groundwater samples should be collected from all of the onsite and offsite monitoring wells, site water-supply well (DW-1), surface water sample locations SW-1 and SW-4 and the duck pond (DP). The collection of water samples from the water-supply wells servicing the Ledford House Restaurant (LHW-1/LHW-2) should be discontinued because FHCs have not been detected in these wells since sampling began in May 2000 and in sentinel well MW-12, FHC concentrations have been non-detect except for a one-time detection of benzene, ethylbenzene, and xylenes at 0.57 μg/l, 0.63 μ/l, and 1.5 μ/l, respectively, in May 2004.

Samples collected from MW-2, MW-6, MW-10, MW-13, MW-15, MW-16, MW-18 and DW-1 should be analyzed for TPHg/BTEX by Analytical Methods SW8021B/8015Cm and for MTBE and other gasoline oxygenates by Analytical Method SW8260B. Samples collected from MW-1, MW-5, MW-7, MW-8, MW-9, MW-11, MW-12, MW-14, MW-17, DP, SW-1 and SW-4 should be analyzed for fuel oxygenates by Analytical Method SW8260B.

Groundwater samples from wells MW-2, MW-6 and MW-15 through MW-18 should be analyzed for bromide, bromate, hexachrome, vanadium, selenium and molybdenum by Analytical Methods E300.1/E218.6/E200.8. Field measurements for DO, ORP, temperature and pH should also be taken in these wells.

Destruction of MW-8 And MW-12

As reported in EC&A's January 26, 2006 report of the September 2005 sampling event, the owners of the neighboring property have requested that the NCRWQCB consider the abandonment of MW-8 and MW-12. In the January 26, 2006 report, EC&A recommended collecting groundwater samples from MW-8 and MW-12 for at least one more sampling event because of concerns about the stability of the perimeter of the southwestern lobe of the MTBE plume. As indicated above, samples will be

collected from these wells in March 2006 at seasonally high water table levels when the migration of MTBE in groundwater is expected to be at its maximum. Assuming the analytical results from the March 2006 event confirm the stability of the MTBE plume, MW-8 and MW-12 should not be abandoned until the ground surface is dry enough to minimize any adverse impacts to the ground surface from the drill rig.

Schedule
The next groundwater sampling event is for March 2006.

Limitations
The conclusions presented in this report are professional opinions based on the data presented, including data generated by others. Whereas EC&A does not guarantee the accuracy of information supplied by third parties, we reserve the right to use this information in formulating our professional opinions. They are intended only for the indicated purpose and project site. Conclusions and recommendations presented herein apply to site conditions existing at the time of our study. Changes in the conditions of the site property can occur with time because of natural processes or the works of man on the site or adjacent properties. Changes in applicable standards can also occur as the result of legislation or from the broadening of knowledge. Accordingly, the findings of this report may be invalidated, wholly or in part, by changes beyond our control.

Thank you for allowing EC&A to provide continued environmental consulting services for you. Please call John Calomiris, EC&A project manager, if you have any questions.

Sincerely,

Etta Jon VandenBosch
Environmental Scientist

Richard Ely, PG #4137
Senior Geologist

PROFESSIONAL GEOLOGIST
Richard W. Ely
No. 4137
STATE OF CALIFORNIA

Attachments: Figure 1 - Site Location Map
Figure 2 - Site Plan
Figure 3 - Groundwater Elevation Map, 29 December 2005
Figure 4 - Remediation Trench, Sparge Point, and Recent Monitoring Well Locations
Figure 5 - Isoconcentration Map of TPHg in Groundwater, 29 December 2005
Figure 6 - Isoconcentration Map of Benzene in Groundwater, 29 December 2005
Figure 7 - Isoconcentration Map of MTBE in Groundwater, 29 December 2005

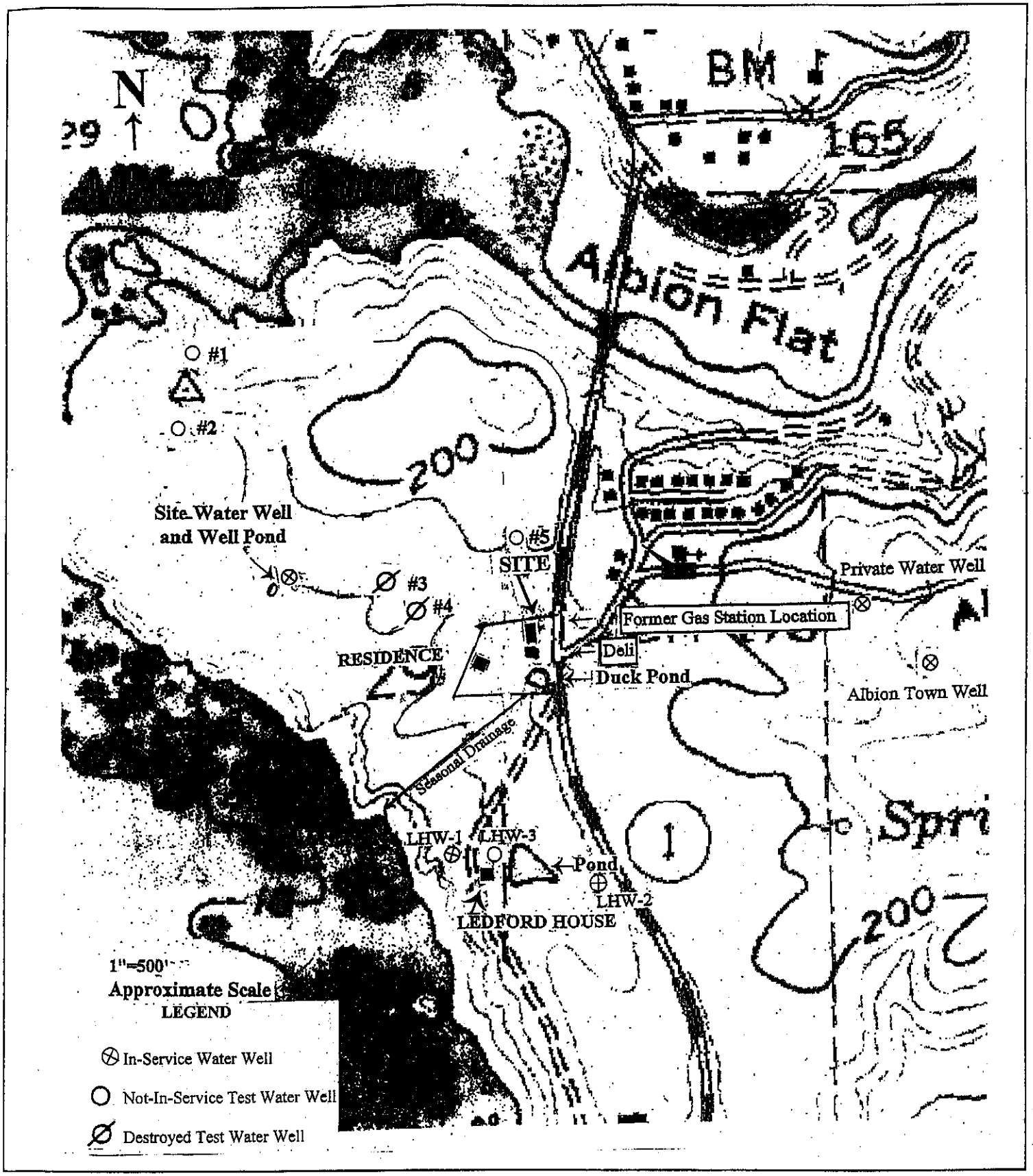
Table 1 - Groundwater Elevation Data
Table 2 - Analytical Results - Groundwater Samples from Monitoring Wells: Fuel Hydrocarbons, Oxygenates and Lead Scavengers

Table 3 - Analytical Results - Groundwater Samples from Water-supply Wells, Test Wells and Surface Water
Table 4 - Analytical Results - Groundwater Samples from Monitoring Wells: Inorganic Anions and Dissolved Metals
Table 5 - Monitoring Well Groundwater Results for Dissolved Oxygen, Oxidation Reduction Potential, Temperature and pH
Table 6 - Ozone System Operations and Maintenance Log

Appendix A - Groundwater Field Logs
Appendix B - Laboratory Analytical Report
Appendix C - O&M Logs

cc: Mr. Craig Hunt, North Coast Regional Water Quality Control Board
Mr. George Hynek, Mendocino County Environmental Health Department
Mr. Paul Hoffey, Erler & Kalinowski, Inc.
Bruce & Carol Smith

0302\QMR Dec05

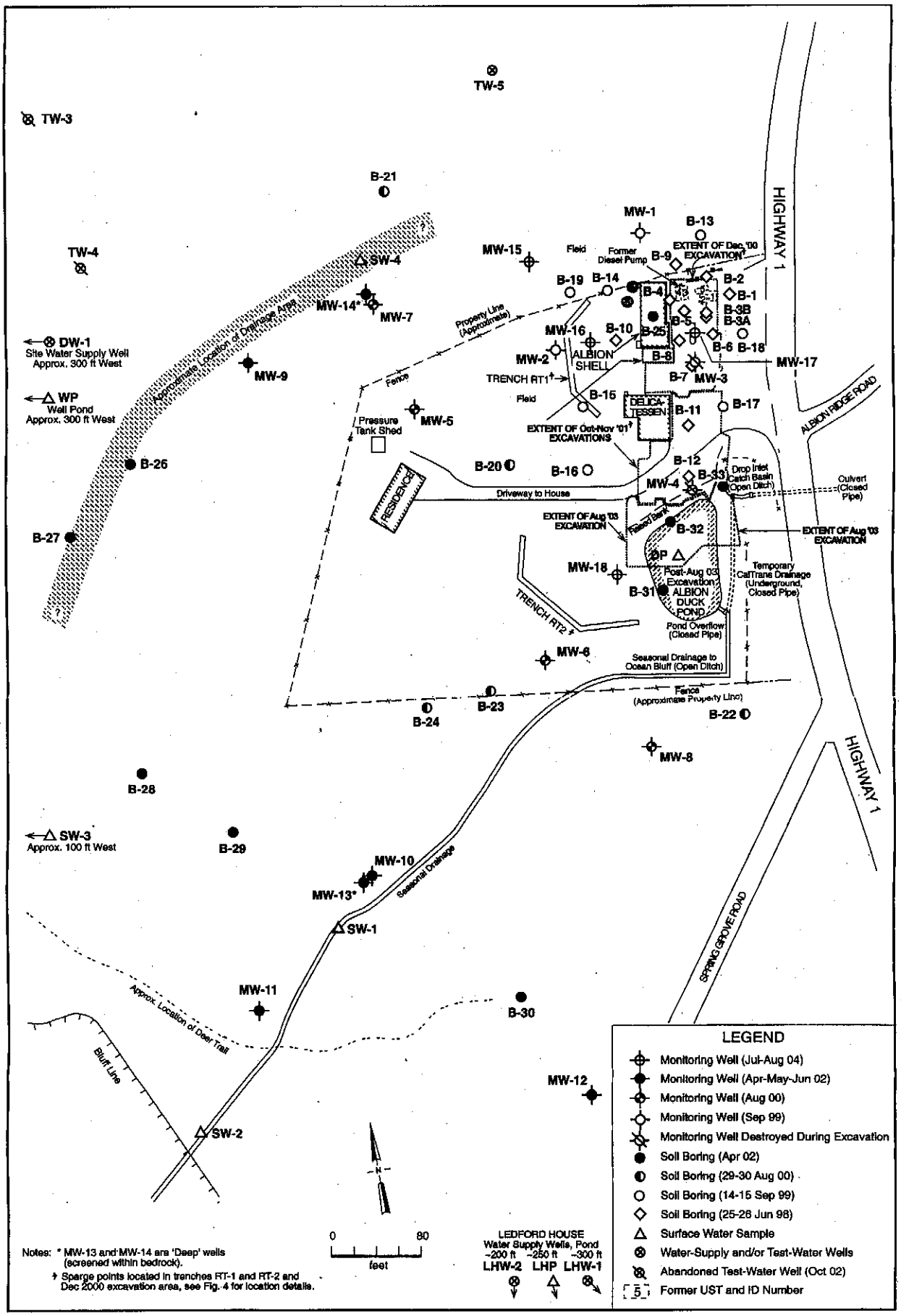


EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

Site Location Map
Former Albion Shell
3300 N. Highway 1
Albion, California

FIGURE
1

JOB NUMBER: 0302,001.97 REVIEWED BY: J. Calomiris Date: January 2004 REVISED DATE:



Notes: * MW-13 and MW-14 are 'Deep' wells (screened within bedrock).
† Sparge points located in trenches RT-1 and RT-2 and Dec 2000 excavation area, see Fig. 4 for location details.

FIGURE 2
SHEET NO. 1 of 1

(TRACE #340/RG/20Apr05)

EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

SITE PLAN
Former Albion Shell
3300 N. Highway 1
Albion, California

FIGURE 2

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE	SHEET NO.
0302,001.97	EC&A, E.J. VandenBosch	February 2002	April 2005	1 of 1

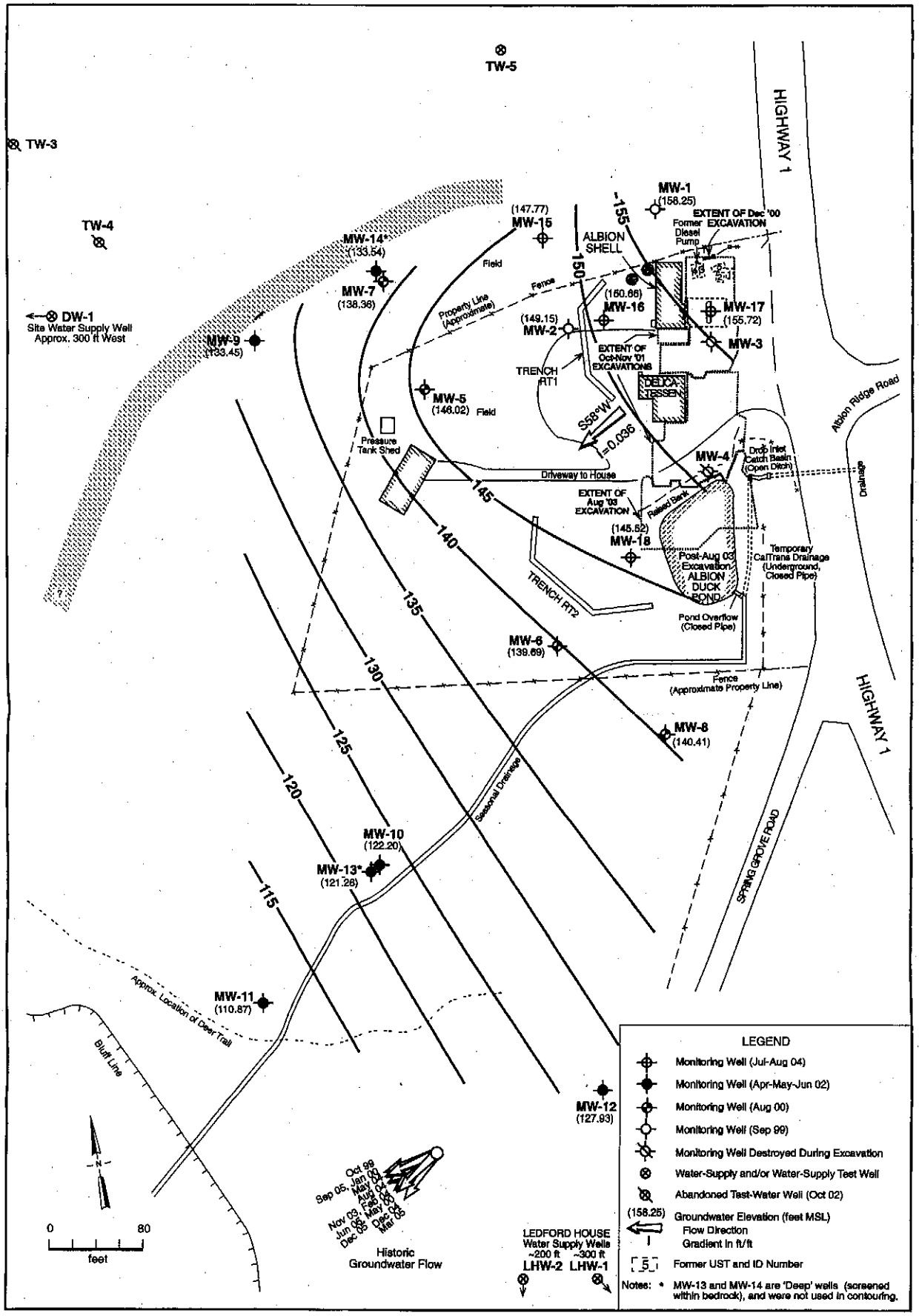


FIGURE 3

SHEET NO. 1 of 1

(TRACE #34KRO/13F-8D06)

EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

GROUNDWATER ELEVATION MAP,
29 December 2005
Former Albion Shell
3300 N. Highway 1
Albion, California

FIGURE 3

JOB NUMBER	0302,001.97	REVIEWED BY	EC&A, E.J. VandenBosch	DATE	February 2002	REVISED DATE	February 2006	SHEET NO.	1 of 1

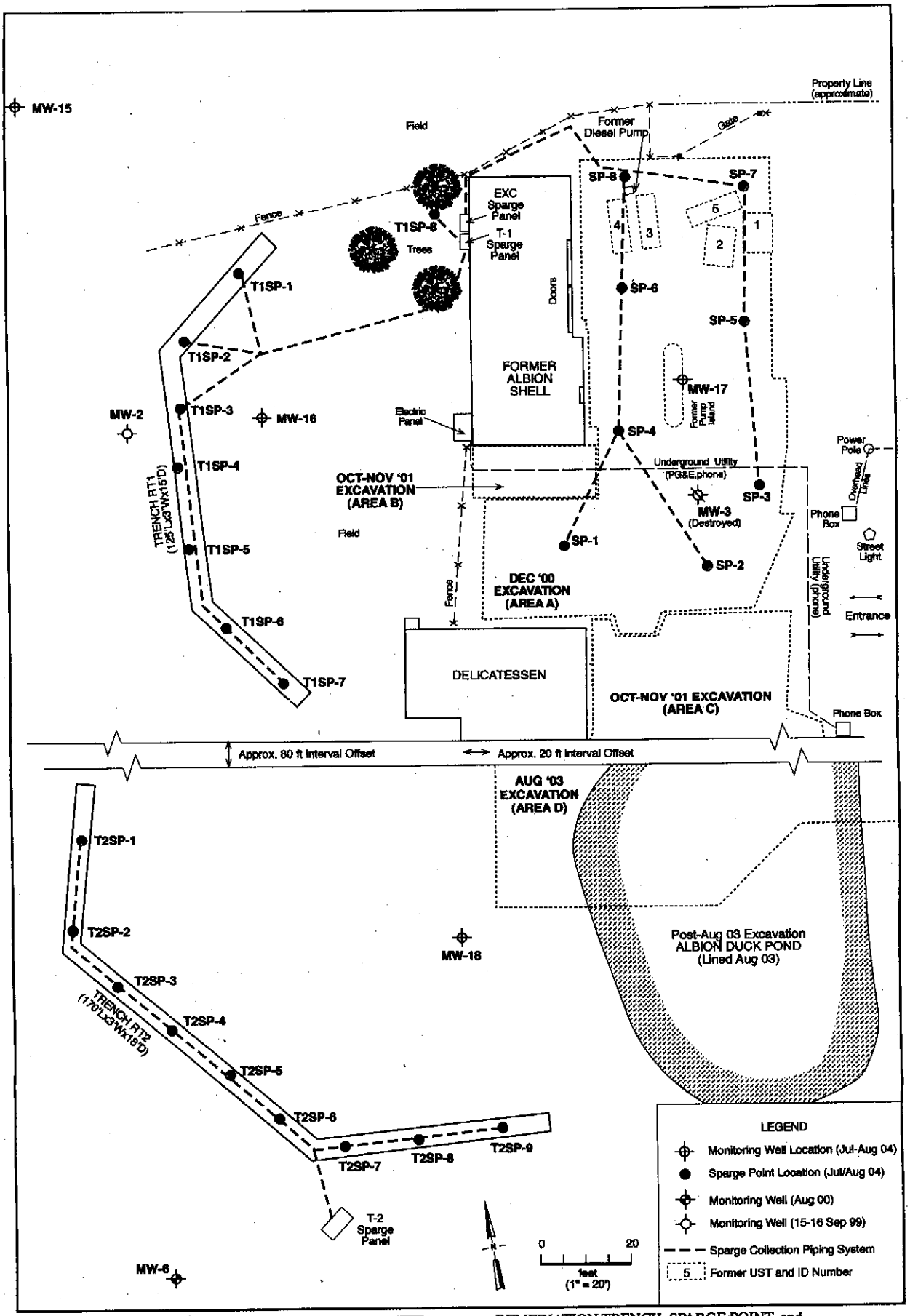


FIGURE 4

SHEET NO. 1 of 1

EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

REMEDIATION TRENCH, SPARGE POINT, and RECENT MONITORING WELL LOCATIONS

Former Albion Shell
3300 N. Highway 1
Albion, California

FIGURE 4

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE	SHEET NO.
0302.001.97	EC&A, John Calomiris	February 2002	January 2005	1 of 1

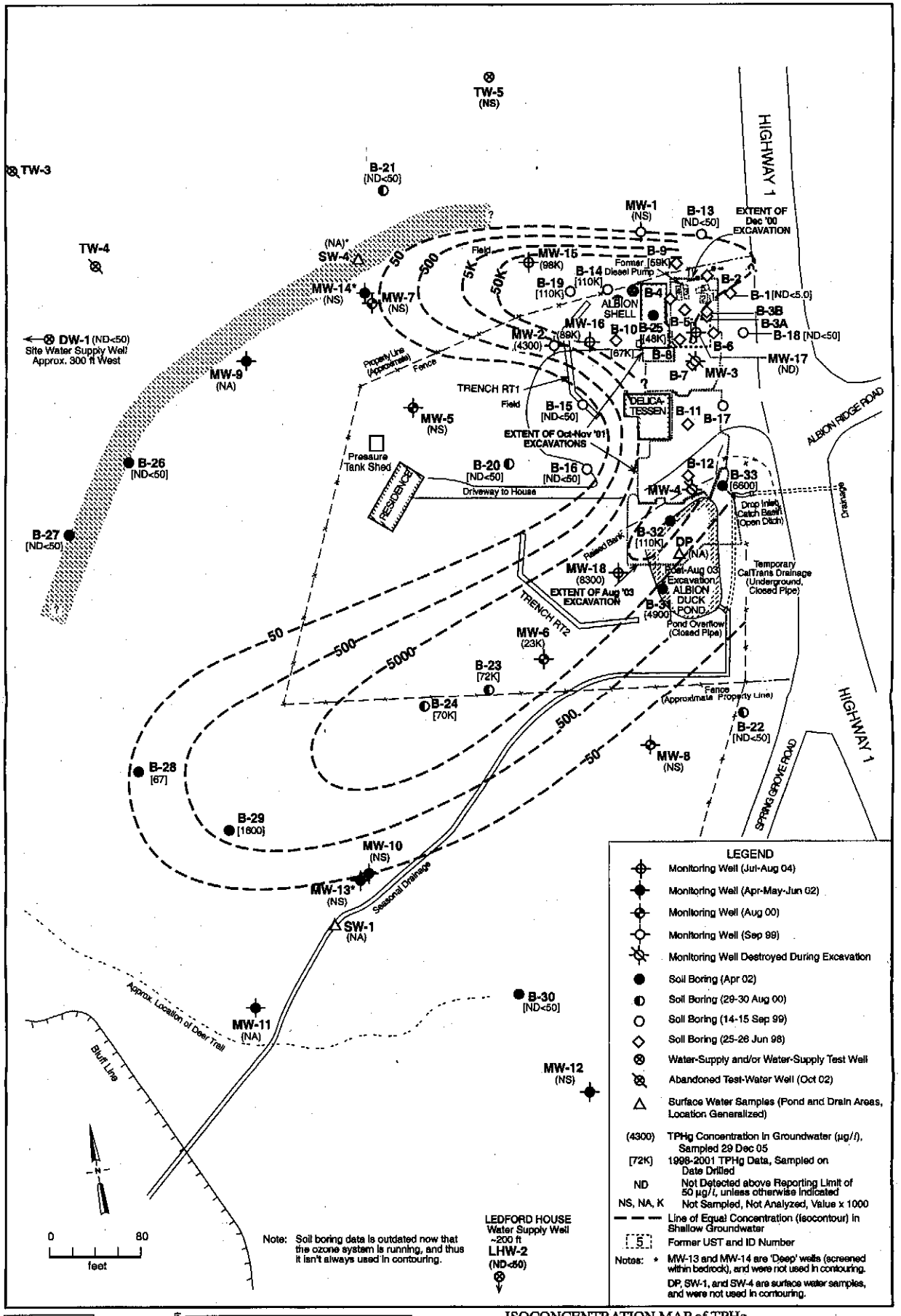


FIGURE 5
SHEET NO. 1 of 1

(TRACE #340/RG/12F#006)

EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

ISOCONCENTRATION MAP of TPHg in GROUNDWATER, 29 December 2005

Former Albion Shell
3300 N. Highway 1
Albion, California

FIGURE 5

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE	SHEET NO.
0302,001.97	EC&A, E.J. VandenBosch	February 2002	February 2006	1 of 1

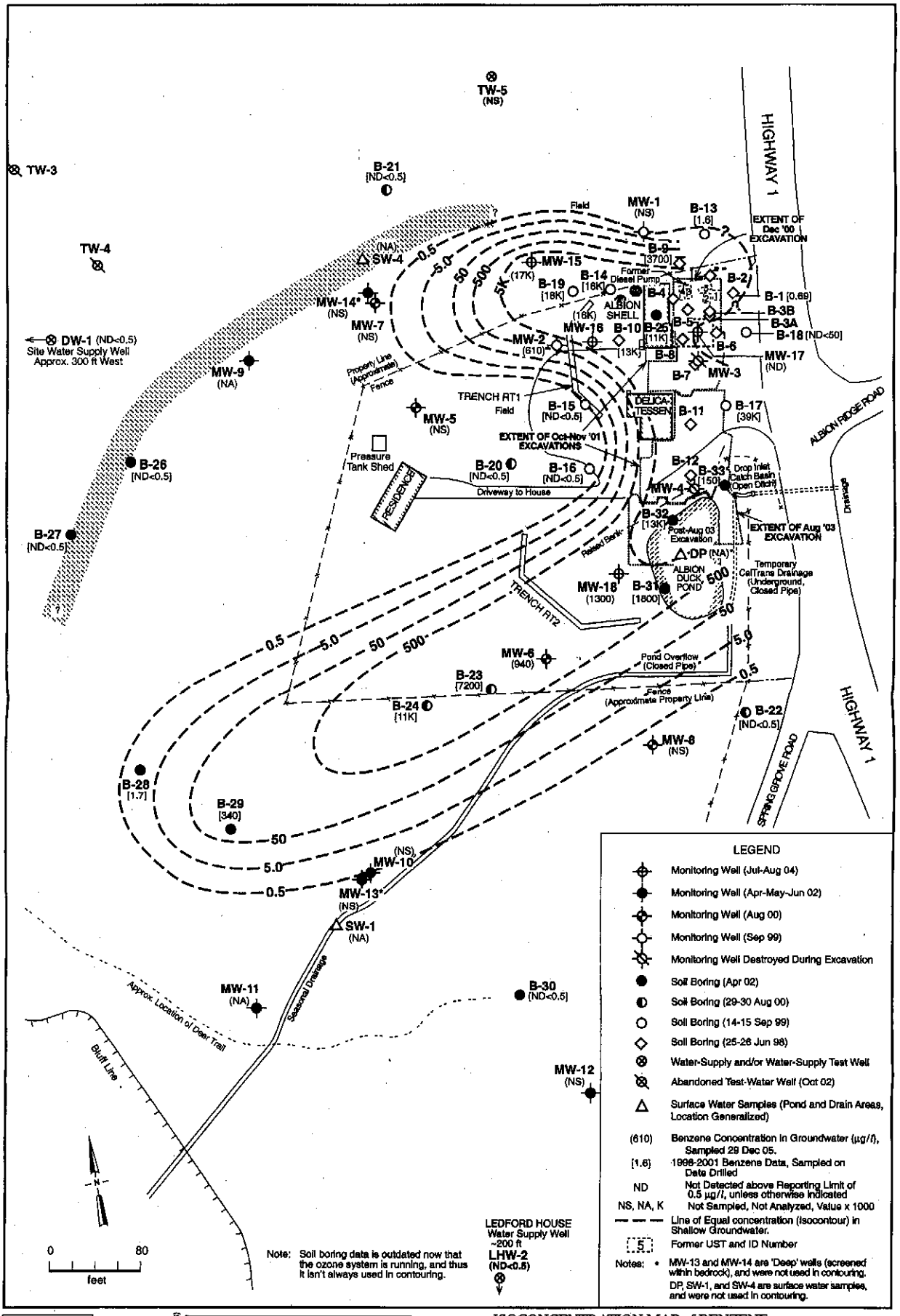


FIGURE 6
SHEET NO. 1 of 1

(TRACE #340/RG/12F9006)

EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

ISOCONCENTRATION MAP of BENZENE in GROUNDWATER, 29 December 2005
Former Albion Shell
3300 N. Highway 1
Albion, California

FIGURE 6

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE	SHEET NO.
0302,001.97	EC&A, E.J. VandenBosch	February 2002	February 2006	1 of 1

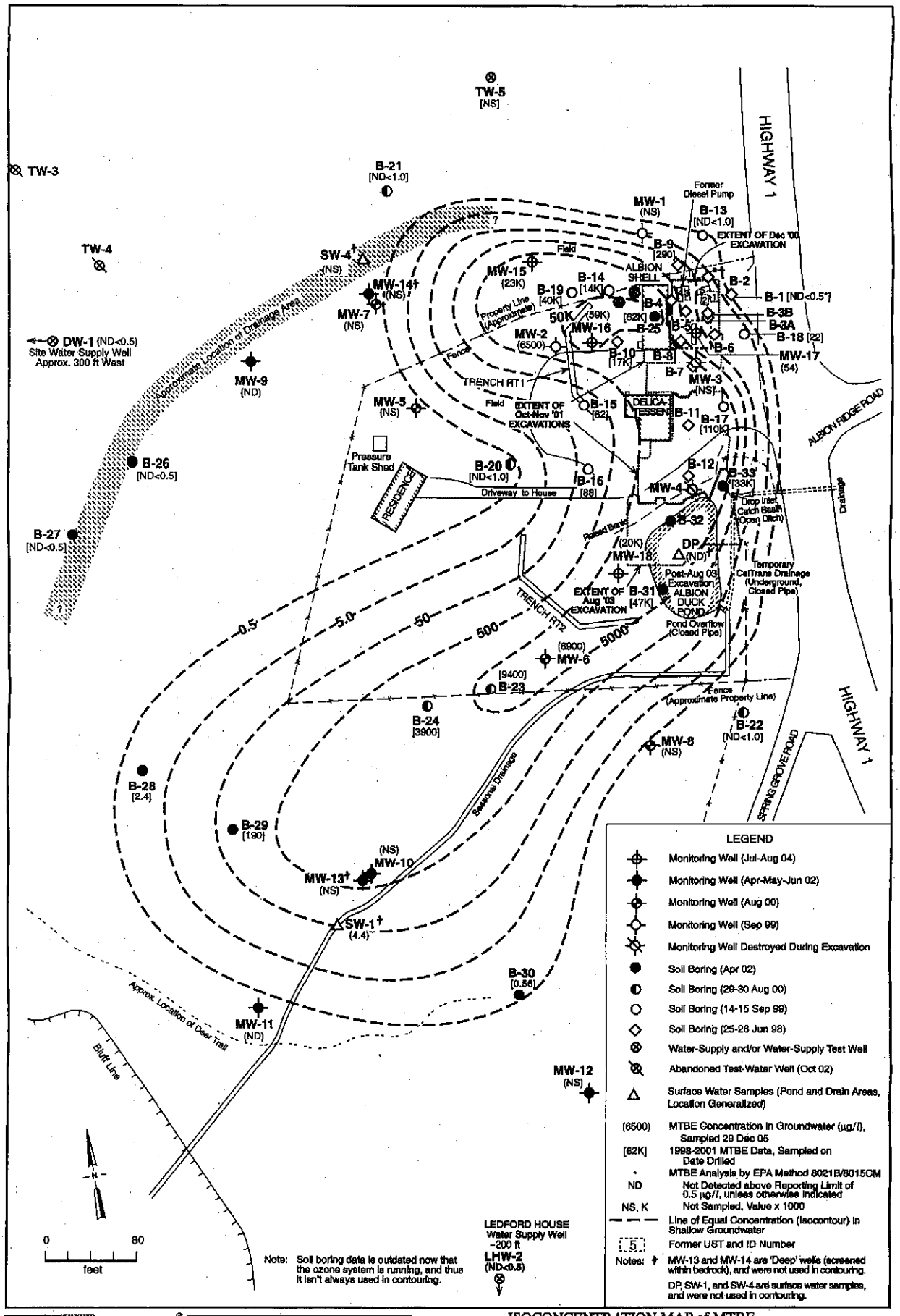


FIGURE 7
SHEET NO. 1 of 1

(TRACE #3A0FG/15F6606)

EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

ISOCONCENTRATION MAP of MTBE in GROUNDWATER, 29 December 2005

Former Albion Shell
3300 N. Highway 1
Albion, California

FIGURE 7

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE	SHEET NO.
0302,001.97	EC&A, E.J. VandenBosch	February 2002	February 2006	1 of 1

Table 1. Groundwater Elevation Data
Former Albion Shell, 3300 N. Highway 1, Albion, California

Date	Well ID	Screened Interval	TOC Elevation (feet above MSL)	Depth to Water (feet below TOC)	Groundwater Elevation (feet above MSL)
10/11/99	MW-1	4'-10'	159.35	11.30	148.05
	MW-2	5'-15'	149.89	9.89	140.00
	MW-3	4'-14'	156.10	7.09	149.01
	MW-4	4'-14'	149.16	7.00	142.16
Gradient = S77°W, 0.08 ft/ft					
01/27/00	MW-1	4'-10'	159.35	7.95	151.40
	MW-2	5'-15'	149.89	6.04	143.85
	MW-3	4'-14'	156.10	3.10	153.00
	MW-4	4'-14'	149.16	3.78	145.38
Gradient = S75°W, 0.09 ft/ft					
05/25/00	MW-1	4'-10'	159.35	3.44	155.91
	MW-2	5'-15'	149.89	6.65	143.24
	MW-3	4'-14'	156.10	3.93	152.17
	MW-4	4'-14'	149.16	4.80	144.36
Gradient = S57°W, 0.10 ft/ft					
09/13/00	MW-1	4'-10'	159.35	10.30	149.05
	MW-2	5'-15'	149.89	8.74	141.15
	MW-3	4'-14'	156.10	6.46	149.64
	MW-4	4'-14'	149.16	6.60	142.56
	MW-5	5'-15'	146.09	8.03	138.06
	MW-6	5'-15'	142.19	11.32	130.87
	MW-7	5'-15'	139.59	8.58	131.01
	MW-8	5'-15'	145.69	17.21	128.48
Gradient = S71°W, 0.068 ft/ft					
12/06-07/00	MW-1	4'-10'	159.35	9.71	149.64
	MW-2	5'-15'	149.89	9.12	140.77
	MW-3	4'-14'	156.10	5.79	150.31
	MW-4	4'-14'	149.16	4.88	144.28

Table 1. Groundwater Elevation Data
Former Albion Shell, 3300 N. Highway 1, Albion, California

Date	Well ID	Screened Interval	TOC Elevation (feet above MSL)	Depth to Water (feet below TOC)	Groundwater Elevation (feet above MSL)
12/06-07/00 continued	MW-5	5'-15'	146.09	9.28	136.81
	MW-6	5'-15'	142.19	9.35	132.84
	MW-7	5'-15'	139.59	7.51	132.08
	MW-8	5'-15'	145.69	17.59	128.10
Gradient = S76°W, 0.061 ft/ft					
04/16/01	MW-1	4'-10'	159.35	6.25	153.10
	MW-2	5'-15'	149.89	5.53	144.36
	MW-3 *	---	---	---	---
	MW-4	4'-14'	149.16	5.10	144.06
	MW-5	5'-15'	146.09	10.17	135.92
	MW-6	5'-15'	142.19	7.84	134.35
	MW-7	5'-15'	139.59	5.06	134.53
	MW-8	5'-15'	145.69	11.84	133.85
Gradient = S57°W, 0.063 ft/ft					
07/17/01	MW-1	4'-10'	159.35	9.22	150.13
	MW-2	5'-15'	149.89	9.04	140.85
	MW-3 *	---	---	---	---
	MW-4	4'-14'	149.16	5.56	143.60
	MW-5	5'-15'	146.09	9.81	136.28
	MW-6	5'-15'	142.19	10.06	132.13
	MW-7	5'-15'	139.59	7.58	132.01
	MW-8	5'-15'	145.69	15.42	130.27
Gradient = S66°W, 0.052 ft/ft					
10/30/01	MW-1	4'-10'	159.35	12.81	146.54
	MW-2	5'-15'	149.89	10.76	139.13
	MW-4 **	---	---	6.60*	142.56*
	MW-5	5'-15'	146.09	10.43	135.66
	MW-6	5'-15'	142.19	11.88	130.31

Table 1. Groundwater Elevation Data
Former Albion Shell, 3300 N. Highway 1, Albion, California

Date	Well ID	Screened Interval	TOC Elevation (feet above MSL)	Depth to Water (feet below TOC)	Groundwater Elevation (feet above MSL)
10/30/01 continued	MW-7	5'-15'	139.59	10.07	129.52
	MW-8	5'-15'	145.69	Dry	(<128)
Gradient = S69°W, 0.070 ft/ft					
01/30/02	MW-1	4'-10'	159.35	4.39	154.96
	MW-2	5'-15'	149.89	3.78	146.11
	MW-5	5'-15'	146.09	6.32	139.77
	MW-6	5'-15'	142.19	6.21	135.98
	MW-7	5'-15'	139.59	4.23	135.36
	MW-8	5'-15'	145.69	10.96	134.73
Gradient = S47°W, 0.09 ft/ft					
05/23/02	MW-1	4'-10'	161.80	6.53	155.27
	MW-2	5'-15'	152.34	6.88	145.46
	MW-5	5'-15'	148.54	10.25	138.29
	MW-6	5'-15'	144.64	8.25	136.39
	MW-7	5'-15'	142.10	6.04	136.06
	MW-8	5'-15'	148.14	13.65	134.49
	MW-9	5'-20'	136.42	6.71	129.71
	MW-10	5'-15'	127.13	5.98	121.15
	MW-11	4'-9'	115.71	6.36	109.35
	MW-12	5'-20'	136.36	9.19	127.17
	MW-13	19'-24'	126.71	5.64	121.07
Gradient = S66°W, 0.07 ft/ft					
06/14/02	MW-7	5'-15'	142.10	7.19	134.91
	MW-14	30'-34.5'	141.67	12.56	129.11
08/27/02	MW-1	4'-10'	161.80	10.81	150.99
	MW-2	5'-15'	152.34	9.91	142.43
	MW-5	5'-15'	148.54	9.57	138.97
	MW-6	5'-15'	144.64	10.98	133.66
	MW-7	5'-15'	142.10	9.75	132.35

Table 1. Groundwater Elevation Data
Former Albion Shell, 3300 N. Highway 1, Albion, California

Date	Well ID	Screened Interval	TOC Elevation (feet above MSL)	Depth to Water (feet below TOC)	Groundwater Elevation (feet above MSL)
08/27/02 continued	MW-8	5'-15'	148.14	16.64	131.50
	MW-9	5'-20'	136.42	9.39	127.03
	MW-10	5'-15'	127.13	8.53	118.60
	MW-11	4'-9'	115.71	9.48	106.23
	MW-12	5'-20'	136.36	13.26	123.10
	MW-13	19'-24'	126.71	8.15	118.56
	MW-14	30'-34.5'	141.67	13.13	128.54
Gradient = S75°W, 0.06 ft/ft					
11/27/02	MW-1	4'-10'	161.80	13.29	148.51
	MW-2	5'-15'	152.34	10.15	142.19
	MW-5	5'-15'	148.54	12.63	135.91
	MW-6	5'-15'	144.64	8.89	135.75
	MW-7	5'-15'	142.10	10.33	131.77
	MW-8	5'-15'	148.14	17.70	130.44
	MW-9	5'-20'	136.42	10.96	125.46
	MW-10	5'-15'	127.13	7.82	119.31
	MW-11	4'-9'	115.71	9.62	106.09
	MW-12	5'-20'	136.36	14.67	121.69
	MW-13	19'-24'	126.71	7.46	119.25
	MW-14	30'-34.5'	141.67	13.98	127.69
Gradient = S72°W, 0.05 ft/ft					
02/11/03	MW-1	4'-10'	161.80	5.11	156.69
	MW-2	5'-15'	152.34	3.85	148.49
	MW-5	5'-15'	148.54	10.36	138.18
	MW-6	5'-15'	144.64	6.17	138.47
	MW-7	5'-15'	142.10	4.47	137.63
	MW-8	5'-15'	148.14	11.45	136.69
	MW-9	5'-20'	136.42	4.61	131.81
	MW-10	5'-15'	127.13	5.30	121.83

Table 1. Groundwater Elevation Data
Former Albion Shell, 3300 N. Highway 1, Albion, California

Date	Well ID	Screened Interval	TOC Elevation (feet above MSL)	Depth to Water (feet below TOC)	Groundwater Elevation (feet above MSL)
02/11/03 continued	MW-11	4'-9'	115.71	5.37	110.34
	MW-12	5'-20'	136.36	6.75	129.61
	MW-13	19'-24'	126.71	4.95	121.76
	MW-14	30'-34.5'	141.67	8.71	132.96
Gradient = S74°W, 0.071 ft/ft					
05/28/03	MW-1	4'-10'	161.80	5.41	156.39
	MW-2	5'-15'	152.34	4.83	147.51
	MW-5	5'-15'	148.54	10.60	137.94
	MW-6	5'-15'	144.64	7.43	137.21
	MW-7	5'-15'	142.10	5.07	137.03
	MW-8	5'-15'	148.14	12.27	135.87
	MW-9	5'-20'	136.42	4.71	131.71
	MW-10	5'-15'	127.13	5.73	121.40
	MW-11	4'-9'	115.71	6.11	109.60
	MW-12	5'-20'	136.36	7.44	128.92
	MW-13	19'-24'	126.71	5.38	121.33
	MW-14	30'-34.5'	141.67	8.84	132.83
Gradient = S78°W, 0.075 ft/ft					
08/26/03	MW-1	4'-10'	161.80	8.56	153.24
	MW-2	5'-15'	152.34	8.22	144.12
	MW-5	5'-15'	148.54	10.54	138.00
	MW-6	5'-15'	144.64	10.91	133.73
	MW-7	5'-15'	142.10	8.26	133.84
	MW-8	5'-15'	148.14	16.07	132.07
	MW-9	5'-20'	136.42	7.83	128.59
	MW-10	5'-15'	127.13	8.18	118.95
	MW-11	4'-9'	115.71	9.08	106.63
	MW-12	5'-20'	136.36	12.43	123.93

Table 1. Groundwater Elevation Data
Former Albion Shell, 3300 N. Highway 1, Albion, California

Date	Well ID	Screened Interval	TOC Elevation (feet above MSL)	Depth to Water (feet below TOC)	Groundwater Elevation (feet above MSL)
08/26/03 continued	MW-13	19'-24'	126.71	7.81	118.90
	MW-14	30'-34.5'	141.67	11.64	130.03
Gradient = S65°W, 0.068 ft/ft					
11/25/03	MW-1	4'-10'	161.80	12.13	149.67
	MW-2	5'-15'	152.34	9.71	142.63
	MW-5	5'-15'	148.54	9.19	139.35
	MW-6	5'-15'	144.64	11.65	132.99
	MW-7	5'-15'	142.10	9.51	132.59
	MW-8	5'-15'	148.14	17.60	130.54
	MW-9	5'-20'	136.42	9.98	126.44
	MW-10	5'-15'	127.13	9.95	117.18
	MW-11	4'-9'	115.71	11.09	104.62
	MW-12	5'-20'	136.36	15.02	121.34
	MW-13	19'-24'	126.71	9.56	117.15
	MW-14	30'-34.5'	141.67	12.85	128.82
Gradient = S68°W, 0.054 ft/ft					
02/26/04	MW-1	4'-10'	161.80	3.32	158.48
	MW-2	5'-15'	152.34	1.71	150.63
	MW-5	5'-15'	148.54	4.87	143.67
	MW-6	5'-15'	144.64	5.01	139.63
	MW-7	5'-15'	142.10	3.85	138.25
	MW-8	5'-15'	148.14	5.70	142.44
	MW-9	5'-20'	136.42	2.78	133.64
	MW-10	5'-15'	127.13	4.93	122.20
	MW-11	4'-9'	115.71	4.68	111.03
	MW-12	5'-20'	136.36	5.40	130.96
	MW-13	19'-24'	126.71	4.36	122.35
	MW-14	30'-34.5'	141.67	7.00	134.67
Gradient = S68°W, 0.072 ft/ft					

Table 1. Groundwater Elevation Data
Former Albion Shell, 3300 N. Highway 1, Albion, California

Date	Well ID	Screened Interval	TOC Elevation (feet above MSL)	Depth to Water (feet below TOC)	Groundwater Elevation (feet above MSL)
05/27/04	MW-1	4'-10'	161.80	6.81	154.99
	MW-2	5'-15'	152.34	6.81	145.53
	MW-5	5'-15'	148.54	11.19	137.35
	MW-6	5'-15'	144.64	9.62	135.02
	MW-7	5'-15'	142.10	6.82	135.28
	MW-8	5'-15'	148.14	NM	--
	MW-9	5'-20'	136.42	5.91	130.51
	MW-10	5'-15'	127.13	6.80	120.33
	MW-11	4'-9'	115.71	6.85	108.86
	MW-12	5'-20'	136.36	9.68	126.68
	MW-13	19'-24'	126.71	5.52	121.19
	MW-14	30'-34.5'	141.67	10.09	131.58
Gradient = S70°W, 0.067 ft/ft					
08/26-27/04	MW-1	4'-10'	161.80	10.91	150.89
	MW-2	5'-15'	152.34	9.43	142.91
	MW-5	5'-15'	148.54	12.92	135.62
	MW-6	5'-15'	144.64	12.17	132.47
	MW-7	5'-15'	142.10	9.96	132.14
	MW-8	5'-15'	148.14	17.28	130.86
	MW-9	5'-20'	136.42	9.66	126.76
	MW-10	5'-15'	127.13	9.16	117.97
	MW-11	4'-9'	115.71	10.24	105.47
	MW-12	5'-20'	136.36	13.96	122.4
	MW-13	19'-24'	126.71	8.81	117.9
	MW-14	30'-34.5'	141.67	12.51	129.16
	MW-15	5'-13'	148.10	7.41	140.69
	MW-16	5'-15'	153.52	7.47	146.05
	MW-17	5'-13'	157.51	5.94	151.57
	MW-18	5'16'	146.64	5.99	140.65
Gradient = S64°W, 0.053 ft/ft					

Table 1. Groundwater Elevation Data
Former Albion Shell, 3300 N. Highway 1, Albion, California

Date	Well ID	Screened Interval	TOC Elevation (feet above MSL)	Depth to Water (feet below TOC)	Groundwater Elevation (feet above MSL)
12/16/04-12/17/04	MW-1	4'-10'	161.80	NM	---
	MW-2	5'-15'	152.34	7.70	144.64
	MW-5	5'-15'	148.54	NM	---
	MW-6	5'-15'	144.64	7.08	137.56
	MW-7	5'-15'	142.10	NM	---
	MW-8	5'-15'	148.14	NM	---
	MW-9	5'-20'	136.42	9.25	127.17
	MW-10	5'-15'	127.13	NM	---
	MW-11	4'-9'	115.71	6.68	109.03
	MW-12	5'-20'	136.36	11.20	125.16
	MW-13	19'-24'	126.71	NM	---
	MW-14	30'-34.5'	141.67	NM	---
	MW-15	5'-13'	148.10	8.40	139.70
	MW-16	5'-15'	153.52	4.74	148.78
	MW-17	5'-13'	157.51	5.96	151.55
	MW-18	5'16'	146.64	3.22	143.42
Gradient = S55°W, 0.062 ft/ft					
03/30/05	MW-1	4'-10'	161.80	3.27	158.53
	MW-2	5'-15'	152.34	1.04	151.30
	MW-5	5'-15'	148.54	4.72	143.82
	MW-6	5'-15'	144.64	6.18	138.46
	MW-7	5'-15'	142.10	3.99	138.11
	MW-8	5'-15'	148.14	7.86	140.28
	MW-9	5'-20'	136.42	4.29	132.13
	MW-10	5'-15'	127.13	5.22	121.91
	MW-11	4'-9'	115.71	4.56	111.15
	MW-12	5'-20'	136.36	7.81	128.55
	MW-13	19'-24'	126.71	4.70	122.01
	MW-14	30'-34.5'	141.67	7.41	134.26
	MW-15	5'-13'	148.10	4.70	143.40

Table 1. Groundwater Elevation Data
Former Albion Shell, 3300 N. Highway 1, Albion, California

Date	Well ID	Screened Interval	TOC Elevation (feet above MSL)	Depth to Water (feet below TOC)	Groundwater Elevation (feet above MSL)
03/30/05 continued	MW-16	5'-15'	153.52	1.50	152.02
	MW-17	5'-13'	157.51	2.01	155.50
	MW-18	5'16'	146.64	2.55	144.09
Gradient = S47°W, 0.068 ft/ft					
06/22/05	MW-1	4'-10'	161.80	5.91	155.89
	MW-2	5'-15'	152.34	2.47	149.87
	MW-5	5'-15'	148.54	10.15	138.39
	MW-6	5'-15'	144.64	7.19	137.45
	MW-7	5'-15'	142.10	4.91	137.19
	MW-8	5'-15'	148.14	11.64	136.50
	MW-9	5'-20'	136.42	5.07	131.35
	MW-10	5'-15'	127.13	5.99	121.14
	MW-11	4'-9'	115.71	5.34	110.37
	MW-12	5'-20'	136.36	6.85	129.51
	MW-13	19'-24'	126.71	5.64	121.07
	MW-14	30'-34.5'	141.67	7.64	134.03
	MW-15	5'-13'	148.10	2.85	145.25
	MW-16	5'-15'	153.52	1.82	151.70
	MW-17	5'-13'	157.51	3.06	154.45
	MW-18	5'16'	146.64	3.35	143.29
Gradient = S56°W, 0.07 ft/ft					
09/30/05	MW-1	4'-10'	161.80	9.27	152.53
	MW-2	5'-15'	152.34	6.70	145.64
	MW-5	5'-15'	148.54	12.73	135.81
	MW-6	5'-15'	144.64	9.86	134.78
	MW-7	5'-15'	142.10	7.47	134.63
	MW-8	5'-15'	148.14	15.28	132.86
	MW-9	5'-20'	136.42	7.76	128.66
	MW-10	5'-15'	127.13	7.50	119.63

Table 1. Groundwater Elevation Data
Former Albion Shell, 3300 N. Highway 1, Albion, California

Date	Well ID	Screened Interval	TOC Elevation (feet above MSL)	Depth to Water (feet below TOC)	Groundwater Elevation (feet above MSL)
09/30/05 continued	MW-11	4'-9'	115.71	7.31	108.40
	MW-12	5'-20'	136.36	11.84	124.52
	MW-13	19'-24'	126.71	7.08	119.63
	MW-14	30'-34.5'	141.67	10.80	130.87
	MW-15	5'-13'	148.10	4.31	143.79
	MW-16	5'-15'	153.52	5.80	147.72
	MW-17	5'-13'	157.51	5.30	152.21
	MW-18	5'16'	146.64	4.34	142.30
Gradient = S78°W, 0.073 ft/ft					
12/29/05	**MW-1**	**4'-10'**	**161.80**	**3.55**	**158.25**
	MW-2	**5'-15'**	**152.34**	**3.19**	**149.15**
	MW-5	**5'-15'**	**148.54**	**2.52**	**146.02**
	MW-6	**5'-15'**	**144.64**	**4.95**	**139.69**
	MW-7	**5'-15'**	**142.10**	**3.74**	**138.36**
	MW-8	**5'-15'**	**148.14**	**7.73**	**140.41**
	MW-9	**5'-20'**	**136.42**	**2.97**	**133.45**
	MW-10	**5'-15'**	**127.13**	**4.93**	**122.20**
	MW-11	**4'-9'**	**115.71**	**4.84**	**110.87**
	MW-12	**5'-20'**	**136.36**	**8.43**	**127.93**
	MW-13	**19'-24'**	**126.71**	**5.45**	**121.26**
	MW-14	**30'-34.5'**	**141.67**	**8.13**	**133.54**
	MW-15	**5'-13'**	**148.10**	**0.33**	**147.77**
	MW-16	**5'-15'**	**153.52**	**2.86**	**150.66**
	MW-17	**5'-13'**	**157.51**	**1.79**	**155.72**
	MW-18	**5'16'**	**146.64**	**1.12**	**145.52**
Gradient = S58°W, 0.036 ft/ft					

Former Albion Shell, 3300 N. Highway 1, Albion, California

Notes:

The tops of the well casings (TOC) were surveyed to establish horizontal location and elevation relative to mean sea level. Wells MW-1, MW-2, MW-3 and MW-4 were surveyed on October 19, 1999 by Richard Seale, a California-licensed surveyor. Wells MW-5, MW-6, MW-7 and MW-8 well casings were surveyed on September 30, 2000 by Richard Seale.

Wells MW-7, MW-9, MW-10, MW-11, MW-12, MW-13 and MW-14 were surveyed on June 27, 2002 by I. L Welty and Associates of Fort Bragg, CA, a California-licensed surveyor. The elevations are based on U.S. Coast & Geodetic Survey benchmark R 147. The elevation of this benchmark was adjusted from 176.23 ft to 178.68 ft for the 2002 survey. The TOC elevations for the older wells were adjusted to this datum. TOC elevations for MW-1, MW-7, MW-8 and MW-9 through MW-14 are approximately 3 ft above grade. These wells are monument wells.

Wells MW-5 and MW-6 were re-surveyed and, MW-15, MW-16, MW-17 and MW-18 were surveyed on December 9, 2004 by Virgil Chavez Land Surveying. The TOC elevations of MW-15, MW-16, MW-17 and MW-18 are based the California

State Coordinate System, Zone 11 (NAD83). The benchmark elevation used for this survey is 142.97 feet (NAVD88). The new elevations of MW-5 (148.12 ft) and MW-6 (144.18 ft)were 0.42 ft and 0.46 ft lower, respectively, than the previous survey results, apparently because a different datum was used. The surveyed elevations of the TOCs for MW-15 through MW-18 have been adjusted lower by 0.44 ft (the average of the changes in the MW-5 and MW-6 elevations).

TOC: Top of well casing
MSL: Mean sea level
*: MW-3 was destroyed during December 2000 over-excavation.
**: MW-4 was destroyed during October 2001 over-excavation. Water level was measured on October 25, 2001, before destruction.
NM: Not measured

Table 2. Analytical Results - Groundwater Samples from Monitoring Wells: Fuel Hydrocarbons, Oxygenates and Lead Scavengers
Former Albion Shell, 3300 N. Highway 1, Albion, California

Well ID	Date Sampled	TPHg µg/l	TPHd µg/l	Benzene µg/l	Toluene µg/l	Ethyl-benzene µg/l	Xylenes µg/l	MTBE µg/l	TBA µg/l	Other Oxygenates µg/l	Lead Scavengers µg/l
MW-1	10/12/99	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0*	NA	NA	ND<1.0
	01/27/00	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<5.0	ND	NA
	05/25/00	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<5.0	ND	NA
	09/14/00	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<5.0	ND	NA
	12/06/00	ND<50	NA	ND<0.5	1.4	ND<0.5	1.9	ND<1.0	ND<5.0	ND	NA
	04/16/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<5.0	ND	NA
	07/18/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<5.0	ND	NA
	10/30/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<5.0	ND	ND<1.0
	01/30/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<5.0	ND	NA
	05/22/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	ND<5.0
	08/28/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	ND<0.5
	02/12/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	ND<0.5
	08/26/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0 (2)	NA	NA	NA
	02/27/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0 (2)	NA	NA	NA
	08/26/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0 (2)	NA	NA	NA
	03/30/05	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0 (2)	NA	NA	NA

Table 2. Analytical Results - Groundwater Samples from Monitoring Wells: Fuel Hydrocarbons, Oxygenates and Lead Scavengers
Former Albion Shell, 3300 N. Highway 1, Albion, California

Well ID	Date Sampled	TPHg µg/l	TPHd µg/l	Benzene µg/l	Toluene µg/l	Ethyl-benzene µg/l	Xylenes µg/l	MTBE µg/l	TBA µg/l	Other Oxygenates µg/l	Lead Scavengers µg/l
MW-2	10/12/99	4800 [a]	610 [d]	570	180	17	450	9700*	NA	NA	ND<330
	01/27/00	17,000	2500 [D,b]	2200	250	490	1800	9100	2200	ND	NA
	05/25/00	12,000 [a]	2900 [D]	2400	180	480	930	8900	ND<250	ND	NA
	09/14/00	7600 [a]	NA	1700	63	280	330	12,000	ND<250	ND	NA
	12/07/00	2300 [a]	NA	330	9.6	40	14	25,000	4500	ND	NA
	04/17/01	4400 [a]	NA	1000	19	210	140	13,000	2400	ND	NA
	07/18/01	4400 [a]	NA	920	16	150	56	15,000	ND<1700	ND	NA
	10/30/01	3000 [a]	NA	350	9.2	65	9.3	22,000	ND<5000	ND	ND<1000
	01/30/02	3500 [a]	NA	480	21	120	95	2700	ND<500	ND	NA
	05/22/02	2800 [a]	NA	740	9.2	210	32	4900	ND<1000	ND	ND<100
	08/28/02	3000 [a]	NA	620	9.5	120	5.1	19,000	ND<5000	ND	ND<500
	11/27/02	1500 [a]	NA	ND<200	ND<200	ND<200	ND<200	11,000	ND<2000	ND [(1)]	ND<200
	02/12/03	3400 [a]	NA	970	40	69	260	12,000	ND<2000	ND	ND<200
	05/29/03	2400 [a]	NA	500	17	91	95	11,000	ND<2500	ND	ND<250
	08/26/03	4200 [a]	NA	870	13	140	45	29,000	ND<10K	ND	NA
	02/27/04	3600 [a]	NA	660	36	99	200	12,000	ND<2500	ND	NA
	05/27/04	2700 [a]	NA	580	8.3	86	16	22,000	ND<5000	ND	NA
	08/27/04	2800 [a]	NA	550	49	52	64	17,000	ND<5000	ND	NA
Ozone system operating	12/17/04	2500 [a]	NA	880	10	84	19	7800	ND<1700	ND	NA
	03/30/05	9100 [a]	NA	1300	37	360	150	14,000	4400	ND	NA

Table 2. Analytical Results - Groundwater Samples from Monitoring Wells: Fuel Hydrocarbons, Oxygenates and Lead Scavengers
Former Albion Shell, 3300 N. Highway 1, Albion, California

Well ID	Date Sampled	TPHg µg/l	TPHd µg/l	Benzene µg/l	Toluene µg/l	Ethyl-benzene µg/l	Xylenes µg/l	MTBE µg/l	TBA µg/l	Other Oxygenates µg/l	Lead Scavengers µg/l
MW-2 continued	06/22/05	990 [a]	NA	220	ND<5.0	6.2	31	6000	1900	ND	NA
	09/30/05	3700 [a]	NA	410	6.6	190	14	6500	1800	ND	NA
	12/29/05	**4300 [a]**	**NA**	**610**	**9.6**	**210**	**220**	**6500**	**ND<2500**	**ND**	**NA**
MW-3 †	10/12/99	36,000 [a]	2000 [d]	18,000	4200	990	3700	450,000*	NA	NA	ND<10K
	01/27/00	130,000	6200 [D,b]	33,000	11,000	2200	10,000	570,000	50,000	ND	NA
	05/25/00	110,000 [a]	4400 [D]	38,000	5100	1900	7400	690,000	ND<125K	ND	NA
	09/14/00	76,000 [a]	NA	28,000	1700	1200	3300	440,000	ND<125K	ND	NA
MW-4 ††	10/12/99	6000	860 [d]	10,000	370	300	350	280,000*	NA	NA	ND<10K
	01/27/00	57,000 [a]	1700 [D,b]	17,000	2900	910	2600	270,000	ND<25K	ND	NA
	05/25/00	54,000 [a]	1900 [D]	20,000	2000	1000	2300	290,000	ND<50K	ND	NA
	09/14/00	28,000 [a]	NA	9500	150	460	510	280,000	ND<25K	ND	NA
	12/07/00	41,000 [a]	NA	14,000	1900	830	1700	320,000	ND<25K	ND	NA
	04/17/01	38,000 [a]	NA	14,000	1200	750	1300	310,000	ND<25K	ND	NA
	07/18/01	40,000 [a]	NA	12,000	370	610	640	260,000	ND<25K	ND	NA
MW-5	09/14/00	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<5.0	ND	NA
	12/06/00	ND<50	NA	ND<0.5	1.1	ND<0.5	1.9	ND<1.0	ND<25K	ND	NA
	04/17/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<5.0	ND	NA
	07/18/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<5.0	ND	NA
	10/30/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<5.0	ND	ND<1.0
	01/30/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<5.0	ND	NA
	05/22/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.95	ND<5.0	ND	ND<0.5

Table 2. Analytical Results - Groundwater Samples from Monitoring Wells: Fuel Hydrocarbons, Oxygenates and Lead Scavengers
Former Albion Shell, 3300 N. Highway 1, Albion, California

Well ID	Date Sampled	TPHg µg/l	TPHd µg/l	Benzene µg/l	Toluene µg/l	Ethyl-benzene µg/l	Xylenes µg/l	MTBE µg/l	TBA µg/l	Other Oxygenates µg/l	Lead Scavengers µg/l
MW-5 continued	08/28/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	ND<0.5
	02/12/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	ND<0.5
	08/26/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	0.55	ND<5.0 (2)	NA	NA	NA
	02/27/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0 (2)	NA	NA	NA
	08/26/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0 (2)	NA	NA	NA
Ozone system operating	03/30/05	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0 (2)	NA	NA	NA
MW-6	09/14/00	19,000 [a]	NA	2400	360	700	2300	17,000	ND<2500	ND	NA
	12/07/00	23,000 [a]	NA	3100	210	890	1800	16,000	ND<2500	ND	NA
	04/17/01	20,000 [a]	NA	2200	320	440	1700	9000	ND<1250	ND	NA
	07/18/01	31,000 [a]	NA	3100	390	900	2500	11,000	ND<330	ND	NA
	10/30/01	25,000 [a]	NA	2200	190	710	1600	11,000	ND<1300	ND	ND<250
	01/30/02	20,000 [a]	NA	1100	460	500	2300	3000	ND<250	ND	NA
	05/22/02	13,000 [a]	NA	1500	310	460	1600	6800	ND<1000	ND	ND<100
	08/28/02	17,000 [a]	NA	2200	240	840	2100	10,000	ND<2500	ND	ND<250
	11/27/02	19,000 [a]	NA	2000	240	630	1500	9800	ND<1000	(1)	ND<100
	02/12/03	17,000 [a]	NA	1000	440	680	3300	3000	ND<1000	ND	ND<100
	05/29/03	14,000 [a]	NA	770	98	410	1400	4500	ND<500	ND	ND<50
	08/26/03	16,000 [a]	NA	1600	84	540	700	6900	ND<1200	ND	NA
	02/27/04	11,000 [a]	NA	930	130	360	1600	3800	ND<500	ND	NA

Table 2. Analytical Results - Groundwater Samples from Monitoring Wells: Fuel Hydrocarbons, Oxygenates and Lead Scavengers
Former Albion Shell, 3300 N. Highway 1, Albion, California

Well ID	Date Sampled	TPHg µg/l	TPHd µg/l	Benzene µg/l	Toluene µg/l	Ethyl-benzene µg/l	Xylenes µg/l	MTBE µg/l	TBA µg/l	Other Oxygenates µg/l	Lead Scavengers µg/l
MW-6 continued	05/27/04	4000 [a]	NA	500	21	69	160	1800	ND<500	ND	NA
	08/27/04	13,000 [a]	NA	1100	65	370	490	3900	ND<1000	ND	NA
Ozone system operating	12/17/04	17,000 [a]	NA	1300	85	560	1400	6100	ND<1000	ND	NA
	03/30/05	9500 [a]	NA	280	34	77	460	1600	590	ND	NA
	06/22/05	11,000 [a]	NA	740	100	150	480	4900	ND<1000	ND	NA
	09/30/05	13,000 [a]	NA	920	61	350	690	8200	ND<1000	ND	NA
	12/29/05	**23,000 [a]**	**NA**	**940**	**97**	**750**	**2800**	**6900**	**ND<2500**	**ND**	**NA**
MW-7	09/14/00	ND<50	NA	0.53	1.0	ND<0.5	1.4	1700	ND<250	ND	NA
	12/06/00	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2400	ND<250	ND	NA
	04/16/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	180	ND<25	ND	NA
	07/18/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	910	ND<130	ND	NA
	10/30/01	52 [f]	NA	ND<0.5	ND<0.5	ND<0.5	0.64	1800	ND<130	ND	ND<25
	01/30/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	430	ND<50	ND	NA
	05/22/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	370	ND<50	ND	ND<5.0
	06/14/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	630	ND<100	ND	NA
	08/28/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	430	ND<50	ND	ND<5.0
	11/27/02	ND<50	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	140	ND<50	ND [(1)]	ND<5.0
	02/12/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	160	ND<50	ND	ND<5.0
	05/29/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	35	ND<5.0	ND	ND<0.5
	08/26/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	11	ND<5.0	ND	NA

Table 2. Analytical Results - Groundwater Samples from Monitoring Wells: Fuel Hydrocarbons, Oxygenates and Lead Scavengers
Former Albion Shell, 3300 N. Highway 1, Albion, California

Well ID	Date Sampled	TPHg µg/l	TPHd µg/l	Benzene µg/l	Toluene µg/l	Ethyl-benzene µg/l	Xylenes µg/l	MTBE µg/l	TBA µg/l	Other Oxygenates µg/l	Lead Scavengers µg/l
MW-7 continued	11/26/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.61	ND<5.0	ND	NA
	02/27/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.2	ND<5.0	ND	NA
	08/26/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	NA
Ozone system operating	03/30/05	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	NA
	09/30/05	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	NA
MW-8	09/14/00	ND<50	NA	0.67	2.1	ND<0.5	1.9	1.3	ND<5.0	ND	NA
	12/06/00 [x]	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/16/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<5.0	ND	NA
	07/18/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<5.0	ND	NA
	10/30/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<5.0	ND	ND<1.0
	01/30/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<5.0	ND	NA
	05/22/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	ND<0.5
	08/28/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	ND<0.5
	02/12/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	ND<0.5
	08/26/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	1.5	ND<5.0 [(2)]	NA	NA	NA
	02/27/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0 [(2)]	NA	NA	NA
	08/26/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0 [(2)]	NA	NA	NA
Ozone system operating	03/30/05	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0 [(2)]	NA	NA	NA

Table 2. Analytical Results - Groundwater Samples from Monitoring Wells: Fuel Hydrocarbons, Oxygenates and Lead Scavengers
Former Albion Shell, 3300 N. Highway 1, Albion, California

Well ID	Date Sampled	TPHg µg/l	TPHd µg/l	Benzene µg/l	Toluene µg/l	Ethyl-benzene µg/l	Xylenes µg/l	MTBE µg/l	TBA µg/l	Other Oxygenates µg/l	Lead Scavengers µg/l
MW-9	05/22/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<100	ND	ND<0.5
	08/28/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	ND<0.5
	11/27/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.53	ND<5.0	ND (1)	ND<0.5
	02/12/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.56	ND<5.0	ND	ND<0.5
	05/29/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	ND<0.5
	08/26/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	NA
	11/26/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	NA
	02/27/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	NA
	05/27/04	ND<50	NA	ND<0.5	ND<0.5	0.63	1.6	ND<0.5	ND<5.0	ND	NA
	08/26/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	NA
Ozone system operating	12/17/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	NA
	03/30/05	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	NA
	06/22/05	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	NA
	12/29/05	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**ND<0.5**	**ND<5.0**	**ND**	**NA**
MW-10	05/22/02	ND<50	NA	1.3	ND<0.5	ND<0.5	ND<0.5	900	ND<100	ND	ND<10
	08/28/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	870	ND<120	ND	ND<12
	11/27/02	ND<50	NA	ND<10	ND<10	ND<10	ND<10	620	ND<100	ND (1)	ND<10
	02/12/03	61 [a]	NA	26	ND<0.5	ND<0.5	ND<0.5	1100	ND<170	ND	ND<17
	05/29/03	ND<50	NA	2.7	ND<0.5	ND<0.5	ND<0.5	1300	ND<330	ND	ND<33
	08/26/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	950	ND<170	ND	NA
	11/26/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	410	ND<100	ND	NA

Table 2. Analytical Results - Groundwater Samples from Monitoring Wells: Fuel Hydrocarbons, Oxygenates and Lead Scavengers
Former Albion Shell, 3300 N. Highway 1, Albion, California

Well ID	Date Sampled	TPHg µg/l	TPHd µg/l	Benzene µg/l	Toluene µg/l	Ethyl-benzene µg/l	Xylenes µg/l	MTBE µg/l	TBA µg/l	Other Oxygenates µg/l	Lead Scavengers µg/l
MW-10 continued	02/27/04	230 [a]	NA	93	0.81	ND<0.5	ND<0.5	890	ND<100	ND	NA
	08/26/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	450	ND<100	ND	NA
Ozone system operating	03/30/05	210 [a]	NA	39	0.67	ND<0.5	ND<0.5	810	320	ND	NA
	09/30/05	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1400	ND<500	ND	NA
MW-11	05/22/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	ND<0.5
	08/28/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	ND<0.5
	10/27/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND [(1)]	ND<0.5
	02/12/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	ND<0.5
	05/28/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	ND<0.5
	08/26/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	NA
	11/26/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	NA
	02/27/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	NA
	05/27/04	ND<50	NA	1.1	ND<0.5	1.2	3.5	ND<0.5	ND<5.0	ND	NA
	08/26/04	ND<50 [i]	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	NA
Ozone system operating	12/17/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	NA
	03/30/05	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	NA
	06/22/05	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	NA
	12/29/05	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**ND<0.5**	**ND<5.0**	**ND**	**NA**

Table 2. Analytical Results - Groundwater Samples from Monitoring Wells: Fuel Hydrocarbons, Oxygenates and Lead Scavengers
Former Albion Shell, 3300 N. Highway 1, Albion, California

Well ID	Date Sampled	TPHg µg/l	TPHd µg/l	Benzene µg/l	Toluene µg/l	Ethyl-benzene µg/l	Xylenes µg/l	MTBE µg/l	TBA µg/l	Other Oxygenates µg/l	Lead Scavengers µg/l
MW-12	05/22/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	ND<0.5
	08/28/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	ND<0.5
	11/27/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND (1)	ND<0.5
	02/12/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	ND<0.5
	05/28/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	ND<0.5
	08/26/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	NA
	11/26/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	NA
	02/27/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	NA
	05/27/04	ND<50	NA	0.57	ND<0.5	0.63	1.5	ND<0.5	ND<5.0	ND	NA
	08/26/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	NA
Ozone system operating	12/17/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	NA
	03/30/05	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	NA
	06/22/05	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND	NA
MW-13**	05/22/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	140	40	ND	ND<2.5
	08/28/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	93	37	ND	ND<2.5
	11/27/02	ND<50	NA	ND<1.0	ND<1.0	ND<1.0	ND<1.0	71	20	(1)	ND<0.5
	02/12/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	87	23	ND	ND<2.0
	05/29/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	94	ND<25	ND	ND<2.5
	08/26/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	64	32	ND	NA
	11/26/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	57	23	ND	NA

Table 2. Analytical Results - Groundwater Samples from Monitoring Wells: Fuel Hydrocarbons, Oxygenates and Lead Scavengers
Former Albion Shell, 3300 N. Highway 1, Albion, California

Well ID	Date Sampled	TPHg µg/l	TPHd µg/l	Benzene µg/l	Toluene µg/l	Ethyl-benzene µg/l	Xylenes µg/l	MTBE µg/l	TBA µg/l	Other Oxygenates µg/l	Lead Scavengers µg/l
MW-13** continued	02/27/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	90	26	ND	NA
	08/26/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	35	16	ND	NA
Ozone system operating	03/30/05	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	77	29	ND	NA
	09/30/05	ND<50	NA	ND<0.5	0.50	ND<0.5	1.0	81	31	ND	NA
MW-14**	06/14/02	63 [f]	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	170	ND<25	ND	NA
	08/28/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	320	ND<100	ND	ND<10
	10/27/02	ND<50	NA	ND<5.0	ND<5.0	ND<5.0	ND<5.0	150	ND<50	(1)	ND<5.0
	02/12/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	260	ND<50	ND	ND<5.0
	05/29/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	460	ND<100	ND	ND<10
	08/26/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	460	ND<120	ND	NA
	11/26/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	310	ND<100	ND	NA
	02/27/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	350	ND<100	ND	NA
	08/27/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	210	ND<50	ND	NA
Ozone system operating	03/30/05	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	130	ND<25	ND	NA
	09/30/05	ND<50	NA	ND<0.5	0.56	ND<0.5	1.1	94	ND<17	ND	NA
MW-15	08/27/04	15,000 [a,i]	NA	3700	1300	140	810	10,000	ND<2000	ND	NA
Ozone system operating	12/17/04	18,000 [a]	NA	4500	1400	240	1000	13,000	2200	ND	NA
	03/30/05	78,000 [a]	NA	15,000	10,000	1500	6300	20,000	9100	ND	NA
	06/22/05	79,000 [a]	NA	14,000	10,000	1400	5600	22,000	ND<5000	ND	NA

Table 2. Analytical Results - Groundwater Samples from Monitoring Wells: Fuel Hydrocarbons, Oxygenates and Lead Scavengers
Former Albion Shell, 3300 N. Highway 1, Albion, California

Well ID	Date Sampled	TPHg µg/l	TPHd µg/l	Benzene µg/l	Toluene µg/l	Ethyl-benzene µg/l	Xylenes µg/l	MTBE µg/l	TBA µg/l	Other Oxygenates µg/l	Lead Scavengers µg/l
MW-15 continued	09/30/05	91,000 [a]	NA	17,000	11,000	1500	6700	28,000	ND<5000	ND	NA
	12/29/05	**98,000 [a]**	**NA**	**17,000**	**11,000**	**1700**	**7200**	**23,000**	**ND<10,000**	**ND**	**NA**
MW-16	08/27/04	13,000 [a]	NA	2700	950	62	1100	28,000	ND<5000	ND	NA
Ozone system operating	12/17/04	32,000 [a]	NA	6400	2200	690	3300	48,000	ND<10,000	ND	NA
	03/30/05	67,000 [a]	NA	8600	640	750	2600	45,000	16,000	ND	NA
	06/22/05	62,000 [a]	NA	12,000	5100	1300	6200	45,000	ND<10,000	ND	NA
	09/30/05	45,000 [a]	NA	9600	2800	930	4200	63,000	ND<10,000	ND	NA
	12/29/05	**89,000 [a]**	**NA**	**16,000**	**5900**	**1900**	**8700**	**59,000**	**ND<25,000**	**ND**	**NA**
MW-17	08/27/04	ND<50 [i]	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	250	ND<50	ND	NA
Ozone system operating	12/17/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1200	ND<170	ND	NA
	03/30/05	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	23	7.5	ND	NA
	06/22/05	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	20	ND<5.0	57 [(3)]	NA
	09/30/05	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	22	ND<5.0	ND	NA
	12/29/05	**ND<50**	**NA**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**54**	**ND<10**	**ND**	**NA**
MW-18	08/27/04	28,000 [a]	NA	4500	760	690	1500	21,000	ND<5000	ND	NA
Ozone system operating	12/17/04	27,000 [a]	NA	5200	1100	1100	2200	29,000	ND<10,000	ND	NA
	03/30/05	19,000 [a]	NA	3600	620	550	820	25,000	6500	ND	NA
	06/22/05	14,000 [a]	NA	2100	460	480	880	19,000	ND<5000	ND	NA
	09/30/05	9900 [a]	NA	2000	220	430	440	32,000	ND<5000	ND	NA
	12/29/05	**8300 [a]**	**NA**	**1300**	**200**	**330**	**360**	**20,000**	**ND<10,000**	**ND**	**NA**

Notes

TPHg:	Total petroleum hydrocarbons as gasoline
TPHd:	Total petroleum hydrocarbons as diesel
MTBE:	Methyl tert-butyl ether; analyzed by Analytical Method SW8260B unless noted otherwise
*:	MTBE by EPA method 8020
**:	Deep monitoring wells. MW-13 is next to shallow well MW-10; MW-14 is next to shallow well MW-7
µg/l:	Micrograms per liter
ND:	Not detected above the reporting limit
NA:	Not analyzed
K:	Value x1000
†:	MW-3 was destroyed during December 2000 over-excavation
††:	MW-4 was destroyed during October 2001 over-excavation
a:	Unmodified or weakly modified gasoline is significant
b:	Diesel range compounds are significant; no recognizable pattern
d:	Gasoline range compounds are significant; no recognizable pattern
D:	Gasoline range compounds are significant
f:	One to a few isolated non-target peaks present
i:	Liquid sample that contains greater than ~1 vol. % sediment
x:	Well was dry on this date
(1):	Samples were also analyzed for volatile organics, full spectrum scan, by Analytical Method SW8260B. In addition to the results reported above, the following analytes were detected: MW-6: 130 µg/l naphthalene; 780 µg/l 1,2,4-trimethylbenzene; and 220 µg/l 1,3,5-trimethylbenzene. MW-13: 1.0 µg/l carbon disulfide. MW-14: 180 µg/l 2-butanone (MEK)
(2):	Sample analyzed for MTBE by Analytical Method SW8021B/8015Cm
(3):	Ethanol

0302\table 2 mws

Table 3. Analytical Results - Groundwater Samples from Water-Supply Wells, Test Wells and Surface Water
Former Albion Shell, 3300 N. Highway 1, Albion, California

Sample ID	Sample Date	TPHg µg/l	TPHd µg/l	Benzene µg/l	Toluene µg/l	Ethyl-benzene µg/l	Xylenes µg/l	MTBE µg/l (8260)	Other Oxygenates µg/l	Lead Scavengers µg/l
DW-1 (Domestic Water Well)	09/07/99	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	NA	NA
	01/27/00	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	NA
	05/25/00	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	NA
	09/13/00	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	NA
	12/07/00	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	NA
	04/16/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	NA
	07/17/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	NA
	10/26/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	ND<0.5
	01/29/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	NA
	05/22/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5
	08/27/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5
	11/26/02 [4]	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5
	02/11/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5
	05/29/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5
	08/26/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA
	11/25/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA
	02/27/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA
	05/27/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA
	08/26/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA
	12/16/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA

Table 3. Analytical Results - Groundwater Samples from Water-Supply Wells, Test Wells and Surface Water
Former Albion Shell, 3300 N. Highway 1, Albion, California

Sample ID	Sample Date	TPHg µg/l	TPHd µg/l	Benzene µg/l	Toluene µg/l	Ethyl-benzene µg/l	Xylenes µg/l	MTBE µg/l (8260)	Other Oxygenates µg/l	Lead Scavengers µg/l
DW-1 continued	03/30/05	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA
	06/22/05	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA
	09/30/05	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA
	12/29/05	**ND<50**	**NA**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND**	**NA**
LHW-1 (Ledford House Water-supply Well)	05/25/00	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	NA
	12/07/00	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	NA
LHW-2 (Ledford House Water-supply Well)	05/25/00	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	NA
	02/27/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA
	09/30/05	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA
LHW-1/LHW-2 (Ledford House Water-supply Wells)	04/17/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	NA
	07/18/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	NA
	10/26/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	ND<0.5
	01/30/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	NA
	05/22/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5
	08/27/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5
	11/26/02 [4]	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5
	02/11/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5
	05/28/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5

Table 3. Analytical Results - Groundwater Samples from Water-Supply Wells, Test Wells and Surface Water
Former Albion Shell, 3300 N. Highway 1, Albion, California

Sample ID	Sample Date	TPHg µg/l	TPHd µg/l	Benzene µg/l	Toluene µg/l	Ethyl-benzene µg/l	Xylenes µg/l	MTBE µg/l (8260)	Other Oxygenates µg/l	Lead Scavengers µg/l
LHW-1/LHW-2 (Ledford House Water-supply Wells) continued	08/26/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA
	11/25/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA
	05/27/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA
	08/26/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA
	12/16/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA
	03/30/05	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA
	06/22/05	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA
	12/29/05	**ND<50**	**NA**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND**	**NA**
LHW-3 (Water-supply Well)	05/25/00	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	NA
LHP-1 - LHP (Ledford House Pond)	10/26/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	ND<0.5
	01/30/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	NA
	05/22/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5
	11/26/02 [4]	ND<50	NA	ND<0.5	ND<1.0	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5
	02/11/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5
WP-1	09/07/99	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5 *	NA	NA
WP-2	01/27/00	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	NA
WP-3	05/25/00	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	NA
WP-4	09/13/00	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	NA
WP-5	12/07/00	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	NA
WP-6	04/16/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	NA

Table 3. Analytical Results - Groundwater Samples from Water-Supply Wells, Test Wells and Surface Water
Former Albion Shell, 3300 N. Highway 1, Albion, California

Sample ID	Sample Date	TPHg µg/l	TPHd µg/l	Benzene µg/l	Toluene µg/l	Ethyl-benzene µg/l	Xylenes µg/l	MTBE µg/l (8260)	Other Oxygenates µg/l	Lead Scavengers µg/l
WP-7	07/17/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	NA
WP-8	10/26/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	ND<0.5
WP-9	01/29/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	NA
WP (Well Pond)	05/22/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5
	08/27/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5
	11/26/02 [4]	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5
	02/11/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5
	05/28/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5
DP-1	09/07/99 [1]	56 [f]	100 [b]	570	180	17	450	14	ND	ND<1.0
DP-2	01/27/00 [2]	140 [a]	ND<50	24	19	1.9	11	270	ND	ND<10
DP-3	05/25/00 [2]	ND<50	ND<5.0	4.7	3.2	ND<0.5	3.3	420	ND	NA
DP-4	09/13/00	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	17	ND	NA
DP-5	12/07/00	ND<50	NA	0.62	ND<0.5	ND<0.5	ND<0.5	230	ND	NA
DP-6	04/16/01	ND<50	NA	0.69	ND<0.5	ND<0.5	ND<0.5	160	ND	NA
DP-7	07/17/01	ND<50	NA	0.68	ND<0.5	ND<0.5	ND<0.5	52	ND	NA
DP-8	10/26/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	16	ND	ND<0.5
DP-9	01/29/02	120 [a]	NA	22	20	2.5	14	170	ND	NA
DP (Duck Pond)	05/22/02	ND<50	NA	1.8	0.55	ND<0.5	0.79	97	ND	ND<1.7
	08/27/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	100	ND	ND<2.5
	11/26/02 [4]	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	35	ND	ND<0.5

Table 3. Analytical Results - Groundwater Samples from Water-Supply Wells, Test Wells and Surface Water
Former Albion Shell, 3300 N. Highway 1, Albion, California

Sample ID	Sample Date	TPHg µg/l	TPHd µg/l	Benzene µg/l	Toluene µg/l	Ethyl-benzene µg/l	Xylenes µg/l	MTBE µg/l (8260)	Other Oxygenates µg/l	Lead Scavengers µg/l
DP (Duck Pond continued)	02/11/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	63	ND	ND<1.0
	05/29/03 [5]	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	220	ND	ND<10
	11/25/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA
	02/27/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA
	05/27/04	ND<0.5	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA
	08/26/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA
	12/16/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA
	03/30/05	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA
	06/22/05	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA
	09/30/05	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA
	12/29/05	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**ND<0.5**	**ND**	**NA**
DPI-1 (Duck Pond Influent)	04/17/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	5.1	ND	NA
	01/29/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	NA
DPE-1 (Duck Pond Effluent)	04/17/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	120	ND	NA
SD-1 (Storm Drain Ditch)	04/17/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	NA
	02/11/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5
TW-3 (Smith Property Test Well Destroyed 10/02)	10/31/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA

Table 3. Analytical Results - Groundwater Samples from Water-Supply Wells, Test Wells and Surface Water
Former Albion Shell, 3300 N. Highway 1, Albion, California

Sample ID	Sample Date	TPHg µg/l	TPHd µg/l	Benzene µg/l	Toluene µg/l	Ethyl-benzene µg/l	Xylenes µg/l	MTBE µg/l (8260)	Other Oxygenates µg/l	Lead Scavengers µg/l
TW-4 (Smith Property Test Well Destroyed 10/02)	07/17/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	NA
	10/26/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	ND<0.5
	01/29/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.1	ND	NA
	05/22/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5
	08/27/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5
TW-5 (Smith Property Test Well)	07/17/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	NA
	10/26/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	ND<0.5
	01/29/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	NA
	05/22/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5
	08/27/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5
	11/26/02 [4]	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5
SW-1 (Duck Pond Drainage)	07/17/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.2	ND	NA
	01/30/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	62	ND	NA
	05/22/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	27	ND	ND<0.5
	08/27/02 [3,4]	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/11/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	7.5	ND	ND<0.5
	05/28/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	10	ND	ND<0.5
	02/27/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	6.3	ND	ND
	05/27/04	ND<50 [i]	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA
	12/16/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.8	ND	NA

Table 3. Analytical Results - Groundwater Samples from Water-Supply Wells, Test Wells and Surface Water
Former Albion Shell, 3300 N. Highway 1, Albion, California

Sample ID	Sample Date	TPHg µg/l	TPHd µg/l	Benzene µg/l	Toluene µg/l	Ethyl-benzene µg/l	Xylenes µg/l	MTBE µg/l (8260)	Other Oxygenates µg/l	Lead Scavengers µg/l
SW-1 (Duck Pond Drainage) continued	03/30/05	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	6.6	ND	NA
	06/22/05	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.5	ND	NA
	12/29/05	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**4.4**	**ND**	**NA**
SW-2 (Duck Pond Drainage)	01/30/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	42	ND	NA
	05/22/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	5.4	ND	ND<0.5
	08/27/02 [3]	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/11/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.9	ND	ND<0.5
SW-3 (Northwest Drainage)	01/30/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA
	05/22/02	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5
	08/27/02 [3]	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/11/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5
SW-4 (Northwest Drainage)	11/26/02 [4]	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5
	02/11/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5
	05/28/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	ND<0.5
	08/26/03	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA
	11/25/03	ND<50 [i]	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA
	02/27/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA
	05/27/04	ND<50 [i]	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA
	08/26/04	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA

Table 3. Analytical Results - Groundwater Samples from Water-Supply Wells, Test Wells and Surface Water
Former Albion Shell, 3300 N. Highway 1, Albion, California

Sample ID	Sample Date	TPHg µg/l	TPHd µg/l	Benzene µg/l	Toluene µg/l	Ethyl-benzene µg/l	Xylenes µg/l	MTBE µg/l (8260)	Other Oxygenates µg/l	Lead Scavengers µg/l
SW-4 (Northwest Drainage) continued	03/30/05	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA
	06/22/05	ND<50 [i]	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	NA
	12/29/05	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**ND<0.5**	**ND**	**NA**
PE-1 (Duck Pond Drain Pipe)	07/18/01	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND	NA

TPHg: Total petroleum hydrocarbons as gasoline
TPHd: Total petroleum hydrocarbons as diesel
MTBE: Methyl tert-butyl ether; analyzed by Analytical Method SW8260B unless noted otherwise
µg/l: Micrograms per liter
ND: Not detected above the reporting limit
NA: Not analyzed
NS: Not sampled
a: Unmodified or weakly modified gasoline is significant
b: Diesel range compounds are significant; no recognizable pattern
f One to a few isolated peaks present, identified as hexanal and pentanal (not gasoline)
i: Liquid sample that contains greater than ~2 vol. % sediment
j: No recognizable pattern
*: MTBE by EPA Method 8021B/8015Cm
1: Sample DP-1 also analyzed for volatile organics, full spectrum scan, by Analytical Method SW8260B; results were 6.7 µg/l carbon disulfide, as well as non-target peaks identified as hexanal and pentanal
2: Samples DP-2 and DP-3 were also analyzed for volatile organics, full spectrum scan, by Analytical Method SW8260B. Except for MTBE, benzene, toluene and xylene results reported above, results were ND.
3: Surface water was not present and samples were not collected from the duck pond or northwest drainage areas on August 27, 2002.
4: Samples were also analyzed for volatile organics, full spectrum scan, by Analytical Method SW8260B. In addition to results reported above, 0.61 µg/l bromoform and 0.93 µg/l dibromochloromethane were detected in samples from LHW-1/LHW-2.
5: Sample DP also analyzed for total organic carbon (TOC) by Method 5310C. Result was 6.53 milligrams per liter (mg/l); reporting limit was 1.00 mg/l.

Table 4. Analytical Results - Groundwater Samples from Monitoring Wells: Inorganic Anions and Dissolved Metals
Former Albion Shell, 3300 N. Highway 1, Albion, California

Well ID	Date Sampled	Bromate mg/l	Bromide mg/l	Hexachrome µg/l	Molybdenum µg/l	Selenium µg/l	Vanadium µg/l
MW-2	08/27/04	ND<0.040	1.0	ND<0.2	0.67	ND<0.5	0.95
Ozone system operating	12/17/04	ND<0.1	0.80	ND<0.2	0.57	ND<0.5	ND<0.5
	03/30/05	ND<0.005	0.91	ND<0.2	0.59	ND<0.5	0.86
	06/22/05	0.024	0.74	ND<0.2	ND<0.5	ND<0.5	0.63
	09/30/05	ND<0.005	1.3	ND<0.2	0.89	ND<0.5	ND<0.5
	12/29/05	**ND<0.025** [j]	**0.83**	**ND<0.2**	**1.7**	**0.54**	**ND<0.5**
MW-6	08/27/04	ND<0.040	1.3	ND<0.2	ND<0.5	ND<0.5	ND<0.5
Ozone system operating	12/17/04	ND<0.1	1.4	ND<0.2	ND<0.5	ND<0.5	ND<0.5
	03/30/05	ND<0.005	0.59	ND<0.2	ND<0.5	ND<0.5	ND<0.5
	06/22/05	ND<0.005	0.97	ND<0.2	ND<0.5	ND<0.5	ND<0.5
	09/30/05	ND<0.005	0.88	ND<0.2	ND<0.5	ND<0.5	ND<0.5
	12/29/05	**ND<0.025** [j]	**0.74**	**ND<0.2**	**0.67**	**ND<0.5**	**ND<0.5**
MW-15	08/27/04	ND<0.040	2.2	ND<0.2	7.1	0.73	1.4
Ozone system operating	12/17/04	ND<0.1	1.4	ND<0.2	3.8	ND<0.5	0.70
	03/30/05	ND<0.005	1.6	ND<0.2	0.83	0.85	0.72
	06/22/05	0.054	1.6	ND<0.2	0.54	0.89	ND<0.5
	09/30/05	ND<0.005	1.5	ND<0.2	0.68	0.82	ND<0.5
	12/29/05	**ND<0.025** [j]	**1.4**	**ND<0.2**	**0.61**	**0.96**	**ND<0.5**
MW-16	08/27/04	ND<0.040	2.0	ND<0.2	15	1.0	6.5
Ozone system operating	12/17/04	ND<0.1	1.2	ND<0.2	6.1	1.2	1.5
	03/30/05	ND<0.005	0.92	ND<0.2	3.6	1.5	ND<0.5
	06/22/05	0.056	0.77	ND<0.2	1.5	1.6	ND<0.5
	09/30/05	ND<0.005	0.73	ND<0.2	1.9	0.78	ND<0.5
	12/29/05	**ND<0.025** [j]	**0.62**	**ND<0.2**	**1.2**	**1.7**	**ND<0.5**
MW-17	08/27/04	ND<0.040	0.24	ND<0.2	1.4	ND<0.5	0.87
Ozone system operating	12/17/04	ND<0.1	0.26	ND<0.2	1.4	0.69	0.62
	03/30/05	ND<0.005	0.21	0.62	2.1	0.86	0.85
	06/22/05	ND<0.005	0.14	0.46	2.3	0.77	1.0

Table 4. Analytical Results - Groundwater Samples from Monitoring Wells: Inorganic Anions and Dissolved Metals
Former Albion Shell, 3300 N. Highway 1, Albion, California

Well ID	Date Sampled	Bromate mg/l	Bromide mg/l	Hexachrome µg/l	Molybdenum µg/l	Selenium µg/l	Vanadium µg/l
MW-17 cont.	09/30/05	ND<0.005	0.13	ND<0.2	1.9	ND<0.5	0.68
	12/29/05	**ND<0.025 [j]**	**ND<0.1**	**ND<0.2**	**1.7**	**ND<0.5**	**ND<0.5**
MW-18	08/27/04	ND<0.040	1.3	ND<0.2	0.68	0.53	ND<0.5
Ozone system operating	12/17/04	ND<0.1	1.5	ND<0.2	0.60	0.68	ND<0.5
	03/30/05	ND<0.005	1.4	ND<0.2	ND<0.5	0.56	ND<0.5
	09/30/05	ND<0.005	1.5	ND<0.2	0.57	ND<0.5	ND<0.5
	12/29/05	**ND<0.025 [j]**	**1.2**	**ND<0.2**	**0.67**	**ND<0.5**	**ND<0.5**
WQO	--	NE	NE	21	35	35	50

mg/l: Milligrams per liter
µg/l: Micrograms per liter
ND: Not detected above the reporting limit
WQO: Water Quality Objective (Central Valley Regional Water Quality Control Board, August 2003)
NE: Not established
j: Sample diluted due to high inorganic content

0302\table 4

Table 5. Monitoring Well Groundwater Results for Dissolved Oxygen, Oxidation Reduction Potential, Temperature and pH
Former Albion Shell, 3300 Highway 1 North, Albion, California

Well ID	Date	DTW (feet)	DO (mg/l)	ORP (mV)	Temperature (°F)	pH
MW-1	08/26/04 *	10.91	0.12	166	56.5	6.91
	03/30/05 *	3.27	0.88	59	54.4	8.42
MW-2 (Downgradient from Trench RT-1)	08/27/04 *	9.43	0.90	152	59.1	7.29
	11/3/04	—	0.65	—	63.3	—
	12/17/04 *	7.70	0.43	150	60.1	7.79
	01/21/05	—	0.17	—	56.1	—
	02/15/05	—	0.18	—	55.8	—
	03/02/05	—	0.30	—	57.4	—
	03/30/05 *	1.04	1.59	121	57.4	6.72
	04/29/05	—	0.19	—	57.2	—
	05/31/05	—	0.14	—	57.5	—
	06/22/05 *	2.47	0.60	130	56.6	6.18
	08/31/05	—	0.14	—	61.7	—
	09/30/05 *	6.70	0.23	—	60.6	6.31
	10/27/05	—	0.19	—	61.9	—
	11/29/05	—	0.50	—	58.9	—
	12/29/05 *	3.19	0.85	-53	58.0	6.39
MW-5	08/26/04 *	12.92	0.20	160	61.3	6.50
	03/30/05 *	4.72	0.22	50	56.4	8.78
MW-6 (Downgradient from Trench RT-2)	08/27/04 *	12.17	3.18	120	63.4	6.83
	11/3/04	—	0.50	—	60.3	—
	12/17/04 *	7.08	0.44	120	59.4	6.61
	01/21/05	—	0.17	—	56.7	—
	02/15/05	—	0.17	—	56.3	—
	03/02/05	—	0.19	—	56.1	—
	03/30/05 *	6.18	2.07	38	56.8	7.57
	04/29/05	—	0.18	—	57.2	—
	05/31/05	—	0.13	—	57.5	—

Table 5. Monitoring Well Groundwater Results for Dissolved Oxygen, Oxidation Reduction Potential, Temperature and pH
Former Albion Shell, 3300 Highway 1 North, Albion, California

Well ID	Date	DTW (feet)	DO (mg/l)	ORP (mV)	Temperature (°F)	pH
MW-6 (Downgradient from Trench RT-2) continued	06/22/05 *	7.19	0.86	51	61.9	7.14
	08/31/05	—	0.14	—	59.9	—
	09/30/05 *	9.86	0.53	—	62.8	5.72
	10/27/05	—	0.15	—	60.4	—
	11/29/05	—	1.99	—	59.8	—
	12/29/05 *	4.95	1.48	-0	59.2	6.32
MW-7 (Shallow well paired with MW-14)	08/26/04 *	9.96	4.73	65	57.0	9.41
	03/30/05 *	3.99	2.99	124	53.8	7.05
	09/30/05 *	7.47	4.21	—	58.7	6.09
MW-8	08/26/04 *	17.28	7.00	170	56.6	8.01
	03/30/05 *	7.86	6.80	103	56.8	7.90
MW-9	08/26/04 *	9.66	1.72	145	57.2	7.28
	12/17/04 *	9.25	1.71	140	55.1	7.41
	03/30/05 *	4.29	2.80	83	53.8	7.47
	06/22/05 *	5.07	1.87	183	57.3	5.59
	12/29/05 *	2.97	3.13	137	55.0	6.74
MW-10 (Shallow well paired with MW-13)	08/26/04 *	9.19	0.10	124	57.5	8.27
	03/30/05 *	5.22	0.17	77	54.0	8.21
	09/30/05 *	7.50	0.19	—	58.3	6.66
MW-11	08/26/04 *	10.24	1.09	184	58.2	7.76
	12/17/04 *	6.68	1.30	170	54.6	7.75
	03/30/05 *	4.56	6.87	134	56.1	7.40
	06/22/05 *	5.34	4.17	193	58.2	6.02
	12/29/05 *	4.84	4.16	105	54.7	7.70
MW-12	08/26/04 *	13.96	1.20	178	59.1	7.38
	12/17/04 *	11.20	0.88	179	55.9	7.55
	03/30/05 *	7.81	1.60	135	58.3	7.73
	06/22/05 *	6.85	1.99	207	59.6	6.13

Table 5. Monitoring Well Groundwater Results for Dissolved Oxygen, Oxidation Reduction Potential, Temperature and pH Former Albion Shell, 3300 Highway 1 North, Albion, California

Well ID	Date	DTW (feet)	DO (mg/l)	ORP (mV)	Temperature (°F)	pH
MW-13 (Deep well paired with MW-10)	08/26/04 *	8.81	4.66	76	59.6	10.97
	03/30/05 *	4.70	6.53	30	54.9	11.48
	09/30/05 *	7.08	2.14	—	58.6	12.16
MW-14 (Deep well paired with MW-7)	08/26/04 *	12.51	1.59	8	56.9	11.47
	03/30/05 *	7.41	3.65	35	54.3	11.72
	09/30/05 *	10.80	1.48	—	57.1	7.10
MW-15 (Cross gradient from Trench RT-1)	08/27/04 *	7.41	4.00	166	57.4	7.55
	12/17/04 *	8.40	2.13	165	56.8	7.51
	03/30/05 *	4.70	0.37	90	55.5	6.50
	05/31/05	—	0.15	—	55.5	—
	06/22/05 *	2.85	1.61	33	57.3	6.73
	08/31/05	—	0.15	—	59.8	—
	09/30/05 *	4.31	0.60	—	58.5	6.35
	10/27/05	—	0.13	—	60.1	—
	11/29/05	—	0.33	—	56.5	—
	12/29/05 *	0.33	1.00	-0	55.5	6.45
MW-16 (Upgradient from Trench RT-1)	08/27/04 *	7.47	4.59	174	61.3	7.32
	11/3/04	—	0.65	—	60.2	—
	12/17/04 *	4.74	0.19	130	60.6	7.51
	01/21/05	—	0.18	—	56.1	—
	02/15/05	—	0.19	—	55.9	—
	03/02/05	—	0.29	—	56.4	—
	03/30/05 *	1.50	0.22	0	57.1	6.86
	04/29/05	—	0.22	—	57.7	—
	05/31/05	—	0.15	—	57.6	—
	06/22/05 *	1.82	0.30	11	60.1	6.92
	08/31/05	—	0.14	—	60.9	—

Table 5. Monitoring Well Groundwater Results for Dissolved Oxygen, Oxidation Reduction Potential, Temperature and pH
Former Albion Shell, 3300 Highway 1 North, Albion, California

Well ID	Date	DTW (feet)	DO (mg/l)	ORP (mV)	Temperature (°F)	pH
MW-16 (Upgradient from Trench RT-1) continued	09/30/05 *	5.80	0.24	—	61.0	6.34
	10/27/05	—	0.18	—	61.1	—
	11/29/05	—	0.26	—	59.7	—
	12/29/05 *	2.86	0.61	-63	59.0	6.24
MW-17 † (Within UST excavation backfill)	01/21/05	—	0.88	—	57.5	—
	02/15/05	—	0.94	—	58.1	—
	03/02/05	—	3.21	—	56.9	—
	03/30/05 *	2.01	0.99	177	57.9	7.47
	04/29/05	—	0.15	—	59.9	—
	05/31/05	—	1.01	—	60.5	—
	06/22/05 *	3.06	0.43	101	63.5	7.97
	08/31/05	—	1.11	—	61.3	—
	09/30/05 *	5.30	0.10	—	65.2	7.07
	10/27/05	—	4.31	—	62.1	—
	11/29/05	—	0.98	—	64.1	—
	12/29/05 *	1.79	0.45	121	59.7	6.51
MW-18 (Upgradient from Trench RT-2)	01/21/04	—	0.15	—	55.9	—
	02/15/05	—	0.17	—	56.9	—
	03/02/05	—	0.23	—	57.4	—
	03/30/05 *	2.55	0.21	28	57.4	6.72
	04/29/05	—	0.18	—	58.4	—
	05/31/05	—	0.29	—	58.9	—
	06/22/05 *	3.35	0.43	-24	61.1	7.00
	08/31/05	—	0.31	—	60.7	—
	09/30/05 *	4.34	0.25	—	64.1	5.92
	10/27/05	—	0.27	—	60.8	—
	11/29/05	—	0.40	—	61.7	—
	12/29/05 *	1.12	0.61	-85	59.9	6.30

Table 5. Monitoring Well Groundwater Results for Dissolved Oxygen, Oxidation Reduction Potential, Temperature and pH Former Albion Shell, 3300 Highway 1 North, Albion, California

Notes

DTW: Depth to water
DO: Dissolved oxygen
ORP: Oxidation-reduction potential
mg/l: Milligrams per liter
mV: Millivolts
°F: Degrees Fahrenheit
*: Combined O&M and quarterly sampling event; where possible, readings taken after last well volume purged
RT-1: North remediation trench
RT-2: South remediation trench
†: MW-17 is located in the pea-gravel backfill of the December 2000 excavation

0302\table 5 DO

Table 6. Ozone System Operations and Maintenance Log
Former Albion Shell, 3300 Highway 1 North, Albion, California

Panel	Date	Comments
T-1	08/27/04 *	Pre-ozone microsparging baseline measurements
	11/1-2/04	System startup
	11/3/04	Check system pressures; jumper relay wire installed; remove ozonator hose from bottom of panel
	11/12/04	Panel running; check for panel and sparge point leaks
	11/18/04	Panel running; check pressures
	12/16-17/04 *	System down; ozone sensor tripped; restart system; check meter
	01/21/05	System running; T1SP-4 grout/leak repaired
	02/15/05	Panel down (ozone switch); restart panel; check for leaks
	03/02/05	System bubbling at surface; reduced run times to 53.75% of original run time
	03/30/05 *	Panel running; check for leaks
	04/29/05	Panel running; vacuum and clean out panel, check pressures, tighten all electrical; reprogram run times to full run times
	05/31/05	System down; rebuild compressor; cleanup inlet, check pressures
	06/22/05 *	System running; dismantle compressor and replace piston; check pressures; clean out panel; replace main power switch
	08/31/05	System running; rewire panel for auto start-up (two transformers and relay); clean out intake and compressors
	09/30/05 *	System running; open and clean out compressor and intake. Needs new piston. Pressure check; check all wire connections.
	10/27/05	System running; open compressor, replace piston and flip cylinder, install pressure check
	11/29/05	System running; clean intake filter and tube, dust panel, pressure check system
	12/29/05 *	System running; open compressor, replace worn piston, reinstall pressure check
T-2	08/27/04 *	Pre-ozone microsparging baseline measurements
	11/1-2/04	System startup
	11/3/04	Check system pressures; install relay wire; disconnect ozonator intake hose from bottom of panel
	11/12/04	Panel running; check for panel and sparge point leaks

Table 6. Ozone System Operations and Maintenance Log
Former Albion Shell, 3300 Highway 1 North, Albion, California

Panel	Date	Comments
T-2 continued	11/18/04	Panel running; check for panel and sparge point leaks
	12/16-17/04 *	System down and unplugged; check system clock and restart
	01/21/05	Panel running; low system pressures; replace #9 solenoid; clean intake tube; check pressures and for leaks
	02/15/05	System running (reported outage and system restart)
	03/02/05	System bubbling at surface; reduced run times to 52.38% of original run times
	03/30/05 *	System running; check for leaks
	04/29/05	System running; vacuum sediment from cabinet, reprogram timer to run 7 minutes run times on all sparge points
	05/31/05	System running; check system pressures, clean out inlet
	06/22/05 *	System running; dismantle compressor and replace piston; check pressures; clean out panel; replace main power switch; lower fan will need replacing (running slowly)
	08/31/05	System running; rewire panel for auto start-up (two transformers and relay); clean out intake and compressors
	09/30/05 *	System running; reprogram timer; open and clean out compressor and intake. Needs new piston. Pressure check; tighten all wire blocks.
	10/27/05	System running; open compressor, replace piston, clean out panel
	11/29/05	System running; replace bad manifold pressure tank, pressure check system, replace in-fan filter
	12/29/05 *	System running; open compressor, replace worn piston, reinstall and pressure check
EXC	11/03/04	3rd day system check; check for leaks; jumper wire for relays installed; remove ozonator input hose from bottom of panel
	11/12/04	Panel running; check pressures and for leaks in panel and sparge points
	12/16-17/04 *	System down on 16th; ozone sensor tripped; restart system; check pressures and for leaks;
	01/21 & 01/24/05	System running on 01/21/05; repair ozone leaks and set boxes to final grade; re-grout SP-6; replace bottom fan short
	02/15/05	Panel running (reported outage and system restart); clean station #5 solenoid switch; station #4 line leak between panel and SP; reprogram panel to 0 run time on station #4; order replacement hose

Table 6. Ozone System Operations and Maintenance Log
Former Albion Shell, 3300 Highway 1 North, Albion, California

Panel	Date	Comments
EXC continued	03/02/05	System bubbling at surface; reduced run times to 52% of original run time; leak in SP-2 into secondary containment - reduce run time to 0 (from 2/15/05)
	03/30/05 *	System running; adjust ozone sensor; check for leaks; burnt wire to be replaced
	04/29/05	System down; rewire panel, reprogram timer to 10 minute run time on all sparge points except #4; leak in delivery line; clean out vacuum panel; solenoid sticking, clean out manifold
	05/31/05	System running; clean inlet tube, check pressures; turn up run times on 7 stations; maximum run times (11 minutes) on all stations except #4 (1 minute)
	06/22/05 *	System down; ozone sensor out (reordered); dismantle compressor and replace piston; check pressures; station #4 (SP-2) turned off - all others at 11 minute run times; no ozone nor FHCs detected in ozone meter station and deli building
	08/31/05	System down; burned wires (main power switch at wire block [GFI neutral] and wire block to the right of latch relay [red wire]); replace large block and order small block by latch; splice red wire temporarily; rewire panel for auto start-up (two transformers and relay)
	09/30/05 *	System running; open and clean out compressor and intake. Needs new piston. Pressure check; check all wire blocks. Replace far right wire block, lower fan, and red light bulb in door. Needs intake filter.
	10/27/05	System running; open compressor, change piston and flip cylinder, install pressure check
	11/29/05	System running; clean out panel, pressure check system
	12/29/05 *	System running; open compressor, replace worn piston, pressure check

*: Combined O&M and quarterly sampling event

Appendix A

Groundwater Field Logs

DAILY FIELD RECORD

Project and Task Number: 0302	Date: 12/29/05
Project Name: ALBION SHELL	Field Activity: GROUNDWATER MONITORING
Location: 3300 N. HWY #1	Weather:
Time of OVM Calibration:	

PERSONNEL

Name	Company	Time In	Time Out
CHRIS	ECTA	530	7:30
Jeff	ECTA	530	7:30

DRUM ID	DESCRIPTION OF CONTENTS AND QUANTITY	LOCATION

TIME	DESCRIPTION OF WORK PERFORMED
	LOAD/DEPART ORDER 11, 9, 17, 2, 18, 6, 16, 15
	ONSITE OPEN ALL wells (11, 13, 16, 2, 15, 1,) HIGH PRESSURE
	ALLOW TIME TO EQUILIBRATE TAKE WL's
	CALC GWF LOGS & BEGIN PURGING wells IN ORDER collect DW's
	ALLOW TIME FOR RECHARGE TAKE POST PURGE DTW's
	BEGIN SAMPLING wells IN ORDER, close & LOCK wells
	DEPART

Well ID	DTW	Well #	DTW
MW-8	7.73	MW-1	3.55
MW-12	8.43	MW-15	0.33 (0.33)
MW-11	4.84	MW-14	8.13
MW-13	5.45	MW-7	3.74
MW-10	4.93	MW-9	2.97
MW-18	1.12		
MW-6	4.95		
MW-5	2.52		
MW-2	3.19		
MW-16	2.86		
MW-17	1.79		

EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

FIELD LOG

☒ GROUNDWATER	☐ SURFACE WATER	☐ DOMESTIC WATER	☐ IRRIGATION WATER	☐ WELL DEVELOPMENT

Project No: 0302	Field point name: MW-2
Global ID: T0604500291	Well depth from TOC: 15
Project location: 3300 N HWY #1	Well diameter: ☒ 2" ☐ 4" ☐ 6" ☐ Other:
Date: 12/29/05	Product level from TOC: ND
Time: 8:00	Water level from TOC: 3.19
Recorded by: CS / JM	Screened interval: 5-15'
Purge time (duration):	Well elevation (TOC): 149.89

WEATHER

Wind: 0 - 5 mph	Precip. in last 5 days: yes

VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

☒ 2" well = 0.17 gal/ft 11.81	☐ 6" well = 1.47 gal/ft	Gallons in 1 well volume: 2	
☐ 4" well = 0.66 gal/ft	☐ " well = gal/ft	Total gallons removed: 6	Well volumes removed: 3

CALIBRATION

Parameter	Time	Calibration	Before Sampling	Time	After Sampling
EC:					

FIELD MEASUREMENTS

Time	pH	EC	Temp °F	ORP mV	D O mg/l	Case Volume gal.	Appearance
							HC
	6.78	1113	56.9	-61	1.67	1/ 2	ODOR CLEAR 10' TURB
	6.39	1296	57.7	-43	.85	2/ 4	
	6.39	1298	58.0	-53	.85	3/ 6	DRY AT 6'
						/	

Notes:

Water level after purging below TOC: DRY	80% of original water level below TOC:
Water level before sampling below TOC:	
Appearance of sample:	Time: 330

☐ Bailer:	Type:	GPM:	☒ Pump: ES-40	Type: Submersible	GPM: 1-2
☐ Dedicated:	Type:	GPM:	Decontamination method: Liquinox wash, double rinse		

Sample analysis:	☒ TPHg	☐ TPHd	☐ TPH	☒ BTEX	☒ 7 oxygenates	☐ Lead scavengers	☐ VOCs	☐ Nitrates
EPA Method:								

Other: ☒ BROMATE, BROMIDE, TOTALS 3 Dissolved selenium, MOLYBDENUM, VANADIUM + HEXA CHROME filtered at lab

LABORATORY: ☒ McCampbell Analytical ☐ Other:

EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

FIELD LOG

☒ GROUNDWATER	☐ SURFACE WATER	☐ DOMESTIC WATER	☐ IRRIGATION WATER	☐ WELL DEVELOPMENT

Project No: 0302	Field point name: MW-6
Global ID: T0604500291	Well depth from TOC: 15
Project location: 3300 N HWY #1	Well diameter: ☒ 2" ☐ 4" ☐ 6" ☐ Other:
Date: 12/29/05	Product level from TOC: SHEEN
Time: 8:00	Water level from TOC: 4.95
Recorded by: CS / JM	Screened interval: 5-15'
Purge time (duration):	Well elevation (TOC): 142.19

WEATHER

Wind: 0 – 5 MPH	Precip. in last 5 days: yes

VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

☒ 2" well = 0.17 gal/ft 10.05	☐ 6" well = 1.47 gal/ft	Gallons in 1 well volume: 1.70	
☐ 4" well = 0.66 gal/ft	☐ " well = gal/ft	Total gallons removed: 3.5	Well volumes removed: 2+

CALIBRATION

Parameter	Time	Calibration	Before Sampling	Time	After Sampling
EC:					

FIELD MEASUREMENTS

Time	pH	EC	Temp °F	ORP mV	D O mg/l	Case Volume gal.	Appearance
	6.85	301.9	51.5	-73	3.79	1/ 1.7	HCodor, clear, low turb.
	6.32	492.7	59.2	-0	1.48	2/ 3.4	dry @ 3.5
						3/ 5.1	
						/	

Notes:

Water level after purging below TOC:	80% of original water level below TOC: y
Water level before sampling below TOC: 6.8	
Appearance of sample:	Time: 400

☐ Bailer:	Type:	GPM:	☒ Pump: ES-40	Type: Submersible	GPM: 1-2
☐ Dedicated:	Type:	GPM:	Decontamination method: Liquinox wash, double rinse		

Sample analysis:	☒ TPHg	☐ TPHd	☐ TPH	☒ BTEX	☒ 7 oxygenates	☐ Lead scavengers	☐ VOCs	☐ Nitrates
EPA Method:								

Other: ☒ BROMATE, BROMIDE, TOTAL; DISSOLVED SELENIUM MOLYBDENUM VANADIUM + HEXACHROME filtered at lab

LABORATORY: ☒ McCampbell Analytical ☐ Other:

EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

FIELD LOG

☒ GROUNDWATER	☐ SURFACE WATER	☐ DOMESTIC WATER	☐ IRRIGATION WATER	☐ WELL DEVELOPMENT

Project No: 0302	Field point name: MW-9
Global ID: T0604500291	Well depth from TOC: 20+3 = 23
Project location: 3300 N HWY #1	Well diameter: ☒ 2" ☐ 4" ☐ 6" ☐ Other:
Date: 12/29/05	Product level from TOC: ND
Time: 8:00	Water level from TOC: 2.97
Recorded by: CJ / JM	Screened interval: 5-20 BGS
Purge time (duration):	Well elevation (TOC): 136.42

WEATHER

Wind: 0 - 5 mph	Precip. in last 5 days: yes

VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

☒ 2" well = 0.17 gal/ft 17.03	☐ 6" well = 1.47 gal/ft	Gallons in 1 well volume: 2.89	
☐ 4" well = 0.66 gal/ft	☐ " well = gal/ft	Total gallons removed: 8.7	Well volumes removed: 3

CALIBRATION

Parameter	Time	Calibration	Before Sampling	Time	After Sampling
EC:					

FIELD MEASUREMENTS

Time	pH	EC	Temp °F	ORP mV	D O mg/l	Case Volume gal.	Appearance
	7.53	208.6	54.5	118	.82	1/ 2.9	clear, low flow
	7.04	204.0	54.7	124	.95	2/ 5.8	
	6.74	202.2	55.0	137	3.13	3/ 8.7	
						/	

Notes:

Water level after purging below TOC:	80% of original water level below TOC: y
Water level before sampling below TOC: 2.99	
Appearance of sample:	Time: 300

☐ Bailer:	Type:	GPM:	☒ Pump: ES-40	Type: Submersible	GPM: 1-2
☐ Dedicated:	Type:	GPM:	Decontamination method: Liquinox wash, double rinse		

Sample analysis:	☐ TPHg	☐ TPHd	☐ TPH	☐ BTEX	☒ 7 oxygenates	☐ Lead scavengers	☐ VOCs	☐ Nitrates
EPA Method:								

Other: ☐

LABORATORY: ☒ McCampbell Analytical ☐ Other:

EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

FIELD LOG

☒ GROUNDWATER	☐ SURFACE WATER	☐ DOMESTIC WATER	☐ IRRIGATION WATER	☐ WELL DEVELOPMENT

Project No: 0302	Field point name: MW-11
Global ID: T0604500291	Well depth from TOC: 9 + 3 = 12
Project location: 3300 N HWY #1	Well diameter: ☒ 2" ☐ 4" ☐ 6" ☐ Other:
Date: 12/29/05	Product level from TOC: ND
Time: 8:00	Water level from TOC: 4.84
Recorded by: CJ / JM	Screened interval: 4-9 BGS
Purge time (duration):	Well elevation (TOC): 115.71

WEATHER

Wind: 0 – 5 mph	Precip. in last 5 days: yes

VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

☒ 2" well = 0.17 gal/ft 4.16	☐ 6" well = 1.47 gal/ft	Gallons in 1 well volume: 1.7	
☐ 4" well = 0.66 gal/ft	☐ " well = gal/ft	Total gallons removed: 2	Well volumes removed: 2+

CALIBRATION

Parameter	Time	Calibration	Before Sampling	Time	After Sampling
EC:					

FIELD MEASUREMENTS

Time	pH	EC	Temp °F	ORP mV	D O mg/l	Case Volume gal.	Appearance
	8.74	442.8	54.2	86	4.20	1/ 1.7	clear, low turb
	7.70	449.4	54.7	105	4.16	2/ 1.4	RAN DRY at 2.0
						3/ 2.1	
						/	

Notes:

Water level after purging below TOC:	80% of original water level below TOC: y
Water level before sampling below TOC: 4.91	
Appearance of sample:	Time: 245

☐ Bailer:	Type:	GPM:	☒ Pump: ES-40	Type: Submersible	GPM: 1-2
☐ Dedicated:	Type:	GPM:	Decontamination method: Liquinox wash, double rinse		

Sample analysis:	☐ TPHg	☐ TPHd	☐ TPH	☐ BTEX	☒ 7 oxygenates	☐ Lead scavengers	☐ VOCs	☐ Nitrates
EPA Method:								

Other: ☐

LABORATORY: ☒ McCampbell Analytical ☐ Other:

EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

FIELD LOG

☒ GROUNDWATER	☐ SURFACE WATER	☐ DOMESTIC WATER	☐ IRRIGATION WATER	☐ WELL DEVELOPMENT

Project No: 0302	Field point name: MW-15
Global ID: T0604500291	Well depth from TOC: 13
Project location: 3300 N HWY #1	Well diameter: ☒ 2" ☐ 4 " ☐ 6" ☐ Other:
Date: 12/29/05	Product level from TOC: ND
Time: 8:00	Water level from TOC: .33
Recorded by: Chris J Jeff M	Screened interval: 5-13
Purge time (duration):	Well elevation (TOC): 148.10

WEATHER

Wind: 0 – 5 mPH	Precip. in last 5 days: yes

VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

☒ 2" well = 0.17 gal/ft 12.67	☐ 6" well = 1.47 gal/ft	Gallons in 1 well volume: 2.15	
☐ 4" well = 0.66 gal/ft	☐ " well = gal/ft	Total gallons removed: 5	Well volumes removed: 2

CALIBRATION

Parameter	Time	Calibration	Before Sampling	Time	After Sampling
EC:					

FIELD MEASUREMENTS

Time	pH	EC	Temp °F	ORP mV	D O mg/l	Case Volume gal.	Appearance
	6.51	1762	55.2	-58	2.30	1/ 2.2	low turbidity strong HC odor
	6.45	1813	55.5	-0	1.00	2/ 4.4	dry at 5 gallons
						3/ 6.6	
						/	

Notes:

Water level after purging below TOC:	80% of original water level below TOC: 4
Water level before sampling below TOC: 2.1	
Appearance of sample:	Time: 430

☐ Bailer:	Type:	GPM:	☒ Pump: ES-40	Type: Submersible	GPM: 1 - 2
☐ Dedicated:	Type:	GPM:	Decontamination method: Liquinox wash, double rinse		

Sample analysis:	☒ TPHg	☐ TPHd	☐ TPH	☒ BTEX	☒ 7 oxygenates	☐ Lead scavengers	☐ VOCs	☐ Nitrates
EPA Method:								

Other: ☒ BROMATE, BROMIDE, TOTAL; DISSOLVED SELENIUM MOLYBDENUM VANADIUM + HEXACHROME FILTERED AT LAB

LABORATORY: ☒ McCampbell Analytical ☐ Other:

EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

FIELD LOG

☒ GROUNDWATER	☐ SURFACE WATER	☐ DOMESTIC WATER	☐ IRRIGATION WATER	☐ WELL DEVELOPMENT

Project No: 0302	Field point name: MW-16
Global ID: T0604500291	Well depth from TOC: 15'
Project location: 3300 N Hwy #1	Well diameter: ☒ 2" ☐ 4" ☐ 6" ☐ Other:
Date: 12/29/05	Product level from TOC: NO
Time: 8:00	Water level from TOC: 2.86
Recorded by: CJ/JM	Screened interval: 5-15
Purge time (duration):	Well elevation (TOC): 153.52

WEATHER

Wind: – MPH	Precip. in last 5 days: yes

VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

☒ 2" well = 0.17 gal/ft 12.14	☐ 6" well = 1.47 gal/ft	Gallons in 1 well volume: 2.06	
☐ 4" well = 0.66 gal/ft	☐ " well = gal/ft	Total gallons removed: 6.3	Well volumes removed: 3

CALIBRATION

Parameter	Time	Calibration	Before Sampling	Time	After Sampling
EC:					

FIELD MEASUREMENTS

Time	pH	EC	Temp °F	ORP mV	D O mg/l	Case Volume gal.	Appearance
	6.29	1163	58.2	-46	4.70	1/ 2.1	clear, low turbidity
	6.23	1193	58.3	-57	.97	2/ 4.2	
	6.24	1173	59.0	-63	.61	3/ 6.3	
						/	

Notes:

Water level after purging below TOC:	80% of original water level below TOC: y
Water level before sampling below TOC: 5.3	
Appearance of sample:	Time: 415

☐ Bailer:	Type:	GPM:	☒ Pump: ES-40	Type: Submersible	GPM: 1-2
☐ Dedicated:	Type:	GPM:	Decontamination method: Liquinox wash, double rinse		

Sample analysis:	☒ TPHg	☐ TPHd	☐ TPH	☒ BTEX	☒ 7 oxygenates	☐ Lead scavengers	☐ VOCs	☐ Nitrates
EPA Method:								

Other: ☐

LABORATORY: ☒ McCampbell Analytical ☐ Other:

EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

FIELD LOG

☒ GROUNDWATER	☐ SURFACE WATER	☐ DOMESTIC WATER	☐ IRRIGATION WATER	☐ WELL DEVELOPMENT

Project No: 0302	Field point name: MW-17
Global ID: T0604500291	Well depth from TOC: 13
Project location: 3300 N Hwy #1	Well diameter: ☒ 2" ☐ 4 " ☐ 6" ☐ Other:
Date: 12/29/05	Product level from TOC: ND
Time: 8:00	Water level from TOC: 1.79
Recorded by: CS / JM	Screened interval: 5-13
Purge time (duration):	Well elevation (TOC): 157.51

WEATHER

Wind: 0 – 5 mPH	Precip. in last 5 days: yes

VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

☒ 2" well = 0.17 gal/ft 11.21	☐ 6" well = 1.47 gal/ft	Gallons in 1 well volume: 1.90	
☐ 4" well = 0.66 gal/ft	☐ " well = gal/ft	Total gallons removed: 5.7	Well volumes removed: 3

CALIBRATION

Parameter	Time	Calibration	Before Sampling	Time	After Sampling
EC:					

FIELD MEASUREMENTS

Time	pH	EC	Temp °F	ORP mV	D O mg/l	Case Volume gal.	Appearance
	6.01	798.7	58.7	155	.61	1/ 1.9	Clear, low turb
	6.40	790.0	59.6	128	.46	2/ 3.8	
	6.51	784.1	59.7	121	.45	3/ 5.7	
						/	

Notes:

Water level after purging below TOC:	80% of original water level below TOC: y
Water level before sampling below TOC: 1.9	
Appearance of sample:	Time: 315

☐ Bailer:	Type:	GPM:	☒ Pump: ES-40	Type: Submersible	GPM: 1 - 2
☐ Dedicated:	Type:	GPM:	Decontamination method: Liquinox wash, double rinse		

Sample analysis:	☐ TPHg	☐ TPHd	☐ TPH	☐ BTEX	☒ 7 oxygenates	☐ Lead scavengers	☐ VOCs	☐ Nitrates
EPA Method:								

Other:☐

LABORATORY: ☒ McCampbell Analytical ☐ Other:

EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

FIELD LOG

☒ GROUNDWATER	☐ SURFACE WATER	☐ DOMESTIC WATER	☐ IRRIGATION WATER	☐ WELL DEVELOPMENT

Project No: 0302	Field point name: MW-18
Global ID: T0604500291	Well depth from TOC: 16'
Project location: 3300 N Hwy #1	Well diameter: ☒ 2" ☐ 4" ☐ 6" ☐ Other:
Date: 12/29/05	Product level from TOC: NO
Time: 8:00	Water level from TOC: 1.12
Recorded by: CS / JM	Screened interval: 4-16'
Purge time (duration):	Well elevation (TOC): 146.64

WEATHER

Wind: 0 – 5 MPH	Precip. in last 5 days: yes

VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

☒ 2" well = 0.17 gal/ft 14.88	☐ 6" well = 1.47 gal/ft	Gallons in 1 well volume: 2.52	
☐ 4" well = 0.66 gal/ft	☐ " well = gal/ft	Total gallons removed: 7.5	Well volumes removed: 3

CALIBRATION

Parameter	Time	Calibration	Before Sampling	Time	After Sampling
EC:					

FIELD MEASUREMENTS

Time	pH	EC	Temp °F	ORP mV	D O mg/l	Case Volume gal.	Appearance
	6.29	1119	58.5	-72	6.15	1/ 2.5	Clear, low turbidity, odor
	6.29	1117	58.6	-82	1.90	2/ 5	
	6.30	1141	59.9	-85	0.61	3/ 7.5	
						/	

Notes:

Water level after purging below TOC:	80% of original water level below TOC: y
Water level before sampling below TOC: 3.5	
Appearance of sample:	Time: 345

☐ Bailer:	Type:	GPM:	☒ Pump: ES-40	Type: Submersible	GPM: 1 - 2
☐ Dedicated:	Type:	GPM:	Decontamination method: Liquinox wash, double rinse		

Sample analysis:	☒ TPHg	☐ TPHd	☐ TPH	☒ BTEX	☒ 7 oxygenates	☐ Lead scavengers	☐ VOCs	☐ Nitrates
EPA Method:								

Other: ☒ BROMATE, BROMIDE, TOTAL; DISSOLVED SELENIUM MOLYBDENUM VANADIUM + HEXACHROME FILTERED AT LAB

LABORATORY: ☒ McCampbell Analytical ☐ Other:

EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

FIELD LOG

☒ GROUNDWATER	☐ SURFACE WATER	☐ DOMESTIC WATER	☐ IRRIGATION WATER	☐ WELL DEVELOPMENT

Project No: 0302	Field point name: DW-1
Global ID: T0604500291	Well depth from TOC:
Project location: 3300 N HWY #1	Well diameter: ☐ 2" ☐ 4 " ☐ 6" ☐ Other:
Date: 12/29/05	Product level from TOC:
Time: 8:00	Water level from TOC:
Recorded by: CHRIS J Jeff M	Screened interval:
Purge time (duration):	Well elevation (TOC):

WEATHER

Wind: 0 – 5 MPH	Precip. in last 5 days: yes

VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

☐ 2" well = 0.17 gal/ft	☐ 6" well = 1.47 gal/ft	Gallons in 1 well volume:	
☐ 4" well = 0.66 gal/ft	☐ " well = gal/ft	Total gallons removed:	Well volumes removed:

CALIBRATION

Parameter	Time	Calibration	Before Sampling	Time	After Sampling
EC:					

FIELD MEASUREMENTS

Time	pH	EC	Temp °F	ORP mV	D O mg/l	Case Volume gal.	Appearance
						1/	
						2/	
						3/	
						/	

Notes: Collect sample from hose bib in pump house 20' NW of residence, run pump for 15min prior to collecting samples

Water level after purging below TOC:	80% of original water level below TOC:
Water level before sampling below TOC:	
Appearance of sample:	Time:

☐ Bailer:	Type:	GPM:	ype: Submersible	
☒ Dedicated:	Type:	GPM: 10-12	Decontamination method: Liquinox wash, double rinse	

Sample analysis:	☒ TPHg	☐ TPHd	☐ TPH	☒ BTEX	☒ 7 oxygenates	☐ Lead scavengers	☐ VOCs	☐ Nitrates
EPA Method:								

Other: ☐

LABORATORY: ☒ McCampbell Analytical ☐ Other:

EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

FIELD LOG

☒ GROUNDWATER	☐ SURFACE WATER	☐ DOMESTIC WATER	☐ IRRIGATION WATER	☐ WELL DEVELOPMENT

Project No: 0302	Field point name: LHW-1/2
Global ID: T0604500291	Well depth from TOC:
Project location: 3300 N HWY #1	Well diameter: ☐ 2" ☐ 4 " ☐ 6" ☐ Other:
Date: 12/29/05	Product level from TOC:
Time: 8:00	Water level from TOC:
Recorded by: CJ / JM	Screened interval:
Purge time (duration):	Well elevation (TOC):

WEATHER

Wind: 0 - 5 MPH	Precip. in last 5 days: yes

VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

☐ 2" well = 0.17 gal/ft	☐ 6" well = 1.47 gal/ft	Gallons in 1 well volume:	
☐ 4" well = 0.66 gal/ft	☐ " well = gal/ft	Total gallons removed:	Well volumes removed:

CALIBRATION

Parameter	Time	Calibration	Before Sampling	Time	After Sampling
EC:					

FIELD MEASUREMENTS

Time	pH	EC	Temp °F	ORP mV	D O mg/l	Case Volume gal.	Appearance
						1/	
						2/	
						3/	
						/	

Notes: collect sample from hose bib on east side of restaurant between the two entrances. Run pump for 5min prior to collecting sample.

Water level after purging below TOC:	80% of original water level below TOC:
Water level before sampling below TOC:	
Appearance of sample:	Time:

☐ Bailer:	Type:	GPM:	☐ Type: Submersible	
☒ Dedicated:	Type:	GPM: 10-12	Decontamination method: Liquinox wash, double rinse	

Sample analysis:	☒ TPHg	☐ TPHd	☐ TPH	☒ BTEX	☒ 7 oxygenates	☐ Lead scavengers	☐ VOCs	☐ Nitrates
EPA Method:								

Other: ☐

LABORATORY: ☒ McCampbell Analytical ☐ Other:

EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

FIELD LOG

Duck Pond

☐ GROUNDWATER	☒ SURFACE WATER	☐ DOMESTIC WATER	☐ IRRIGATION WATER	☐ WELL DEVELOPMENT

Project No: 0302	Field point name: DP
Global ID: T0604500291	Well depth from TOC:
Project location: 3300 N Hwy #1	Well diameter: ☐ 2" ☐ 4 " ☐ 6" ☐ Other:
Date: 12/29/05	Product level from TOC:
Time: 8:00	Water level from TOC:
Recorded by: CS / JM	Screened interval:
Purge time (duration):	Well elevation (TOC):

WEATHER

Wind: 0 – 5 MPH	Precip. in last 5 days: Yes

VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

☐ 2" well = 0.17 gal/ft	☐ 6" well = 1.47 gal/ft	Gallons in 1 well volume:	
☐ 4" well = 0.66 gal/ft	☐ " well = gal/ft	Total gallons removed:	Well volumes removed:

CALIBRATION

Parameter	Time	Calibration	Before Sampling	Time	After Sampling
EC:					

FIELD MEASUREMENTS

Time	pH	EC	Temp °F	ORP mV	D O mg/l	Case Volume gal.	Appearance
						1/	
						2/	
						3/	
						/	

Notes: collect Sample From NW corner of Duck Pond

Water level after purging below TOC:	80% of original water level below TOC:
Water level before sampling below TOC:	
Appearance of sample:	Time:

☐ Bailer:	Type:	GPM:	☐ Pump: ES-	Type: Submersible	GPM: 1 - 2
☐ Dedicated:	Type:	GPM:	Decontamination method: Liquinox wash, double rinse		

Sample analysis:	☐ TPHg	☐ TPHd	☐ TPH	☐ BTEX	☒ 7 oxygenates	☐ Lead scavengers	☐ VOCs	☐ Nitrates
EPA Method:								

Other: ☐

LABORATORY: ☒ McCampbell Analytical ☐ Other:

EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

SOUTH OF SITE
DUCK POND DRAINAGE

FIELD LOG

GROUNDWATER	☒ SURFACE WATER	☐ DOMESTIC WATER	☐ IRRIGATION WATER	☐ WELL DEVELOPMENT

Project No: 0302	Field point name: SW-1
Global ID: T0604500291	Well depth from TOC:
Project location: 3300 N HWY #1	Well diameter: ☐ 2" ☐ 4 " ☐ 6" ☐ Other:
Date: 12/29/05	Product level from TOC:
Time: 8:00	Water level from TOC:
Recorded by: CS JM	Screened interval:
Purge time (duration):	Well elevation (TOC):

WEATHER

Wind: 0 - 5 MPH	Precip. in last 5 days: yes

VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

☐ 2" well = 0.17 gal/ft	☐ 6" well = 1.47 gal/ft	Gallons in 1 well volume:	
☐ 4" well = 0.66 gal/ft	☐ " well = gal/ft	Total gallons removed:	Well volumes removed:

CALIBRATION

Parameter	Time	Calibration	Before Sampling	Time	After Sampling
EC:					

FIELD MEASUREMENTS

Time	pH	EC	Temp °F	ORP mV	D O mg/l	Case Volume gal.	Appearance
						1/	low to med turbidity
						2/	
						3/	
						/	

Notes: SAMPLE COLLECTED ALONG DUCK POND DRAINAGE SOUTH EAST OF MW-10 3/3 JUST BELOW SMALL DAM

Water level after purging below TOC:	80% of original water level below TOC:
Water level before sampling below TOC:	
Appearance of sample:	Time: 250

☐ Bailer:	Type:	GPM:	~~☒ Pump: ES-10~~ Type: Submersible	~~GPM: 1-2~~
☐ Dedicated:	Type:	GPM:	Decontamination method: Liquinox wash, double rinse	

Sample analysis:	☐ TPHg	☐ TPHd	☐ TPH	☐ BTEX	☒ 7 oxygenates	☐ Lead scavengers	☐ VOCs	☐ Nitrates
EPA Method:								

Other: ☐

LABORATORY: ☒ McCampbell Analytical ☐ Other:

EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

NORTH OF SITE
SWALE N OF MW-7 & MW-14

FIELD LOG

GROUNDWATER	☒ SURFACE WATER	☐ DOMESTIC WATER	☐ IRRIGATION WATER	☐ WELL DEVELOPMENT

Project No: 0302	Field point name: SW-4
Global ID: T0604500291	Well depth from TOC:
Project location: 3300 N HWY #1	Well diameter: ☐ 2" ☐ 4 " ☐ 6" ☐ Other:
Date: 12/29/05	Product level from TOC:
Time: 8:00	Water level from TOC:
Recorded by: CJ / SM	Screened interval:
Purge time (duration):	Well elevation (TOC):

WEATHER

Wind: 0 – 5 MPH	Precip. in last 5 days: yes

VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

☐ 2" well = 0.17 gal/ft	☐ 6" well = 1.47 gal/ft	Gallons in 1 well volume:	
☐ 4" well = 0.66 gal/ft	☐ " well = gal/ft	Total gallons removed:	Well volumes removed:

CALIBRATION

Parameter	Time	Calibration	Before Sampling	Time	After Sampling
EC:					

FIELD MEASUREMENTS

Time	pH	EC	Temp °F	ORP mV	D O mg/l	Case Volume gal.	Appearance
						1/	Clear, low turbidity
						2/	
						3/	
						/	

Notes: Sample collected from swale N of MW-14 10 ft

Water level after purging below TOC:	80% of original water level below TOC:
Water level before sampling below TOC:	
Appearance of sample:	Time: 305

☐ Bailer:	Type:	GPM:	Type: Submersible	
☐ Dedicated:	Type:	GPM:	Decontamination method: Liquinox wash, double rinse	

Sample analysis:	☐ TPHg	☐ TPHd	☐ TPH	☐ BTEX	☒ 7 oxygenates	☐ Lead scavengers	☐ VOCs	☐ Nitrates
EPA Method:								

Other: ☐

LABORATORY: ☒ McCampbell Analytical ☐ Other:

Appendix B

Analytical Laboratory Report

RECEIVED
JAN 13 2006
BY:

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone: 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

Edd Clark & Associates, Inc.	Client Project ID: #0302; Albion Shell	Date Sampled:	12/29/05
320 Professional Center Ste. 215		Date Received:	12/30/05
Rohnert Park, CA 94928	Client Contact: Chris Janiszewski	Date Reported:	01/09/06
	Client P.O.:	Date Completed:	01/09/06

WorkOrder: 0512550

January 09, 2006

Dear Chris:

Enclosed are:

1). the results of **13** analyzed samples from your **#0302; Albion Shell project,**

2). a QC report for the above samples

3). a copy of the chain of custody, and

4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Best regards,

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

Edd Clark & Associates, Inc.	Client Project ID: #0302; Albion Shell	Date Sampled: 12/29/05
320 Professional Center Ste. 215		Date Received: 12/30/05
Rohnert Park, CA 94928	Client Contact: Chris Janiszewski	Date Extracted: 01/04/06-01/05/06
	Client P.O.:	Date Analyzed: 01/04/06-01/05/06

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method: SW5030B Analytical methods: SW8021B/8015Cm Work Order: 0512550

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-2	W	4300,a	---	610	9.6	210	220	10	89
002A	MW-6	W	23,000,a	---	940	97	750	2800	20	103
005A	MW-15	W	98,000,a	---	17,000	11,000	1700	7200	50	109
006A	MW-16	W	89,000,a	---	16,000	5900	1900	8700	100	101
007A	MW-17	W	ND	---	ND	ND	ND	ND	1	104
008A	MW-18	W	8300,a	---	1300	200	330	360	10	115
009A	DW-1	W	ND	---	ND	ND	ND	ND	1	104
010A	LHW 1/2	W	ND	---	ND	ND	ND	ND	1	104

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	1	µg/L
	S	NA	NA	NA	NA	NA	NA	1	mg/Kg

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

Edd Clark & Associates, Inc.	Client Project ID: #0302; Albion Shell	Date Sampled: 12/29/05
320 Professional Center Ste. 215		Date Received: 12/30/05
Rohnert Park, CA 94928	Client Contact: Chris Janiszewski	Date Extracted: 01/04/06-01/05/06
	Client P.O.:	Date Analyzed: 01/04/06-01/05/06

Oxygenated Volatile Organics by P&T and GC/MS*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0512550

Lab ID	0512550-001B	0512550-002B	0512550-003A	0512550-004A	Reporting Limit for DF =1	
Client ID	MW-2	MW-6	MW-9	MW-11		
Matrix	W	W	W	W		
DF	500	500	1	1	S	W
Compound	**Concentration**				ug/kg	µg/L
tert-Amyl methyl ether (TAME)	ND<250	ND<250	ND	ND	NA	0.5
t-Butyl alcohol (TBA)	ND<2500	ND<2500	ND	ND	NA	5.0
Diisopropyl ether (DIPE)	ND<250	ND<250	ND	ND	NA	0.5
Ethanol	ND<25,000	ND<25,000	ND	ND	NA	50
Ethyl tert-butyl ether (ETBE)	ND<250	ND<250	ND	ND	NA	0.5
Methanol	ND<250,000	ND<250,000	ND	ND	NA	500
Methyl-t-butyl ether (MTBE)	6500	6900	ND	ND	NA	0.5
Surrogate Recoveries (%)						
%SS1:	109	109	107	107		
Comments						

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

Edd Clark & Associates, Inc.	Client Project ID: #0302; Albion Shell	Date Sampled: 12/29/05
320 Professional Center Ste. 215		Date Received: 12/30/05
Rohnert Park, CA 94928	Client Contact: Chris Janiszewski	Date Extracted: 01/04/06-01/05/06
	Client P.O.:	Date Analyzed: 01/04/06-01/05/06

Oxygenated Volatile Organics by P&T and GC/MS*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0512550

Lab ID	0512550-005B	0512550-006B	0512550-007B	0512550-008B	Reporting Limit for DF =1	
Client ID	MW-15	MW-16	MW-17	MW-18		
Matrix	W	W	W	W		
DF	2000	5000	2	2000	S	W
Compound	**Concentration**				ug/kg	µg/L
tert-Amyl methyl ether (TAME)	ND<1000	ND<2500	ND<1.0	ND<1000	NA	0.5
t-Butyl alcohol (TBA)	ND<10,000	ND<25,000	ND<10	ND<10,000	NA	5.0
Diisopropyl ether (DIPE)	ND<1000	ND<2500	ND<1.0	ND<1000	NA	0.5
Ethanol	ND<100,000	ND<250,000	ND<100	ND<100,000	NA	50
Ethyl tert-butyl ether (ETBE)	ND<1000	ND<2500	ND<1.0	ND<1000	NA	0.5
Methanol	ND<1,000,000	ND<2,500,000	ND<1000	ND<1,000,000	NA	500
Methyl-t-butyl ether (MTBE)	23,000	59,000	54	20,000	NA	0.5
Surrogate Recoveries (%)						
%SS1:	105	107	113	106		
Comments						

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

Edd Clark & Associates, Inc.	Client Project ID: #0302; Albion Shell	Date Sampled: 12/29/05
320 Professional Center Ste. 215		Date Received: 12/30/05
Rohnert Park, CA 94928	Client Contact: Chris Janiszewski	Date Extracted: 01/04/06-01/05/06
	Client P.O.:	Date Analyzed: 01/04/06-01/05/06

Oxygenated Volatile Organics by P&T and GC/MS*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0512550

Lab ID	0512550-009B	0512550-010B	0512550-011A	0512550-012A	Reporting Limit for DF =1	
Client ID	DW-1	LHW 1/2	DP	SW-1		
Matrix	W	W	W	W		
DF	1	1	1	1	S	W
Compound	**Concentration**				ug/kg	µg/L
tert-Amyl methyl ether (TAME)	ND	ND	ND	ND	NA	0.5
t-Butyl alcohol (TBA)	ND	ND	ND	ND	NA	5.0
Diisopropyl ether (DIPE)	ND	ND	ND	ND	NA	0.5
Ethanol	ND	ND	ND	ND	NA	50
Ethyl tert-butyl ether (ETBE)	ND	ND	ND	ND	NA	0.5
Methanol	ND	ND	ND	ND	NA	500
Methyl-t-butyl ether (MTBE)	ND	ND	ND	4.4	NA	0.5
Surrogate Recoveries (%)						
%SS1:	107	105	109	107		
Comments						

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

Edd Clark & Associates, Inc.	Client Project ID: #0302; Albion Shell	Date Sampled: 12/29/05
320 Professional Center Ste. 215		Date Received: 12/30/05
Rohnert Park, CA 94928	Client Contact: Chris Janiszewski	Date Extracted: 01/04/06-01/05/06
	Client P.O.:	Date Analyzed: 01/04/06-01/05/06

Oxygenated Volatile Organics by P&T and GC/MS*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0512550

Lab ID	0512550-013A				Reporting Limit for DF =1	
Client ID	SW-4					
Matrix	W					
DF	1				S	W
Compound	**Concentration**				ug/kg	µg/L
tert-Amyl methyl ether (TAME)	ND				NA	0.5
t-Butyl alcohol (TBA)	ND				NA	5.0
Diisopropyl ether (DIPE)	ND				NA	0.5
Ethanol	ND				NA	50
Ethyl tert-butyl ether (ETBE)	ND				NA	0.5
Methanol	ND				NA	500
Methyl-t-butyl ether (MTBE)	ND				NA	0.5
Surrogate Recoveries (%)						
%SS1:	106					
Comments						

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

Edd Clark & Associates, Inc.	Client Project ID: #0302; Albion Shell	Date Sampled: 12/29/05
320 Professional Center Ste. 215		Date Received: 12/30/05
Rohnert Park, CA 94928	Client Contact: Chris Janiszewski	Date Extracted: 12/30/05
	Client P.O.:	Date Analyzed: 01/03/06

Metals*

Extraction method: E200.8 Analytical methods: E200.8 Work Order: 0512550

Lab ID	Client ID	Matrix	Extraction	Molybdenum	Selenium	Vanadium	DF	% SS
001D	MW-2	W	DISS.	1.7	0.54	ND	1	N/A
002D	MW-6	W	DISS.	0.67	ND	ND	1	N/A
005D	MW-15	W	DISS.	0.61	0.96	ND	1	N/A
006D	MW-16	W	DISS.	1.2	1.7	ND	1	N/A
007D	MW-17	W	DISS.	1.7	ND	ND	1	N/A
008D	MW-18	W	DISS.	0.67	ND	ND	1	N/A

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	DISS.	0.5	0.5	0.5	µg/L
	S	TTLC	NA	NA	NA	NA

*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

i) aqueous sample containing greater than ~1 vol. % sediment; for DISSOLVED metals, this sample has been preserved prior to filtration; for TTLC metals, a representative sediment-water mixture was digested; j) reporting limit raised due to insufficient sample amount; k) reporting limit raised due to matrix interference; m) estimated value due to low/high surrogate recovery; n) results are reported on a dry weight basis; p) see attached narrative.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

Edd Clark & Associates, Inc.	Client Project ID: #0302; Albion Shell	Date Sampled: 12/29/05
320 Professional Center Ste. 215		Date Received: 12/30/05
Rohnert Park, CA 94928	Client Contact: Chris Janiszewski	Date Extracted: 12/30/05
	Client P.O.:	Date Analyzed: 01/04/06

Hexachrome by IC*

Analytical Method: E218.6

Work Order: 0512550

Lab ID	Client ID	Matrix	Hexachrome	DF
0512550-001E	MW-2	W	ND	1
0512550-002E	MW-6	W	ND	1
0512550-005E	MW-15	W	ND	1
0512550-006E	MW-16	W	ND	1
0512550-007E	MW-17	W	ND	1
0512550-008E	MW-18	W	ND	1

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	0.2 µg/L	
	S	NA	

* water samples are reported in µg/L.

N/A means surrogate not applicable to this analysis; # surrogate diluted out of range or surrogate coelutes with another peak.

h) a lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to matrix interference; p) see attached narrative.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

Edd Clark & Associates, Inc.	Client Project ID: #0302; Albion Shell	Date Sampled: 12/29/05
320 Professional Center Ste. 215		Date Received: 12/30/05
Rohnert Park, CA 94928	Client Contact: Chris Janiszewski	Date Extracted: 12/30/05
	Client P.O.:	Date Analyzed: 01/06/06-01/07/06

Inorganic Anions by IC*

Analytical methods: E300.1

Work Order: 0512550

Lab ID	Client ID	Matrix	Bromide	DF	% SS
0512550-001C	MW-2	W	0.83	1	95
0512550-002C	MW-6	W	0.74	1	96
0512550-005C	MW-15	W	1.4	1	93
0512550-006C	MW-16	W	0.62	1	96
0512550-007C	MW-17	W	ND	1	96
0512550-008C	MW-18	W	1.2	1	99

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	0.1	mg/L
	S	NA	NA

* water samples are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in mg/wipe, product/oil/non-aqueous liquid samples in mg/L.

surrogate diluted out of range or surrogate coelutes with another peak; N/A means surrogate not applicable to this analysis.

h) a lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted/raised due to high inorganic content/matrix interference; k) sample arrived with head space.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

Edd Clark & Associates, Inc. 320 Professional Center Ste. 215 Rohnert Park, CA 94928	Client Project ID: #0302; Albion Shell	Date Sampled: 12/29/05
		Date Received: 12/30/05
	Client Contact: Chris Janiszewski	Date Extracted: 12/30/05
	Client P.O.:	Date Analyzed: 01/03/06-01/04/06

Inorganic Anions by IC*

Analytical methods: E300.1

Work Order: 0512550

Lab ID	Client ID	Matrix	Bromate	DF	% SS
0512550-001C	MW-2	W	ND<0.025,j	5	N/A
0512550-002C	MW-6	W	ND<0.025,j	5	N/A
0512550-005C	MW-15	W	ND<0.025,j	5	N/A
0512550-006C	MW-16	W	ND<0.025,j	5	N/A
0512550-007C	MW-17	W	ND<0.025,j	5	N/A
0512550-008C	MW-18	W	ND<0.025,j	5	N/A

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	0.005	mg/L
	S	NA	NA

* water samples are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in mg/wipe, product/oil/non-aqueous liquid samples in mg/L.

surrogate diluted out of range or surrogate coelutes with another peak; N/A means surrogate not applicable to this analysis.

h) a lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high inorganic content; k) sample arrived with head space.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water | QC Matrix: Water | WorkOrder: 0512550

EPA Method: SW8021B/8015Cm **Extraction: SW5030B** **BatchID: 19686** **Spiked Sample ID: 0512554-005A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex)[£]	ND	60	104	101	3.28	104	105	0.765	70 - 130	70 - 130
MTBE	ND	10	100	98.8	1.64	99.4	98.2	1.23	70 - 130	70 - 130
Benzene	ND	10	101	97.1	4.10	98.2	97.7	0.574	70 - 130	70 - 130
Toluene	ND	10	102	97.7	4.17	99.2	98.4	0.754	70 - 130	70 - 130
Ethylbenzene	ND	10	103	101	1.84	100	98.1	2.10	70 - 130	70 - 130
Xylenes	ND	30	103	100	3.28	100	100	0	70 - 130	70 - 130
%SS:	104	10	100	101	0.726	100	103	3.34	70 - 130	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 19686 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0512550-001A	12/29/05	1/05/06	1/05/06 3:13 AM	0512550-001A	12/29/05	1/05/06	1/05/06 7:49 PM
0512550-002A	12/29/05 4:00 PM	1/04/06	1/04/06 11:26 PM	0512550-005A	12/29/05 4:30 PM	1/04/06	1/04/06 11:56 PM
0512550-006A	12/29/05 4:15 PM	1/05/06	1/05/06 12:26 AM	0512550-006A	12/29/05 4:15 PM	1/05/06	1/05/06 4:52 PM
0512550-007A	12/29/05 3:15 PM	1/05/06	1/05/06 8:18 AM	0512550-008A	12/29/05 3:45 PM	1/05/06	1/05/06 12:55 AM
0512550-008A	12/29/05 3:45 PM	1/05/06	1/05/06 5:51 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not applicable or not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS Certification No. 1644

LR QA/QC Officer

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0512550

EPA Method: SW8021B/8015Cm **Extraction: SW5030B** **BatchID: 19700** **Spiked Sample ID: 0512554-013A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex)[£]	ND	60	103	99.1	4.30	97.7	102	4.00	70 - 130	70 - 130
MTBE	ND	10	101	99.4	1.92	109	107	1.28	70 - 130	70 - 130
Benzene	ND	10	83.8	86.6	3.25	104	104	0	70 - 130	70 - 130
Toluene	ND	10	85.7	87.5	2.16	102	104	1.74	70 - 130	70 - 130
Ethylbenzene	ND	10	86.4	88.2	2.08	102	106	3.57	70 - 130	70 - 130
Xylenes	ND	30	85.3	90	5.32	100	107	6.45	70 - 130	70 - 130
%SS:	103	10	98	97	1.72	101	102	1.00	70 - 130	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 19700 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0512550-009A	12/29/05 2:10 PM	1/05/06	1/05/06 8:50 AM	0512550-010A	12/29/05 2:20 PM	1/05/06	1/05/06 12:15 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not applicable or not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS Certification No. 1644

LR QA/QC Officer

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water | QC Matrix: Water | WorkOrder: 0512550

EPA Method: SW8260B **Extraction: SW5030B** **BatchID: 19682** **Spiked Sample ID: 0512539-002B**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
tert-Amyl methyl ether (TAME)	ND	10	99.3	102	2.41	104	100	3.80	70 - 130	70 - 130
t-Butyl alcohol (TBA)	ND	50	94.5	93.6	0.919	85.2	90.2	5.64	70 - 130	70 - 130
Diisopropyl ether (DIPE)	ND	10	89.1	91	2.05	93	88.2	5.29	70 - 130	70 - 130
Ethanol	ND	500	102	94.1	7.62	93.1	88.8	4.68	70 - 130	70 - 130
Ethyl tert-butyl ether (ETBE)	ND	10	86.5	89.7	3.66	91.3	88.7	2.94	70 - 130	70 - 130
Methanol	ND	2500	101	99.4	1.92	99	98.9	0.0695	70 - 130	70 - 130
Methyl-t-butyl ether (MTBE)	ND	10	90	92.4	2.59	95	88.7	6.85	70 - 130	70 - 130
%SS1:	110	10	98	98	0	100	99	1.61	70 - 130	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 19682 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0512550-001B	12/29/05	1/05/06	1/05/06 4:46 PM	0512550-002B	12/29/05 4:00 PM	1/05/06	1/05/06 5:29 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

DHS Certification No. 1644

LR QA/QC Officer

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water | QC Matrix: Water | WorkOrder: 0512550

EPA Method: SW8260B **Extraction: SW5030B** **BatchID: 19697** **Spiked Sample ID: 0512549-009B**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
tert-Amyl methyl ether (TAME)	ND	10	101	97.8	3.04	101	102	0.663	70 - 130	70 - 130
t-Butyl alcohol (TBA)	ND	50	88.3	87.3	1.20	93.1	90.5	2.85	70 - 130	70 - 130
Diisopropyl ether (DIPE)	ND	10	94.6	92.4	2.32	94.9	94.7	0.247	70 - 130	70 - 130
Ethanol	ND	500	97.7	93	4.88	99	85.2	15.0	70 - 130	70 - 130
Ethyl tert-butyl ether (ETBE)	ND	10	90.9	88.4	2.71	89.7	91.3	1.73	70 - 130	70 - 130
Methanol	ND	2500	99.5	99.9	0.427	98.6	96.8	1.86	70 - 130	70 - 130
Methyl-t-butyl ether (MTBE)	0.7	10	84.3	80.9	3.78	91.7	91.2	0.618	70 - 130	70 - 130
%SS1:	108	10	97	99	2.29	99	99	0	70 - 130	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 19697 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0512550-003A	12/29/05 3:00 PM	1/04/06	1/04/06 1:09 AM	0512550-004A	12/29/05 2:45 PM	1/04/06	1/04/06 1:51 AM
0512550-005B	12/29/05 4:30 PM	1/05/06	1/05/06 6:11 PM	0512550-006B	12/29/05 4:15 PM	1/05/06	1/05/06 6:54 PM
0512550-007B	12/29/05 3:15 PM	1/05/06	1/05/06 2:43 AM	0512550-008B	12/29/05 3:45 PM	1/05/06	1/05/06 7:37 PM
0512550-009B	12/29/05 2:10 PM	1/04/06	1/04/06 5:23 AM	0512550-010B	12/29/05 2:20 PM	1/04/06	1/04/06 6:05 AM
0512550-011A	12/29/05 2:30 PM	1/04/06	1/04/06 6:48 AM	0512550-012A	12/29/05 2:50 PM	1/04/06	1/04/06 7:30 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

DHS Certification No. 1644

LR QA/QC Officer

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0512550

EPA Method: SW8260B **Extraction: SW5030B** **BatchID: 19702** **Spiked Sample ID: 0512550-013A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
tert-Amyl methyl ether (TAME)	ND	10	101	105	3.02	109	108	0.591	70 - 130	70 - 130
t-Butyl alcohol (TBA)	ND	50	87.4	92.6	5.77	98.3	87	12.2	70 - 130	70 - 130
Diisopropyl ether (DIPE)	ND	10	94.4	96	1.63	97.4	96.9	0.497	70 - 130	70 - 130
Ethanol	ND	500	98.1	96.4	1.81	99.2	94.5	4.93	70 - 130	70 - 130
Ethyl tert-butyl ether (ETBE)	ND	10	89.1	92.8	4.03	94.2	94.6	0.422	70 - 130	70 - 130
Methanol	ND	2500	97.9	100	2.50	99.5	101	0.988	70 - 130	70 - 130
Methyl-t-butyl ether (MTBE)	ND	10	92.1	95.1	3.26	97.1	96.6	0.448	70 - 130	70 - 130
%SS1:	106	10	102	102	0	97	96	0.432	70 - 130	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 19702 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0512550-013A	12/29/05 3:05 PM	1/04/06	1/04/06 8:12 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

DHS Certification No. 1644

LR QA/QC Officer

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR E200.8

W.O. Sample Matrix: Water | QC Matrix: Water | WorkOrder: 0512550

EPA Method: E200.8 | **Extraction: E200.8** | **BatchID: 19643** | **Spiked Sample ID: 0512487-001C**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Molybdenum	ND	10	97.1	97.5	0.401	93.1	92.6	0.506	75 - 125	85 - 115
Selenium	ND	10	96.5	97.3	0.857	98.2	96.9	1.28	75 - 125	85 - 115
Vanadium	16	10	105	110	2.03	97	95.3	1.81	75 - 125	85 - 115
%SS:	102	750	109	111	2.03	101	99	1.72	70 - 130	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 19643 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0512550-001D	12/29/05	12/30/05	1/03/06 1:40 PM	0512550-002D	12/29/05 4:00 PM	12/30/05	1/03/06 1:48 PM
0512550-005D	12/29/05 4:30 PM	12/30/05	1/03/06 2:40 PM	0512550-006D	12/29/05 4:15 PM	12/30/05	1/03/06 3:03 PM
0512550-007D	12/29/05 3:15 PM	12/30/05	1/03/06 3:11 PM	0512550-008D	12/29/05 3:45 PM	12/30/05	1/03/06 3:20 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS Certification No. 1644

LR QA/QC Officer

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR E218.6

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0512550

EPA Method: E218.6 **Extraction: E218.6** **BatchID: 19621** **Spiked Sample ID: 0512469-002f**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Hexachrome	ND	25	104	105	1.65	97.4	99	1.67	90 - 110	90 - 110

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 19621 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0512550-001E	12/29/05	12/30/05	1/04/06 4:18 AM	0512550-002E	12/29/05 4:00 PM	12/30/05	1/04/06 4:56 PM
0512550-005E	12/29/05 4:30 PM	12/30/05	1/04/06 5:35 AM	0512550-006E	12/29/05 4:15 PM	12/30/05	1/04/06 6:13 PM
0512550-007E	12/29/05 3:15 PM	12/30/05	1/04/06 6:52 PM	0512550-008E	12/29/05 3:45 PM	12/30/05	1/04/06 7:31 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

JR QA/QC Officer

DHS Certification No. 1644

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR E300.1

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0512550

EPA Method: E300.1 **Extraction: E300.1** **BatchID: 19698** **Spiked Sample ID: N/A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Bromate	N/A	0.040	N/A	N/A	N/A	100	102	1.59	N/A	90 - 115

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 19698 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0512550-001C	12/29/05	12/30/05	1/03/06 11:46 PM	0512550-002C	12/29/05 4:00 PM	12/30/05	1/04/06 12:26 AM
0512550-005C	12/29/05 4:30 PM	12/30/05	1/04/06 1:06 AM	0512550-006C	12/29/05 4:15 PM	12/30/05	1/04/06 1:45 AM
0512550-007C	12/29/05 3:15 PM	12/30/05	1/03/06 7:48 AM	0512550-008C	12/29/05 3:45 PM	12/30/05	1/04/06 2:25 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

JR QA/QC Officer

DHS Certification No. 1644

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR E300.1

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0512550

EPA Method: E300.1 **Extraction: E300.1** **BatchID: 19641** **Spiked Sample ID: N/A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Bromide	N/A	1	N/A	N/A	N/A	98	101	3.33	N/A	85 - 115
%SS:	N/A	0.10	N/A	N/A	N/A	104	104	0	N/A	90 - 115

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 19641 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0512550-001C	12/29/05	12/30/05	1/07/06 4:31 AM	0512550-002C	12/29/05 4:00 PM	12/30/05	1/07/06 5:02 AM
0512550-005C	12/29/05 4:30 PM	12/30/05	1/07/06 5:33 AM	0512550-006C	12/29/05 4:15 PM	12/30/05	1/07/06 6:03 AM
0512550-007C	12/29/05 3:15 PM	12/30/05	1/07/06 6:34 AM	0512550-008C	12/29/05 3:45 PM	12/30/05	1/06/06 10:23 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS Certification No. 1644

LR QA/QC Officer

Edd Clark & Associates, Inc.
Environmental Consultants

QCAV 0512550

Chain of Custody Report

P.O. Box 3039, Rohnert Park, CA 94927
Tel: (707) 792-9500 (800) 474-1448 Fax: (707) 792-9504

E-mail in EDF for Upload to Geotracker: Yes ☒ No ☐ Initials CJ

Samplers Signature: CHRIS JANISCEWSKI

EC&A job # 0302

Global I.D. # T0604500291

Facility Name & Location: ALBION SHELL 3300 N. HWY #1 ALBION CA

	Field Point Name	Date	Time	Sample ID (depth)	Sample Type	Media	# of Items V/A	TPHG BTEX	7 OXYGENATES 8260	BROMIDE BROMATE TOTAL	VANADIUM SELENIUM MOLYBDENUM DISSOLVED	HEXACHROME	Remarks
(+)	MW-2	12/29/05	330		discrete	W	3/2	X	X	X	X	X	Filter metals @ LAB
+	MW-6	12/29/05	400				3/2	X	X	X	X	X	Filter metals @ LAB
(+)	MW-9		300				2		X				
+1	MW-11		245				2		X				
(+)	MW-15		430				3/2	X	X	X	X	X	Filter metals @ LAB
(+)	MW-16		415				3/2	X	X	X	X	X	Filter metals @ LAB
(+)	MW-17		315				3/2		X	X	X	X	Filter metals @ LAB
(+)	MW-18		345				3/2	X	X	X	X	X	Filter metals @ LAB

Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date:	Time:	Received by:
	12/30/05	1030			12/31/05	445	
Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date:	Time:	Received by:

Edd Clark & Associates, Inc.
Environmental Consultants

[redacted]
PCAR

Chain of Custody Report

P.O. Box 3039, Rohnert Park, CA 94927
Tel: (707) 792-9500 (800) 474-1448 Fax: (707) 792-9504

E-mail in EDF for Upload to Geotracker:
Yes ☒ No ☐ Initials CJ

Samplers Signature: CHRIS JAMSZEWSKI

EC&A job # 0302

Global I.D. # T0604500291

Facility Name & Location: ALBION SHELL 3300 N. HWY #1 ALBION CA

	Field Point Name	Date	Time	Sample ID (depth)	Sample Type	Media	# of Items	TPH9 BTEX	7 OXYGENATES 8260				Remarks
+1	DW-1	12/29/05	210		discrete	W	3	X	X				
+	LHW 1/2	↓	220		↓	↓	3	X	X				
+1	DP	↓	230		↓	↓	3		X				
+1	SW-1	↓	250		↓	↓	2		X				
+1	SW-4	↓	305		↓	↓	2		X				

Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date:	Time:	Received by:
[signature]	12/30/05	1030	[signature]	[signature]	12/31	445	Jeanette Verenzo
Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date:	Time:	Received by:

McCampbell Analytical, Inc.
110 Second Avenue South, #D7
Pacheco, CA 94553-5560
(925) 798-1620

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0512550 **ClientID: ECAR** **EDF: YES**

Report to:
Chris Janiszewski
Edd Clark & Associates, Inc.
320 Professional Center Ste. 215
Rohnert Park, CA 94928

TEL: (707) 792-9500
FAX: (707) 792-9504
ProjectNo: #0302; Albion Shell
PO:

Bill to:
Accounts Payable
Edd Clark & Associates, Inc.
320 Professional Center Ste.215
Rohnert Park, CA 94928

Requested TAT: 5 days

Date Received: 12/30/2005
Date Printed: 12/30/2005

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below) 1	2	3	4	5	6	7	8	9	10	11	12
0512550-001	MW-2	Water	12/29/05	☐	E	C	C	B	A	D	D	A				
0512550-002	MW-6	Water	12/29/05 4:00:00	☐	E	C	C	B	A	D	D					
0512550-003	MW-9	Water	12/29/05 3:00:00	☐				A								
0512550-004	MW-11	Water	12/29/05 2:45:00	☐				A								
0512550-005	MW-15	Water	12/29/05 4:30:00	☐	E	C	C	B	A	D	D					
0512550-006	MW-16	Water	12/29/05 4:15:00	☐	E	C	C	B	A	D	D					
0512550-007	MW-17	Water	12/29/05 3:15:00	☐	E	C	C	B	A	D	D					
0512550-008	MW-18	Water	12/29/05 3:45:00	☐	E	C	C	B	A	D	D					
0512550-009	DW-1	Water	12/29/05 2:10:00	☐				B	A							
0512550-010	LHW 1/2	Water	12/29/05 2:20:00	☐				B	A							
0512550-011	DP	Water	12/29/05 2:30:00	☐				A								
0512550-012	SW-1	Water	12/29/05 2:50:00	☐				A								
0512550-013	SW-4	Water	12/29/05 3:05:00	☐				A								

Test Legend:

1	218_6_W	2	300_1_W	3	300_1SPE_W	4	7-OXYS_W	5	G-MBTEX_W
6	METALSMS_DISS	7	PRDISSOLVED	8	PREDF REPORT	9		10	
11		12							

Prepared by: Rosa Venegas

Comments:

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

Appendix C

O&M Logs

EC&A OPERATIONS AND MAINTENANCE LOG

Page 1 of 1

Project and Task Number: 0302		Date: 10/27/05	
Project Name: ALBION SHELL		Project Location: 3300 N HWY #1	
Name: CHRIS J	Company: ECTA	In:	Out:

TIME	DESCRIPTION OF WORK PERFORMED
	SYSTEM RUNNING .21 PPM O3 OUT OF COMP
	OPEN COMPRESSOR REPLACE PISTON FLIP CYL / INSTALL
	PRESSURE CHECK

Well ID														
Temp °F														
DO mg/L														
Sys clock	SP-1	SP-2	SP-3	SP-4	SP-5	SP-6	SP-7	SP-8	SP-9	SP-10	PISTON			
6791/92	24	26	30	24	29	26	26	28						

EC&A OPERATIONS AND MAINTENANCE LOG

Page 1 of _____

Project and Task Number: 0302		Date: 10/27/05 10/27/05	
Project Name: ALBION SHELL		Project Location: 3300 N HWY #1	
Name: CHRIS J	Company: ECTA	In:	Out:

TIME	DESCRIPTION OF WORK PERFORMED
	SYSTEM RUNNING .27 O3 OUT OF COMPRESSOR
	OPEN COMPRESSOR REPLACE PISTON
	CLEAN OUT PANEL
	Dele METER READING .00 PPM O3
	STATION BLD METER READING .00 PPM O3

Well ID														
Temp °F														
DO mg/L														
Sys clock	SP-1	SP-2	SP-3	SP-4	SP-5	SP-6	SP-7	SP-8	SP-9	SP-10	PISTON			
5968/90	25	25	25	26	24	25	28	25	24					

EC&A OPERATIONS AND MAINTENANCE LOG

Project and Task Number: 0302		Date: 10/27/05	
Project Name: ALBION SHELL		Project Location: 3300 N' HWY #1	
Name: CHRIS J	Company:	In:	Out:

TIME	DESCRIPTION OF WORK PERFORMED
	SYSTEM RUNNING .19 O^3 out of compressor
	open comp. change piston & flip cylinder / install
	pressure check

Well ID	17	2	16	15	6	18								
Temp °F	62.1	61.9	61.1	60.1	60.4	60.8								
DO mg/L	4.31	.19	.18	.13	.15	.27								
Sys clock	SP-1	SP-2	SP-3	SP-4	SP-5	SP-6	SP-7	SP-8	SP-9	SP-10	PISTON			
55 18/31	22	20	25	~~OFF~~ LEAK	22	23	26	25						

EC&A C ERATIONS AN MAINTENANCE LOG

Page 1 of 1

Project and Task Number: 0302		Date: 11/29/05	
Project Name: ALBION SHELL		Project Location: 3300 N HWY #1	
Name: CHRIS J	Company: ECTA	In:	Out:

TIME	DESCRIPTION OF WORK PERFORMED T-2 #0428
	SYSTEM RUNNING .03 ppm O3 OUT OF COMPRESSOR
	REPLACE BAD MANIFOLD PRESSURE TANK
	PRESSURE CHECK SYSTEM
	REPLACE IN PAN FILTER

Well ID	17	16	2	6	18	15								
Temp °F	64.1	59.7	58.9	59.8	61.7	56.5								
DO mg/L	.98	.26	.50	1.99	.40	.33								
Sys clock	SP-1	SP-2	SP-3	SP-4	SP-5	SP-6	SP-7	SP-8	SP-9	SP-10	Pressure gauge			
6492/30	25	25	26	26	25	24	26	24	22		Filter			

EC&A C ERATIONS AN MAINTENANCE LOG

Page 1 of 1

Project and Task Number: 0302		Date: 11/29/05	
Project Name: ALBION SHELL		Project Location: 3300 N HWY #1	
Name: CHRIS JANISZEWSKI	Company: ECTA	In:	Out:

TIME	DESCRIPTION OF WORK PERFORMED EXC
	SYSTEM RUNNING .02 ppm O3 OUT OF COMPRESSOR
	CLEAN OUT PANEL
	PRESSURE CHECK SYSTEM

Well ID		See	T-2	FOR	DO									
~~Temp °F~~ RUN TIME	11	12	11	0	12	12	11	11						
~~DO mg/L~~ STA	7	8	5	4	6	4	3	1						
Sys clock	SP-1	SP-2	SP-3	SP-4	SP-5	SP-6	SP-7	SP-8	SP-9	SP-10				
6194/05	20	19	23	24	20	22	24	24						

EC&A OPERATIONS AND MAINTENANCE LOG

Page 1 of 1

Project and Task Number: 0302	Date: 12/29/05
Project Name: Albion Shell	Project Location: 3300 N. Hwy 1

Name:	Company: EC&A	In:	Out:
Chris J			

TIME	DESCRIPTION OF WORK PERFORMED T-2
	SYSTEM RUNNING .09 PPM O3 out of compressor
	open compressor worn piston
	Replace piston re install
	pressure check

Well ID														
Temp °F			See T-2											
DO mg/L														
Sys clock	SP-1	SP-2	SP-3	SP-4	SP-5	SP-6	SP-7	SP-8	SP-9	SP-10	PISTON			
6832/3	20	20	22	/	20	21	23	23						

EC&A OPERATIONS AND MAINTENANCE LOG

Page 1 of 1

Project and Task Number: 0302	Date: 11/29/05
Project Name: [redacted] ALBION SHELL	Project Location: 3300 N Hwy #1

Name:	Company:	In:	Out:
CHRIS J	EC+A		

TIME	DESCRIPTION OF WORK PERFORMED T-1
	SYSTEM RUNNING .03 PPM O3 out of compressor
	clean out intake filter & tube
	dust panel
	pressure check system
	.00 PPM O3 IN Del & STATION HOUSE

Well ID														
Temp °F		See T-2 for D.O.												
DO mg/L														
Sys clock	SP-1	SP-2	SP-3	SP-4	SP-5	SP-6	SP-7	SP-8	SP-9	SP-10				
7496/41	24	24	28	20	29	25	25	27	/	/				

EC&A O ERATIONS AN MAINTENANCE LOG

Page 1 of 1

Project and Task Number: 0302		Date: 12/29/05	
Project Name: Albion Shell		Project Location: 3300 N. Hwy 1	
Name: Chris J	Company: EC&A	In:	Out:

TIME	DESCRIPTION OF WORK PERFORMED: T-2
	System Running .13 ppm O^3 out of compressor
	open compressor worn piston
	Replace piston reinstall +
	pressure check

Well ID														
Temp °F														
DO mg/L														
Sys clock	SP-1	SP-2	SP-3	SP-4	SP-5	SP-6	SP-7	SP-8	SP-9	SP-10				
7060/45	25	25	26	27	24	24	26	25	22					

EC&A C ERATIONS AI MAINTENANCE LOG

Page 1 of 1

Project and Task Number: 0302		Date: 12/29/05	
Project Name: Albion Shell		Project Location: 3300 N. Hwy 1	
Name: Chris J	Company: EC&A	In:	Out:

TIME	DESCRIPTION OF WORK PERFORMED: T-1
	System Running .10 O^3 out of compressor
	open compressor worn piston
	Replace piston reinstall pressure check
	.00 ppm O^3 inside Dell 5 station

Well ID														
Temp °F		See T-2												
DO mg/L														
Sys clock	SP-1	SP-2	SP-3	SP-4	SP-5	SP-6	SP-7	SP-8	SP-9	SP-10	PISTON			
8135/40	24	24	27	20	28	25	25	27						