REMEDIAL EXCAVATION/
SITE CLOSURE REPORT
October 14, 1998

Mobil Jalk Fee Property
10607 Norwalk Boulevard
Santa Fe Springs, California

Alton Project No. 23-0134

Prepared For:

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TABLE OF CONTENTS

SECTION PAGE

1.0 INTRODUCTION AND OBJECTIVES 1

2.0 SITE DESCRIPTION 1

3.0 SUMMARY OF REMEDIAL EXCAVATION ACTIVITIES 2
- 3.1 Pre-field Activities 3
- 3.2 Remedial Excavation 3
- 3.3 Soil Sampling 4
- 3.4 Backfill and Compaction 4
- 3.5 Soil Disposal 4

4.0 FINDINGS 5
- 4.1 Excavation I 5
- 4.2 Excavation II 5
- 4.3 Excavation III 5
- 4.4 Discussion of Remedial Progress from Excavation Activities 6

5.0 CONCLUSIONS AND REQUEST FOR SOIL CLOSURE 7

6.0 REFERENCES 8

TABLES

- 1 Results of Laboratory Analysis of Soil Samples
- 2A,B,C Results of Laboratory Analysis of Stockpile Samples

FIGURES

1 Vicinity Map
2 Site Plan
3 Remedial Excavations
4 Soil Sampling in Excavation I
5 Soil Sampling in Excavation II
6 Soil Sampling in Excavation III
7 Isoconcentration Map for TRPH in Soil at 5 FBG with Overlay of Remedial Excavations
8 Isoconcentration Map for TRPH in Soil at 5 FBG with Overlay of Remedial Excavations

APPENDICES

A Offal Laboratory Reports and General Field Procedures

B Compaction Report

C Manifests

D Summary of Site Assessment Data from June and July 1997

1.0 INTRODUCTION AND OBJECTIVES

This report presents the results of remedial excavation activities for the Mobil Jalk Fee Property, located at 10607 Norwalk Boulevard in Santa Fe Springs, California (Figure 1). This work has been conducted in accordance with the Alton Geoscience Site Assessment Report/Remedial Action Plan (RAP) dated October 10, 1997, as approved by the Regional Water Quality Control Board, Los Angeles Region (LARWQCB), in a letter dated November 19, 1997.

The general objective of any remedial action is to reduce the toxicity, mobility, or volume of contaminated materials. This objective is designed to remediate hazardous materials in a manner that will protect both public health and the environment. The recommended goals for the remediation of the site are to reduce contaminant concentrations in soil to levels acceptable to the LARWQCB; and/or demonstrate by risk assessment, monitoring, or modeling that the leaching potential of the contaminants present are not significant, and therefore, pose minimal risk to human health and the environment. Results of risk assessment and modeling of leaching potential are presented in the RAP (Alton, 1997). This report will outline the mass removal of contaminated concentrations in soil.

The objective of these remedial activities were to:

- Reduce the residual near-surface crude oil and chlorinated solvent concentrations in soil, through excavation, to levels that eliminate potential exposure pathways and allow site development activities to proceed.

- Obtain regulatory closure and no further action on soil issues at this site.

2.0 SITE DESCRIPTION

The site consists of approximately 8.8 acres of undeveloped land located in the southwest portion of an active oil field. The site has been used for oil production from the 1920s to the present; the current tenant, Hathaway Company, has conducted oil production activities since the 1980s (McLaren Hart, 1994b referencing Levine-Fricke, 1991a and 1991b). Current and previous site structures include the following:

- Four active oil production wells (three along the northern property boundary [Well #s 111, 112, and 113] and one along the southern property boundary [Well #117]) are present at the site (Figure 2). Five additional oil production wells were previously abandoned (McLaren Hart, 1994b referencing Levine-Fricke, 1991b).

- A tank battery consisting of six above-ground tanks is located in the northwest corner of the site (Figure 2).

- Eight former sumps (mud pits) associated with oil drilling and production have been observed in historic aerial photographs (Levine-Fricke, 1991b).

- From approximately 1920 to 1942, a small oil refuse area (boneyard area) used for the storage of metal objects was present in the southwest portion of the property (Figure 2) (Levine-Fricke, 1991b).

- In the late 1920s and early 1930s, above-ground storage tanks were located in the southeast portion of the property (Levine-Fricke, 1991b).

Trucking operations were performed in the central portion of the site (Figure 2; dates unknown; McLaren Hart 1996c). The northeastern portion of the site was, at one time, leased to a company that used solvents (dates, additional details not listed) (McLaren Hart, 1994b).

Adjacent properties have been developed for industrial and commercial use. The Continental Heat Treating, Inc. facility, located adjacent to the southeastern property boundary of the site, uses tetrachloroethene (PCE) for business operations. The company has been operating at this location since 1969 (McLaren Hart, 1993).

An ongoing groundwater characterization study is being conducted by the Oil Field Reclamation Project (OFRP) on approximately 272 acres of land adjacent to the site to the northeast. Area B of the OFRP project is located approximately 750 feet northeast (upgradient) of the Jalk Fee Property. The results of the OFRP study demonstrate that dissolved-phase hydrocarbons have impacted groundwater regionally with volatile organic compounds (VOCs) including benzene, PCE, and trichloroethene (TCE) and semi-volatile organic compounds (SVOCs) including phenolic compounds (McLaren Hart, 1996b).

3.0 SUMMARY OF REMEDIAL ACTIVITY

Excavation boundaries, as proposed in the RAP, were based on soil laboratory results obtained from 22 Geoprobe-type borings and 9 hollow stem auger borings drilled to total depths ranging from 17 to 62 fbg in June and July 1997 (Figure 3). Additionally, data from previous site assessment activities was compiled to further identify the lateral and vertical extent of TRPH- and chlorinated solvent-affected soil.

3.1 Prefield Activities

Underground Service Alert (USA ticket number: 124860) was notified on May 29, 1998. Additionally, a geophysical survey was performed on June 1, 1998, in the general vicinity of the proposed remedial excavations. Multiple subsurface utility lines associated with former and current oil field activities were identified.

Active subsurface lines associated with the ongoing petroleum production activities being conducted by the Hathaway Company were identified within 14 feet of southern property line. As a result, the locations of the proposed southern limits of the southern excavations were shifted to the north approximately 10 feet.

In a letter dated June 3, 1998, Alton Geoscience made notification of initiation of remedial activities to the LARWQCB. The letter confirmed a June 2, 1998 telephone conversation between Mr. Michael Pitta of Alton Geoscience and Ms. Manjulika Chakrabarti of the LARWQCB.

3.2 Remedial Excavation

Excavation activities were initiated on June 8, 1998, and completed on June 22, 1998. The limits of the excavations were predetermined during site assessment activities as detailed in the RAP. Remedial excavations were performed in three separate locations (Excavations I, II, and III; Figure 3). Excavations I and II were located along the southeastern property boundary and Excavation III was located in the eastern, central portion of the property.

The RAP specified excavation of TRPH- and chlorinated solvent-affected soil to a minimum depth of 5 fbg. Vertical and lateral proposed excavation boundaries were extended, when feasible, based on field screening of soil samples. The following is a summary of the total depths of each excavation:

- Excavation I extended to a depth of approximately 11.5 fbg.
- Excavation II ranged from a total depth of approximately 6 to 15 fbg.
- Excavation III ranged from a total depth of approximately 6 to 14 fbg.

A total of approximately 2,600 tons of TRPH- and/or chlorinated solvent-affected soil were removed during these remedial activities.

3.3 Soil Sampling

Based on previous site assessment activities, soil within the area of Excavation I and the western portion of Excavation II were known to have detectable concentrations TRPH and chlorinated solvents. Soil in the eastern portion of Excavation II and Excavation III were impacted primarily with TRPH (crude oil). Refer to Figure 3 for a spatial summary of soil laboratory results obtained from site assessment activities performed in June and July 1997.

During remedial excavation activities, verification samples were collected from the sidewalls and base of the excavations to confirm the removal of near surface TRPH- and chlorinated solvent-affected soil. Soil samples were screened in the field with a state-certified mobile laboratory for chlorinated solvents by EPA Method 8010 and for TRPH by EPA Method 418.1. Verification soil samples from Excavations I and II, were transported to a state-certified laboratory capable of analyzing for halogenated volatile organic compounds (HVOCs) by EPA Method 8260. Refer to Table 1 for summary of results of laboratory analysis of soil samples and Appendix A for copies of the official laboratory reports and general field procedures.

3.4 Backfill and Compaction

Excavations I, II, and III were backfilled and compacted between June 18 and June 22, 1998, under the supervision of a registered engineer. Each excavation was backfilled with imported fill from the West Coast Sand and Gravel facilities in Irwindale and Riverside, California. Field density test results showed that the compaction of backfill met minimum 90 percent relative compaction. Refer to Appendix B for a copy the official report for excavation backfill.

3.5 Soil Disposal

Soil generated during remedial excavation activities was temporarily stockpiled onsite awaiting transport to an appropriate disposal facility. Between July 22 and 24, 1998, approximately 2,050 tons of TRPH- and chlorinated solvent-affected soil were transported offsite to the TPS Technologies thermal treatment facility in Adelanto, California, for disposal/recycling. Approximately 550 tons of TRPH-affected soil was transported to the Mobil refinery in Torrance, California, for disposal/recycling. Refer to Tables 2A, 2B, and 2C for a summary of results of laboratory analysis of stockpile samples and to Appendix C for copies of the official non-hazardous waste manifests.

4.0 FINDINGS

4.1 Excavation I

The maximum concentration of PCE detected at the lateral (north, east and west) and vertical limits of the excavation was 170 parts per billion ([ppb]; Sample EX1-10). No concentrations of TRPH or TCE were detected in any of the samples collected from Excavation I. Due to the presence of active utility lines, no samples were collected from the southern sidewall of the excavation (Figure 4). This excavation was completed as proposed and generated approximately 300 tons of soil.

4.2 Excavation II

The maximum concentrations of PCE and TCE were detected in Sample EX2-26 collected approximately 15 fbg (308,000 and 28,100 ppb, respectively). The maximum concentration of TRPH was detected in Sample EX2-11 collected approximately 15 fbg (25,000 parts per million [ppm]). The maximum concentrations of PCE and TCE detected in a sidewall sample representing the lateral limits of the excavation were detected in Sample EX2-26(A) at approximately 6 fbg (680 and 35 ppb, respectively). The maximum concentration of TRPH in a sidewall sample was detected in Sample EX2-25 at approximately 6.5 fbg (1,100 ppm). However, the maximum concentration of TRPH concentration in two samples collected within 10 feet to the east and west of EX2-25 at a similar depth was 20 ppm. Sample EX2-25 was the only sidewall sample with detectable TRPH concentrations greater than 100 ppm (Figure 5). No soil samples were collected from the southern sidewall due to the presence of active subsurface utility lines.

Excavation II was extended to the north approximately 15 feet beyond the proposed excavation boundary in the vicinity of Soil Boring GP-35 (Figure 5). Additional excavation was required to remove accessible, near-surface impacted soil identified through field screening with a mobile laboratory. The proposed and additional excavation generated approximately 975 tons of soil.

4.3 Excavation III

The maximum concentration of TRPH in an excavation sidewall was detected in Sample EX3-29, approximately 6 fbg (3,600 ppm). The maximum concentration of TRPH from the base of the excavation was detected in EX3-34, approximately 14 fbg (4,400 ppm). With the exception of the southern portion of the excavation, concentrations of TRPH greater than 85 ppm were not detected in sidewall samples (Figure 6). The southern boundary of the excavation was extended approximately 7 feet to the south to remove additional accessible

TRPH-affected soil. The lateral boundary of Excavation III was not extended further to the south due to the uncovering of a 3-inch diameter steel conduit of unknown origin approximately 3 fbg, running east to west. The proposed and additional excavation generated approximately 1,350 tons of soil.

4.4 Discussion of Remedial Progress from Excavation Activities

Accessible concentrations of TRPH greater than 1,000 ppm were removed from all portions of Excavations I, II and III, with the exception of a limited area along the southern sidewall of Excavation III (EX3-29). Concentrations of TRPH in excess of 1,000 ppm, detected along the southern sidewall of Excavation III, are within 6 feet of Boring GP-36 with a TRPH concentration of 19 ppm detected approximately 5 fbg. Additionally, soil sample results from Borings GP-42 and HS-2 indicate that the lateral extent of TRPH concentrations greater than 1,000 ppm is limited in the vicinity of the southern extent of Excavation III. Refer to Figures 7 and 8 for TRPH isoconcentration maps generated from data collected in June and July 1997 with overlays of remedial excavation boundaries.

The maximum concentrations of PCE and TCE detected during excavation activities were in sample EX2-26 collected from Excavation II, approximately 15 fbg. The maximum concentration of PCE detected in five additional samples from Excavation II collected at depths ranging from 11.5 to 15 fbg was 290 ppb, indicating the lateral distribution of elevated concentrations of chlorinated solvents is limited at these depths. The maximum concentration of PCE detected in sidewall samples collected up to 6.5 fbg was 680 ppb, indicating that the concentrations observed in EX2-26 are not characteristic of the near-surface (<10 fbg) soil condition. Additionally, during site assessment activities in June and July 1997, analysis of soil samples from borings GP-35 and HS-2, each located laterally less than 16 feet from sample EX2-26, showed the maximum concentration of PCE in samples at 15 fbg and lower to be no greater than 990 ppb. Refer to Appendix D for a summary of analytical data collected during the June and July 1997 site assessment activities.

Concentrations of PCE and TCE detected in EX2-26 were greater than from any of the 22 Geoprobe-type borings or 9 hollow stem auger borings completed in the same general vicinity during site assessment activities in 1997. Based on laboratory results of soil samples collected during remedial activity and previous site assessment activities, it appears that the PCE and TCE concentrations as detected in EX2-26 are not laterally or vertically continuous nor representative of residual bulk soil solvent concentrations present in the vicinity of their collection.

5.0 CONCLUSIONS AND REQUEST FOR SOIL CLOSURE

Remedial activity resulted in a reduction of accessible, near-surface TRPH- and chlorinated solvent-affected soil. Proposed excavation limits were extended vertically and laterally based on field observations. In cases where the lateral extension of excavation boundaries was not feasible due to spatial constraints or other limiting factors (e.g. subsurface lines), historic data from soil boring activities provided lateral and vertical delineation in those directions and justification to suspend further excavation.

The removal of approximately 2,600 tons of TRPH- and chlorinated solvent-affected soil reduced potential exposure pathways likely to be encountered during and after site development activity. Additionally, fate and transport modeling presented in the Alton Geoscience Site Assessment Report/Remedial Action Plan previously demonstrated that residual chlorinated solvent and crude oil concentrations presented an insignificant threat to groundwater. Remedial activity reduced the volume of potential leachable chlorinated solvent- and crude oil-affected soil, further reducing the threat to near surface groundwater. Additionally, anticipated site development activities are not expected to contribute to TRPH and/or chlorinated solvent concentrations in soil.

Monitoring and sampling of the three onsite groundwater wells will be performed semi-annually. Additionally, Mobil will continue to be a participating member of the North Central Basin Regional Groundwater Group, under the direction of Mr. Keith Elliot of the LARWQCB, and assist in efforts to further characterize regional chlorinated solvent impact on near-surface groundwater in the Santa Fe Springs vicinity.

In combination with the qualitative risk assessment presented in the RAP, remedial activity has been successful in removing residual near-surface crude oil and chlorinated solvent concentrations and eliminating potential exposure pathways associated with current and anticipated future site use. Alton Geoscience respectfully submits this site for soil closure.

6.0 REFERENCES

Alton Geoscience, 1997, Site Assessment Report/Remedial Action Plan, October 10.

Levine-Fricke, 1991a, Draft Subsurface Soil Investigation, December 6.

Levine-Fricke, 1991b, Draft Remedial Action Plan, December 18.

McLaren Hart, 1994b, Limited Subsurface Investigation of Tetrachloroethylene (PCE) Impacted Soil, November 15.

The excavation activities summarized in this report have been conducted in accordance with current practice and the standard of care exercised by geologists and engineers performing similar tasks in this area. No warranty, expressed or implied, is made regarding the conclusions and recommendations presented in this report. The conclusions and recommendations are based solely upon an analysis of the observed conditions. If actual conditions differ from those described in this report, our office should be notified.

Table 1

RESULTS OF LABORATORY ANALYSIS OF SOIL SAMPLES

June 9 through June 22, 1998

Mobil Jalk Fee Properties

Boring Number	Sample Date	Depth (fbg)	TRPH (ppm)	sec-Butyl benzene (ppb)	tert-Butyl benzene (ppb)	Iso propyl benzene (ppb)	p-Iso propyl toluene (ppb)	Naphthalene (ppb)	n-Propyl benzene (ppb)	1,2,4-Trimethyl benzene (ppb)	1,3,5-Trimethyl benzene (ppb)	o-Xylenes (ppb)	m,p-Xylenes (ppb)	cis-1,2-Dichloroethene (ppb)	trans-1,2-Dichloroethene (ppb)	Toluene (ppb)	Ethyl benzene (ppb)	Benzene (ppb)	Methylene Chloride (ppb)	Vinyl Chloride (ppb)	PCE (ppb)	TCE (ppb)
EX1-1	6/9/98	5.5	ND	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	ND	ND	200	ND
EX1-2	6/9/98	5.5	ND	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	ND	ND	130	ND
EX1-3	6/9/98	5.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
EX1-4	6/9/98	6.5	ND	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	ND	ND	100	ND
EX1-5	6/10/98	5.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
EX1-6	6/10/98	5.5	ND	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	ND	ND	240	ND
EX1-7	6/10/98	11.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
EX1-8	6/10/98	11.5	ND	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	ND	ND	150	ND
EX1-9	6/10/98	11.5	ND	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	ND	ND	54	ND
EX1-10	6/10/98	11.5	ND	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	ND	ND	170	ND
EX1-11	6/11/98	6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
EX2-1	6/9/98	5.5	73	ND	ND	ND	ND	ND	ND	ND	ND	ND	10	ND	ND	8	ND	ND	ND	ND	15	ND
EX2-2	6/9/98	5.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
EX2-3	6/9/98	5.5	ND	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	ND	ND	300	ND
EX2-4	6/9/98	7.0	120	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	ND	ND	ND	5.2
EX2-5	6/9/98	5.5	730	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	ND	ND	ND	ND
EX2-6	6/9/98	9.5	ND	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	ND	ND	ND	ND
EX2-7	6/9/98	6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
EX2-8	6/9/98	6.0	ND	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	ND	ND	ND	ND
EX2-9	6/9/98	6.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
EX2-10	6/9/98	15.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7	ND	ND	ND	ND	ND	ND	ND	ND	ND
→ EX2-11	6/9/98	15.0	25000	8	ND	10	24	ND	ND	ND	ND	16	20	ND	12	13	13	23	ND	ND	ND	ND
EX2-12	6/10/98	15.0	ND	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	ND	ND	ND	ND
EX2-13	6/10/98	12.5	ND	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	ND	ND	ND	ND
EX2-14	6/10/98	7.0	ND	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	ND	ND	170	ND

Table I

RESULTS OF LABORATORY ANALYSIS OF SOIL SAMPLES

June 9 through June 22, 1998

Mobil Jalk Fee Properties

Baring Number	Sample Date	Depth (fbg)	TRPH (ppm)	sec-Butyl benzene (ppb)	tert-Butyl benzene (ppb)	Iso propyl benzene (ppb)	p-Iso propyl toluene (ppb)	Naphthalene (ppb)	n-Propyl benzene (ppb)	1,2,4-Trimethyl benzene (ppb)	1,3,5-Trimethyl benzene (ppb)	o-Xylenes (ppb)	m,p-Xylenes (ppb)	cis-1,2-Dichloroethene (ppb)	trans-1,2-Dichloroethene (ppb)	Taluene (ppb)	Ethyl benzene (ppb)	Benzene (ppb)	Methylene Chloride (ppb)	Vinyl Chloride (ppb)	PCE (ppb)	TCE (ppb)
EX2-15	6/10/98	5.5	ND	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	ND	ND	430	17
EX2-16	6/10/98	5.5	ND	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	ND	ND	270	20
EX2-17	6/10/98	5.5	ND	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	ND	ND	350	23
EX2-18	6/10/98	11.5	ND	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	ND	ND	290	6.6
EX2-19	6/11/98	11.0	3600	--	--	--	--	--	--	--	--	--	--	--	59	--	--	--	ND	7.8	33000	10000
EX2-20	6/11/98	6.0	5900	--	--	--	--	--	--	--	--	--	--	--	26	--	--	--	ND	ND	300	270
EX2-21	6/11/98	6.0	ND	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	ND	ND	100	18
EX2-22	6/11/98	11.0	ND	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	ND	ND	44	11
EX2-23	6/11/98	6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
EX2-23	6/11/98	6.5	20	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	ND	ND	6.2	10
EX2-24	6/11/98	6.5	ND	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	ND	ND	9.6	ND
EX2-25	6/11/98	6.5	1100	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	ND	ND	140	28
EX2-26	6/11/98	6.0	21	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	ND	ND	680	35
EX2-26	6/22/98	15.0	--	2300	ND	1100	ND	ND	1600	200	ND	ND	500	14700	ND	ND	ND	300	ND	ND	308000	28100
EX3-1	6/9/98	5.5	ND	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	ND	ND	ND	ND
EX3-2	6/9/98	6.0	ND	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	ND	ND	ND	ND
EX3-3	6/9/98	5.5	280	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	ND	ND	ND	ND
EX3-4	6/9/98	5.5	ND	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	ND	ND	ND	ND
EX3-5	6/9/98	6.0	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EX3-6	6/9/98	6.0	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EX3-7	6/9/98	6.0	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EX3-8	6/9/98	6.5	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EX3-9	6/9/98	6.5	85	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EX3-10	6/9/98	6.5	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EX3-11	6/9/98	7.0	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 1

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June 9 through June 22, 1998

Mobil Jalk Fee Properties

Boring Number	Sample Date	Depth (fbg)	TRPH (ppm)	sec-Butyl benzene (ppb)	tert-Butyl benzene (ppb)	Iso propyl benzene (ppb)	p-Iso propyl toluene (ppb)	Naphthalene (ppb)	n-Propyl benzene (ppb)	1,2,4-Trimethyl benzene (ppb)	1,3,5-Trimethyl benzene (ppb)	o-Xylenes (ppb)	m,p-Xylenes (ppb)	cis-1,2-Dichloroethene (ppb)	trans-1,2-Dichloroethene (ppb)	Toluene (ppb)	Ethyl benzene (ppb)	Benzene (ppb)	Methylene Chloride (ppb)	Vinyl Chloride (ppb)	PCE (ppb)	TCE (ppb)
EX3-12	6/9/98	7.5	130	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EX3-13	6/9/98	7.0	8000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EX3-14	6/10/98	10.0	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EX3-15	6/10/98	10.0	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EX3-16	6/10/98	10.0	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EX3-17	6/10/98	10.0	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EX3-18	6/10/98	10.0	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EX3-19	6/10/98	11.0	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EX3-20	6/10/98	12.0	200	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EX3-21	6/10/98	12.0	16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EX3-22	6/10/98	7.0	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EX3-23	6/10/98	7.0	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EX3-24	6/10/98	6.5	5600	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EX3-25	6/10/98	11.5	21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EX3-26	6/10/98	11.5	650	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EX3-27	6/10/98	12.5	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EX3-28	6/10/98	6.5	950	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EX3-29	6/11/98	6.0	3600	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EX3-30	6/11/98	6.0	2200	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EX3-31	6/11/98	6.0	2300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EX3-32	6/11/98	10.0	2400	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EX3-33	6/11/98	7.0	190	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EX3-34	6/11/98	14.0	4400	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EX3-35	6/11/98	14.0	19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 1

RESULTS OF LABORATORY ANALYSIS OF SOIL SAMPLES

June 9 through June 22, 1998

Mobil Jalk Fee Properties

Boring Number	Sample Date	Depth (fbg)	TRPH (ppm)	sec-Butyl benzene (ppb)	tert-Butyl benzene (ppb)	Iso propyl benzene (ppb)	p-Iso propyl toluene (ppb)	Naphthalene (ppb)	n-Propyl benzene (ppb)	1,2,4-Trimethyl benzene (ppb)	1,3,5-Trimethyl benzene (ppb)	o-Xylenes (ppb)	m,p-Xylenes (ppb)	cis-1,2-Dichloroethene (ppb)	trans-1,2-Dichloroethene (ppb)	Toluene (ppb)	Ethyl benzene (ppb)	Benzene (ppb)	Methylene Chloride (ppb)	Vinyl Chloride (ppb)	PCE (ppb)	TCE (ppb)

Notes:

TRPH	=	total petroleum hydrocarbons with gasoline distinction
PCE	=	tetrachloroethene
TCE	=	trichloroethene
fbg	=	feet below grade
ppm	=	parts per million
ppb	=	parts per billion
ND	=	not detected; see official laboratory reports for detection limits
--	=	not analyzed, measured, or collected

Table 2A

RESULTS OF LABORATORY ANALYSIS OF STOCKPILE SAMPLES
June 11 and 17, 1998
Mobil Jalk Fee Properties

Composite Sample Number	Sample Date	TRPH (ppm)	cis-1,2-Dichloro ethene (ppb)	trans-1,2-Dichloro ethene (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl benzene (ppb)	Total Xylenes (ppb)	MTBE (ppb)	Methylene Chloride (ppb)	Vinyl Chloride (ppb)	PCE (ppb)	TCE (ppb)
CSP3-1	6/17/98	2800	ND	ND	ND	5.9	54	145	ND	13.2	ND	ND	ND
CSP3-2	6/17/98	387	ND	ND	ND	ND	ND	ND	ND	11.1	ND	ND	ND
CSP3-3	6/17/98	2270	ND	ND	ND	ND	ND	ND	ND	10.8	ND	ND	ND
CSP3-4	6/17/98	288	ND	ND	ND	ND	ND	ND	ND	13	ND	ND	ND
CSP3-5	6/17/98	925	ND	ND	ND	ND	ND	ND	ND	11.8	ND	ND	ND
CSP1-6	6/17/98	31	ND	ND	ND	5.3	ND	ND	ND	12	ND	7.5	ND
CSP1-7	6/17/98	53	ND	ND	ND	5.9	ND	ND	ND	11.6	ND	40.4	ND
CSP2-8	6/17/98	242	ND	ND	ND	ND	ND	32.4	ND	12.3	ND	368	ND
CSP2-9	6/17/98	3410	ND	ND	ND	ND	ND	ND	ND	12.3	ND	129	ND
CSP2-10	6/17/98	902	ND	ND	ND	ND	ND	ND	ND	12.4	ND	65.4	ND
SP3-A	6/11/98	--	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND
SP3-B	6/11/98	--	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND
SP3-C	6/11/98	--	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND
SP3-1	6/11/98	298	--	--	--	--	--	--	--	--	--	--	--
SP3-2	6/11/98	372	--	--	--	--	--	--	--	--	--	--	--
SP3-3	6/11/98	140	--	--	--	--	--	--	--	--	--	--	--
SP3-4	6/11/98	352	--	--	--	--	--	--	--	--	--	--	--
SP3-5	6/11/98	333	--	--	--	--	--	--	--	--	--	--	--
SP3-6	6/11/98	343	--	--	--	--	--	--	--	--	--	--	--
SP3-7	6/11/98	382	--	--	--	--	--	--	--	--	--	--	--
SP3-8	6/11/98	515	--	--	--	--	--	--	--	--	--	--	--
SP3-9	6/11/98	280	--	--	--	--	--	--	--	--	--	--	--
SP3-10	6/11/98	242	--	--	--	--	--	--	--	--	--	--	--
SP3-11	6/11/98	242	--	--	--	--	--	--	--	--	--	--	--
SP3-12	6/11/98	315	--	--	--	--	--	--	--	--	--	--	--

Notes:

TRPH	=	total petroleum hydrocarbons with gasoline distinction
PCE	=	tetrachloroethene
TCE	=	trichloroethene
fbg	=	feet below grade
ppm	=	parts per million
ppb	=	parts per billion
ND	=	not detected; see official laboratory reports for detection limits
--	=	not analyzed, measured, or collected

Table 2B

RESULTS OF LABORATORY ANALYSIS OF SOIL STOCKPILE SAMPLES

June 17, 1998

Mobil Jalk Fee Properties

Sample Number	Sample Date	Acena phthene (ppb)	Benzo (a) anthracene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluoranthene (ppb)	Benzo (g,h,i,) perylene (ppb)	Benzo (k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthracene (ppb)	Fluor anthene (ppb)	Ideno (1,2,3-cd) pyrene (ppb)	Naph thalene (ppb)	Phen anthrene (ppb)	Pyrene (ppb)
CSP3-1	6/17/98	ND	88	ND	ND	297	ND	ND	69	150	139	ND	80	ND
CSP3-2	6/17/98	ND	ND	ND	ND	197	ND	ND	112	88	59	ND	ND	ND
CSP3-3	6/17/98	ND	63	ND	ND	341	ND	71	151	371	126	ND	183	ND
CSP3-4	6/17/98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CSP3-5	6/17/98	ND	65	ND	ND	370	ND	65	138	367	157	ND	144	ND
CSP1-6	6/17/98	ND	ND	ND	ND	167	ND	ND	66	ND	57	ND	ND	ND
CSP1-7	6/17/98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CSP2-8	6/17/98	ND	85	ND	ND	368	ND	140	114	114	129	ND	ND	ND
CSP2-9	6/17/98	ND	ND	ND	ND	219	ND	ND	58	77	72	ND	ND	ND
CSP2-10	6/17/98	ND	ND	ND	ND	163	ND	ND	54	ND	ND	ND	ND	ND

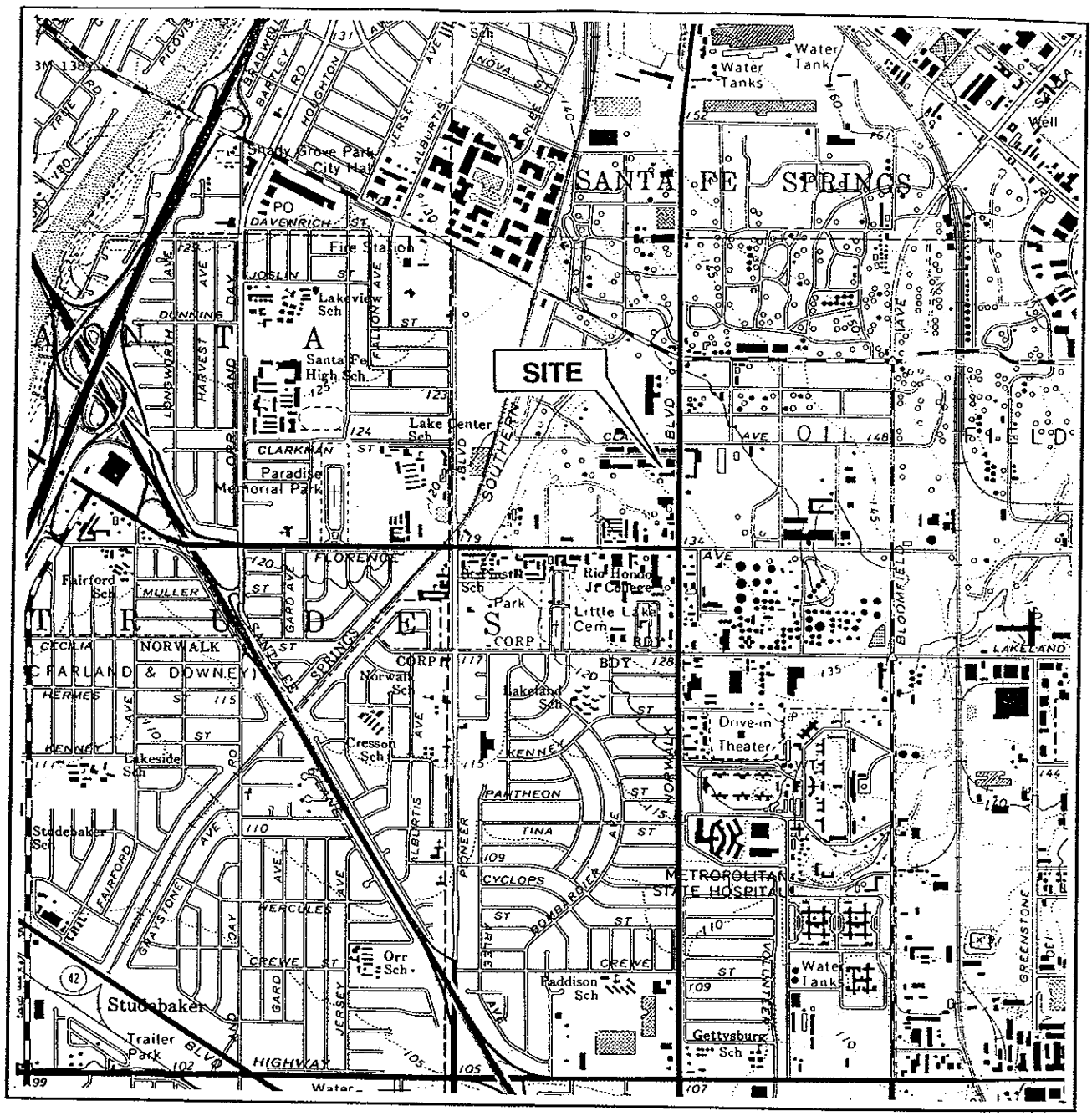
Notes:
TRPH = total petroleum hydrocarbons with gasoline distinction
fbg = feet below grade
ppb = parts per billion
ND = not detected; see official laboratory report for detection limits

Table 2C

RESULTS OF LABORATORY ANALYSIS OF SOIL SAMPLES
CAM Metals
June 11 and 17, 1998
Mobil Jalk Fee Properties

ANALYTE	Sample Number													TTLC	STLC	
	CSP3-1 (ppm)	CSP3-2 (ppm)	CSP3-3 (ppm)	CSP3-4 (ppm)	CSP3-5 (ppm)	CSP1-6 (ppm)	CSP1-7 (ppm)	CSP2-8 (ppm)	CSP2-9 (ppm)	CSP2-10 (ppm)	SP3-A (ppm)	SP3-B (ppm)	SP3-C (ppm)	Max. Limit (ppm)	Max. Limit (ppm)	
Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.49	1.32	1.33	500	15	150
Arsenic	0.82	1.66	0.77	ND	ND	2.35	ND	3.12	ND	5.25	ND	ND	ND	500	5	50
Barium	117	103	120	106	113	130	112	103	92.9	304	83.2	82	79.4	10000	100	1000
Beryllium	0.44	0.46	0.44	0.4	0.43	0.48	0.4	0.46	0.37	0.36	0.35	0.34	0.33	75	1	10
Cadmium	2.12	2.17	2.17	1.99	2.15	2.35	1.94	2.23	1.84	2.19	1.54	1.62	1.6	100	1	10
Chromium, total	21.4	21.3	22.7	19.2	21.2	24.7	19.9	20.8	17.7	25.8	14.9	15.3	14.8	2500	5	50
Cobalt	9.56	9.58	10.1	9.13	10.3	10.5	8.86	9.53	7.92	7.88	6.78	7.26	6.88	8000	80	800
Copper	23.5	22.2	29.1	24	19	25.9	19.7	24	18.1	32.9	16.7	17.8	16.2	2500	25	250
Lead	7.35	5.36	9.5	10.8	6.03	6.07	9.11	9.52	7.71	41.3	11	16.2	12.4	1000	5	50
Mercury	ND	ND	ND	ND	ND	ND	ND	0.55	ND	ND	ND	ND	ND	20	0	10
Molybdenum	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.4	ND	ND	ND	3500	350	3500
Nickel	16.3	16.1	16.6	14.3	15.7	17.6	14.2	15.3	13.1	17.6	11	11.3	10.9	2000	20	200
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	100	1	10
Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	500	5	50
Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	700	7	70
Vanadium	36.9	38.4	38.4	35.4	38.7	40.7	34	35.9	31.4	32.2	26.8	27.3	26.6	2400	24	240
Zinc	49	46	52.8	55.8	50.3	50	53.9	64.7	46.4	104	45.6	52.9	54	5000	250	2500

Notes:
STLC = Soluble Threshold Limit Concentration
TTLC = Total Threshold Limit Concentration
ppm = parts per million
ND = not detected above laboratory detection limits, refer to official laboratory reports



1 MILE 3/4 1/2 1/4 0 1 MILE

SCALE 1: 24,000

N

SOURCE:
United States Geological Survey
7.5 Minute Topographic Map:
Whittier Quadrangle

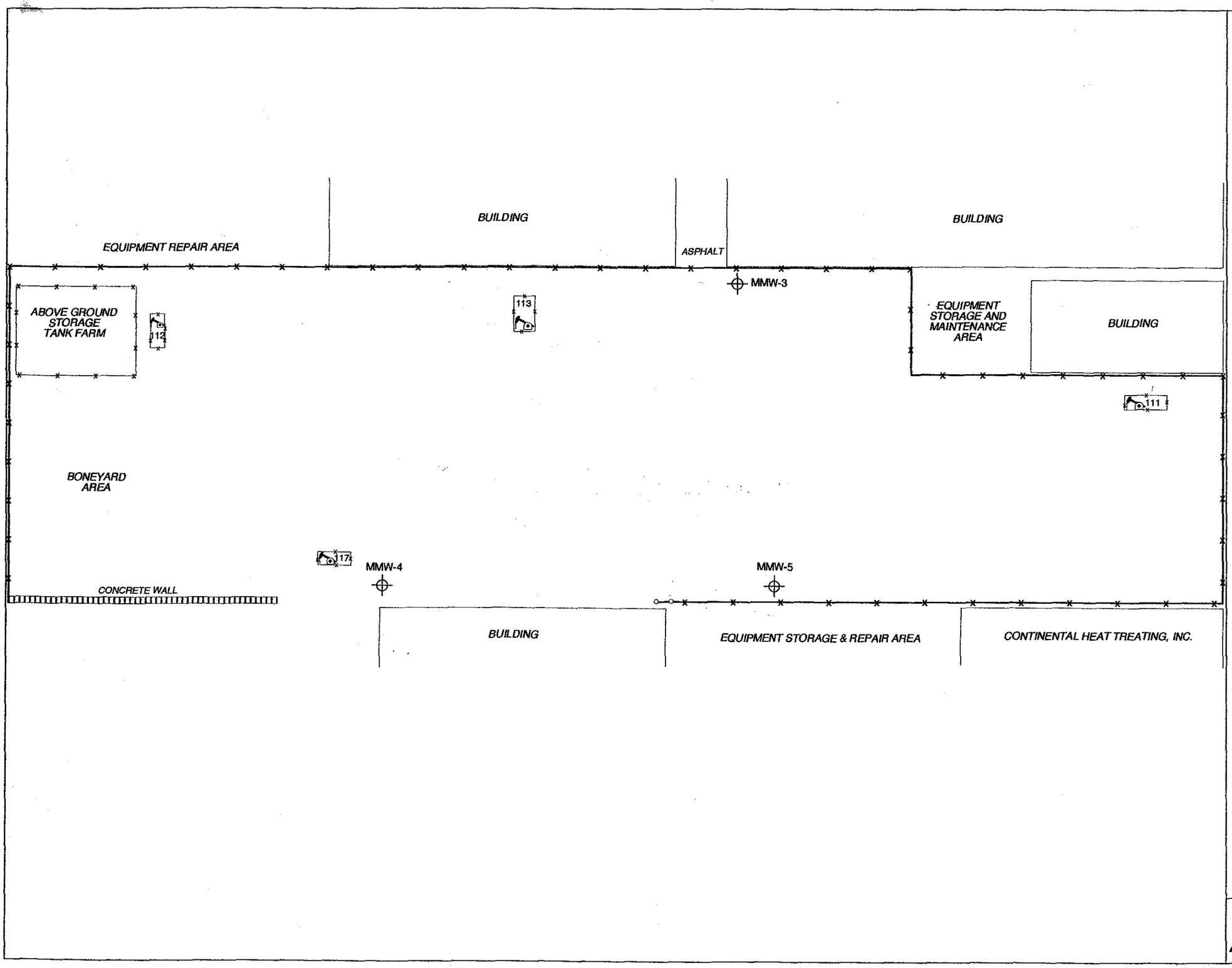
VICINITY MAP

Mobil Jalk Fee Property
10607 Norwalk Boulevard
Santa Fe Springs, California

ALTON GEOSCIENCE
Irvine, California

FIGURE 1

23-134 8/26/97



N

LEGEND

MMW-5	Monitoring Well
117	Operational Oil Well
	Chainlink Fence
	Gate

SCALE (FEET)

0 100 200

Source:
Modified from a map created by McLaren-Hart

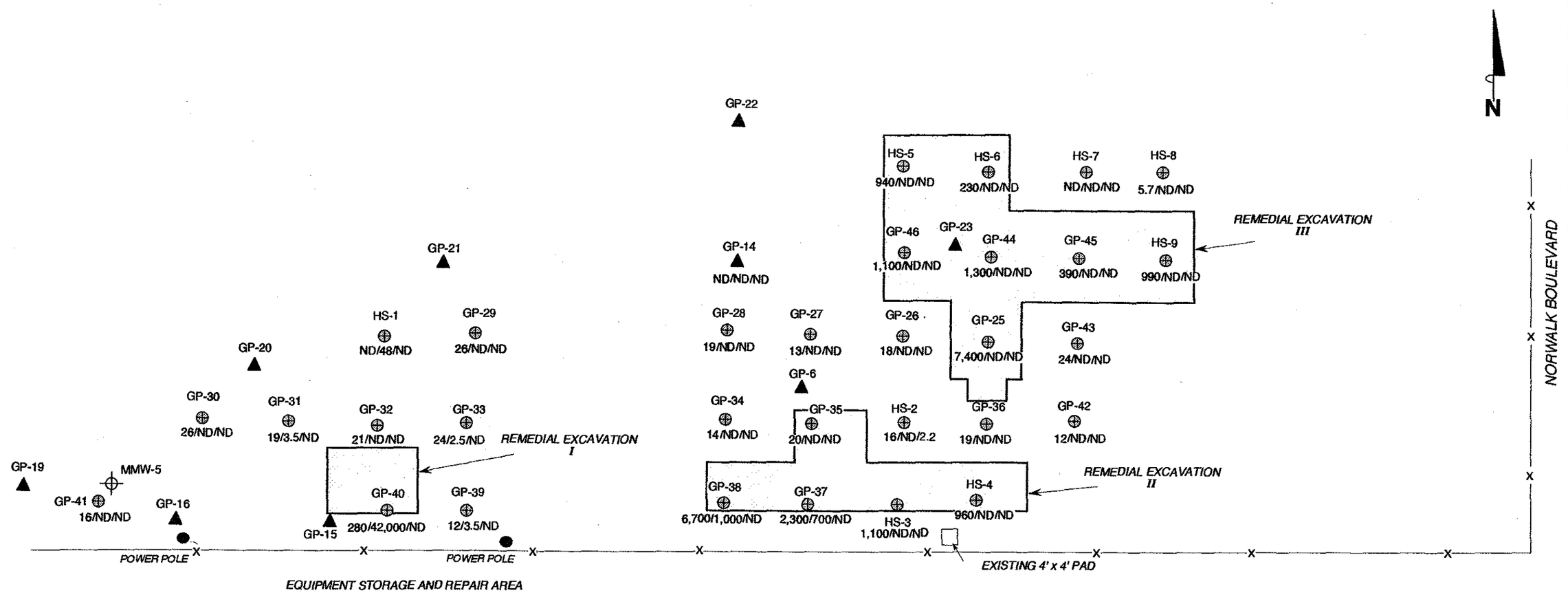
SITE PLAN

Mobil Jalk Fee Property
10607 Norwalk Boulevard
Santa Fe Springs, California

ALTON GEOSCIENCE
Irvine, California

FIGURE 2

23-0134 SITE 8/19/98 jrw



NOTES:

TRPH = total recoverable petroleum hydrocarbons. PCE = tetrachloroethene. TCE = trichloroethene. ppm = parts per million. ppb = parts per billion. ND = not detected at limit indicated on official laboratory report. Excavation boundaries are approximate.

LEGEND

MMW-5 ⊕	Monitoring Well
GP-41 ⊕	Alton 1997 Geoprobe Boring with TRPH/PCE/TCE Concentrations (ppm/ppb/ppb)
GP-23 ▲	McLaren Hart 1994,1996 Geoprobe Boring
x —— x	Chainlink Fence

Source:

Modified from a map created by William A. Teipe and Associates, Inc.

REMEDIAL EXCAVATIONS

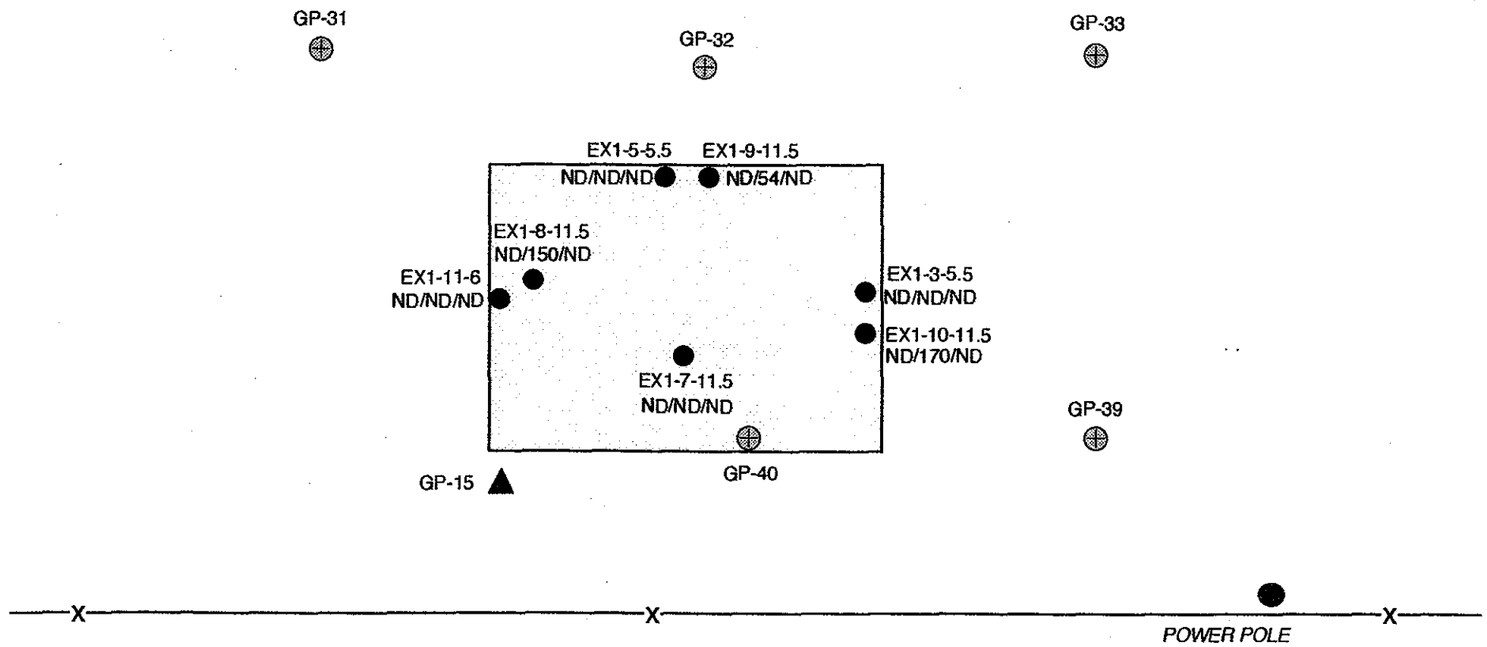
Jalk Fee Properties
10607 Norwalk Boulevard
Santa Fe Springs, California

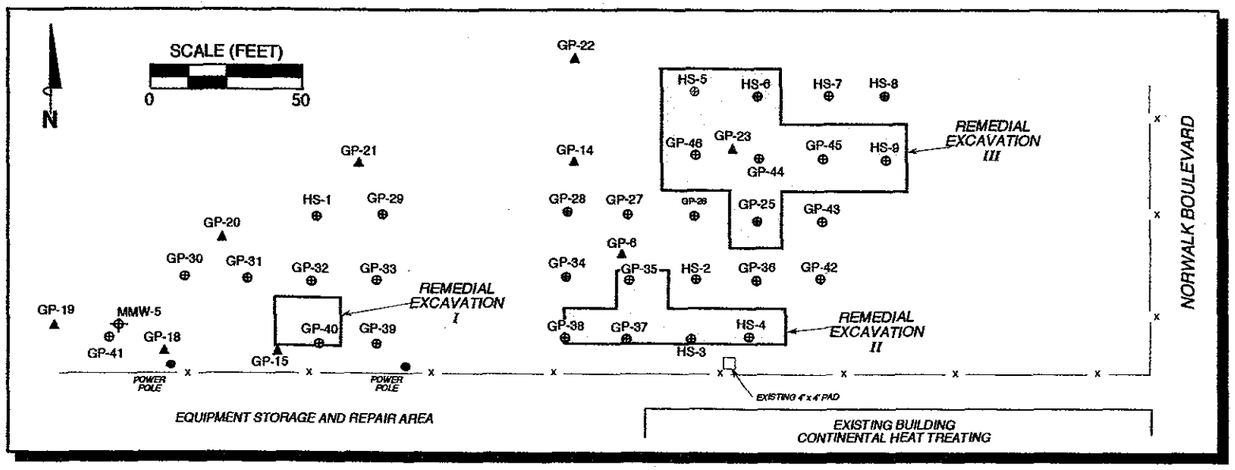
ALTON GEOSCIENCE
Irvine, California

SCALE (FEET)
0 30 60

FIGURE 3

23-0134 Excavations 8/19/98 jrw





N

LEGEND

EX1-1-5.5 ND/200/ND ●	Soil Sample with TRPH/PCE/TCE Concentrations (ppm/ppb/ppb)
GP-40 ⊕	Alton 1997 Geoprobe Boring
GP-15 ▲	McLaren Hart 1994,1996 Geoprobe Boring
x —— x	Chainlink Fence

SCALE (FEET)

0 10 20

NOTES:

TRPH = total recoverable petroleum hydrocarbons. PCE = tetrachloroethene. TCE = trichloroethene. ppm = parts per million. ppb = parts per billion. ND = not detected at limit indicated on official laboratory report. Soil Sample designations consist of the following information:
Excavation number-Number of sample collected-Sample collection depth. Sample locations are approximate.

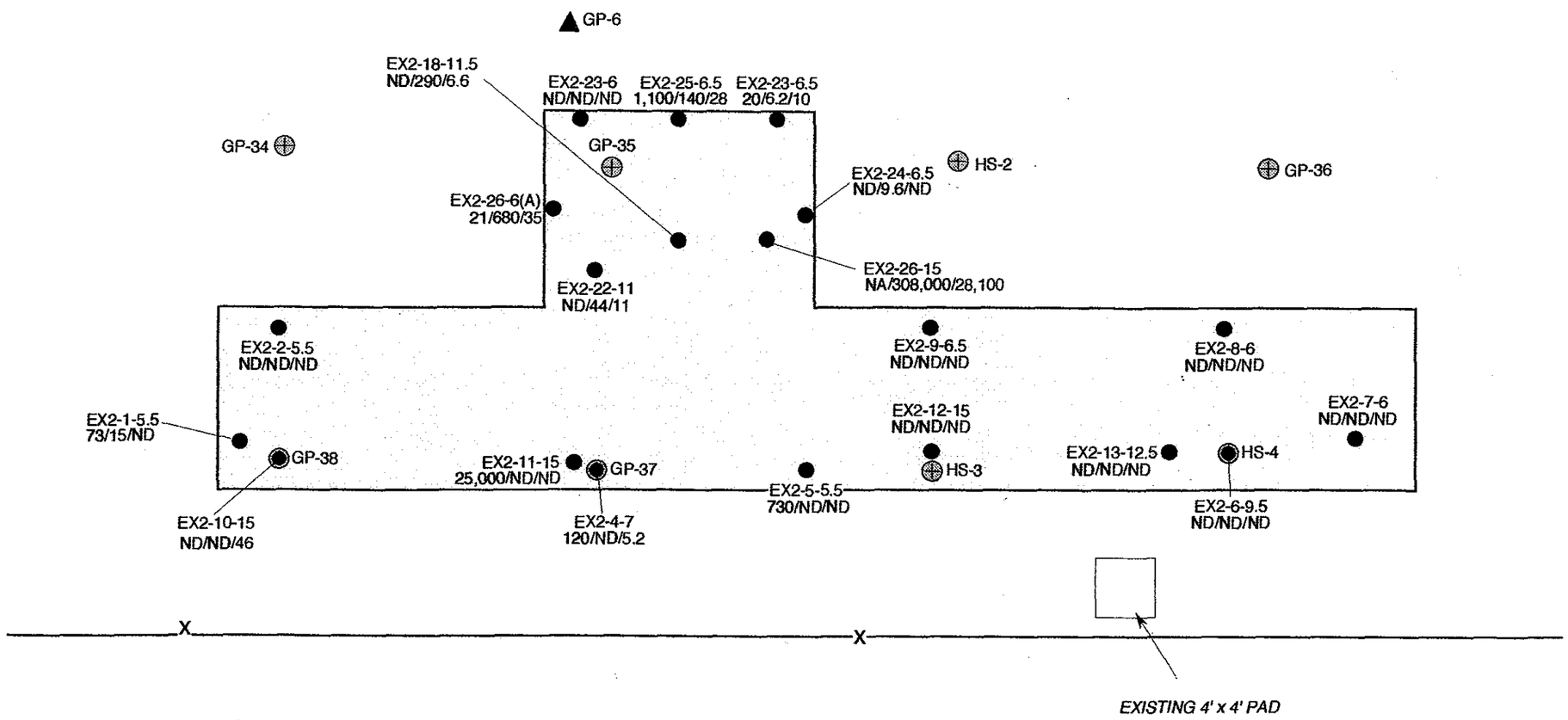
SOIL SAMPLING in EXCAVATION I

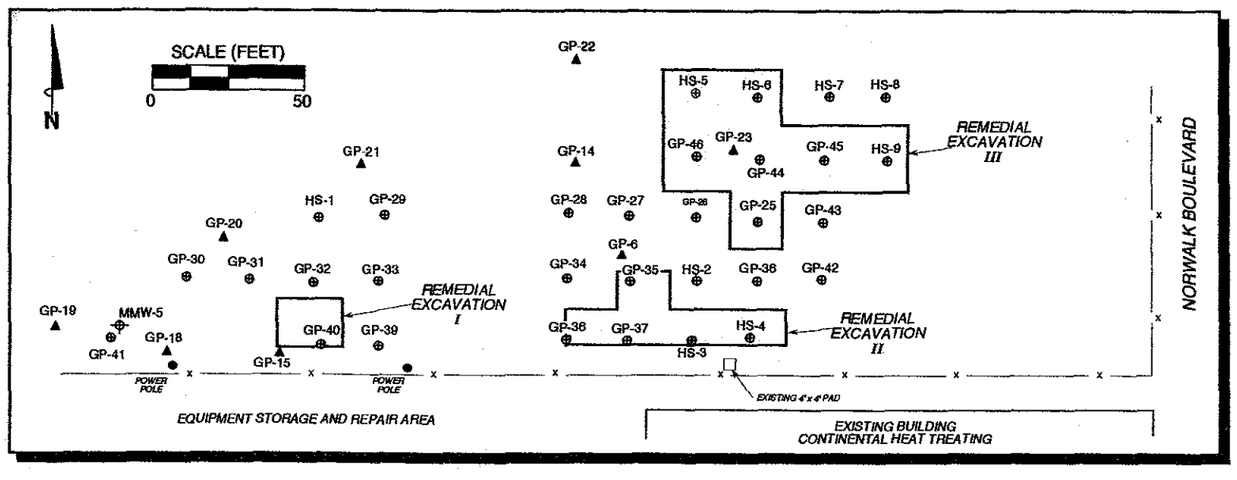
Jalk Fee Properties
10607 Norwalk Boulevard
Santa Fe Springs, California

ALTON GEOSCIENCE
Irvine, California

FIGURE 4

23-0134 Excavations 8/19/98 jrw





N

LEGEND

EX2-1-5.5 73/16/ND	●	Soil Sample with TRPH/PCE/TCE Concentrations (ppm/ppb/ppb)
GP-38	⊕	Alton 1997 Geoprobe Boring
GP-6	▲	McLaren Hart 1994,1996 Geoprobe Boring
x —— x		Chainlink Fence

SCALE (FEET)

0 10 20

NOTES:

TRPH = total recoverable petroleum hydrocarbons. PCE = tetrachloroethene. TCE = trichloroethene. ppm = parts per million. ppb = parts per billion. ND = not detected at limit indicated on official laboratory report. Soil Sample designations consist of the following information:
Excavation number-Number of sample collected-Sample collection depth. Sample locations are approximate.

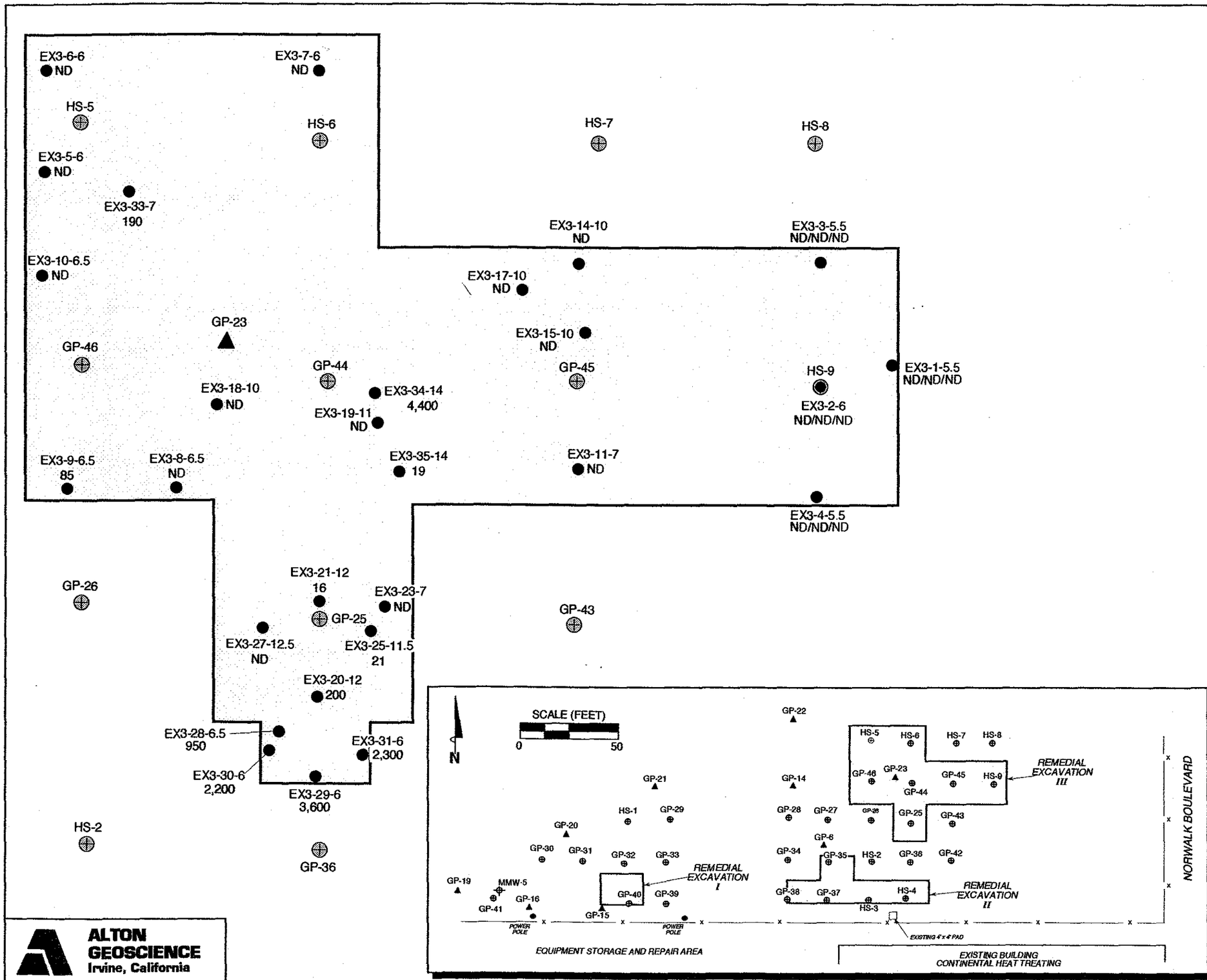
SOIL SAMPLING in EXCAVATION II

Jalk Fee Properties
10607 Norwalk Boulevard
Santa Fe Springs, California

FIGURE 5

ALTON GEOSCIENCE
Irvine, California

23-0134 Excavations 8/19/98 jrw



N

LEGEND

EX2-1-5.5 73/16/ND	●	Soil Sample with TRPH/PCE/TCE Concentrations (ppm/ppb/ppb)
GP-38	⊕	Alton 1997 Geoprobe Boring
GP-6	▲	McLaren Hart 1994,1996 Geoprobe Boring
x — x		Chainlink Fence

SCALE (FEET)

0 10 20

NOTES:

TRPH = total recoverable petroleum hydrocarbons. PCE = tetrachloroethene. TCE = trichloroethene. ppm = parts per million. ppb = parts per billion. ND = not detected at limit indicated on official laboratory report. Soil Sample designations consist of the following information:
Excavation number-Number of sample collected-Sample collection depth. Sample locations are approximate.

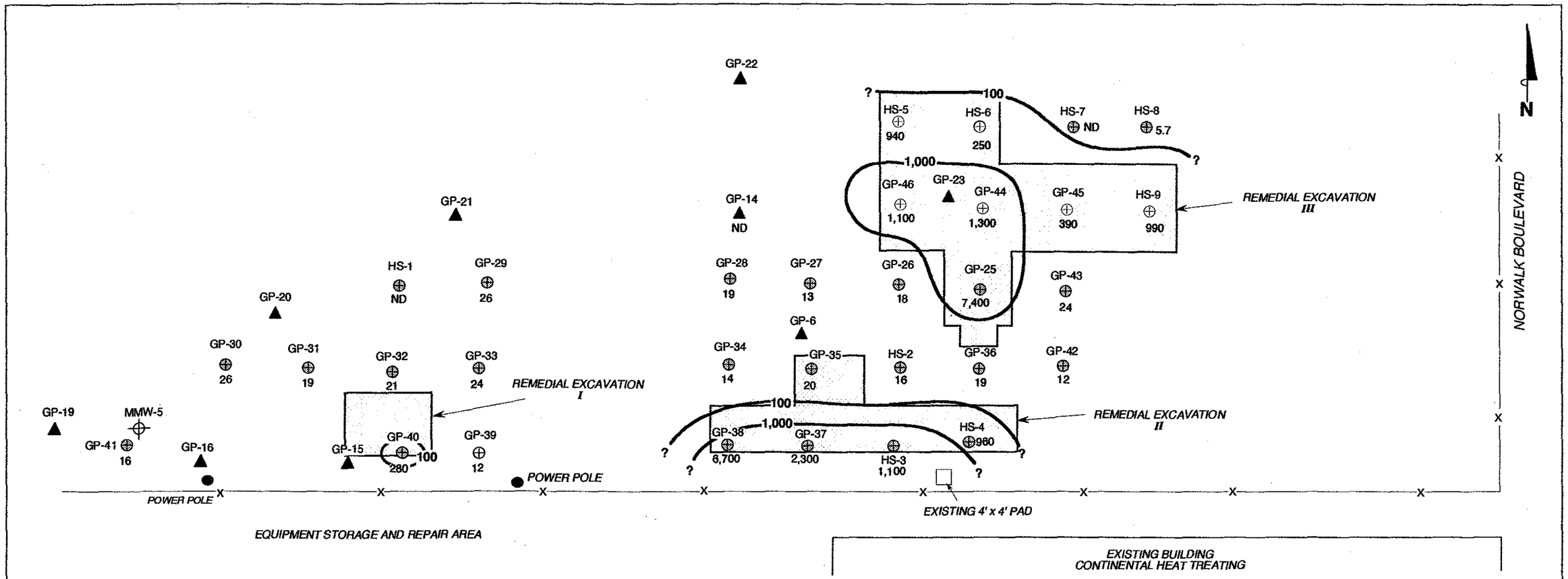
SOIL SAMPLING in EXCAVATION III

Jalk Fee Properties
10607 Norwalk Boulevard
Santa Fe Springs, California

FIGURE 6

ALTON GEOSCIENCE
Irvine, California

23-0134 Excavations 8/19/98 jrw



LEGEND

MMW-5	Monitoring Well
GP-41	Boring Location with TRPH Concentration (ppm)
GP-23	McLaren Hart 1994,1996 Geoprobe Boring
x —— x	Chainlink Fence
100	TRPH Iso-Concentration Contour (ppm)

NOTES:

Contour lines are interpretive based on results of soil samples collected June and July 1997. TRPH = total recoverable petroleum hydrocarbons. ppm = parts per million. ND = not detected at limit indicated on official laboratory report. FBG = feet below grade.

SCALE (FEET)

0 30 60

ISOCONCENTRATION MAP FOR TRPH in SOIL at 5 FBG with OVERLAY of REMEDIAL EXCAVATIONS

Jalk Fee Properties
10607 Norwalk Boulevard
Santa Fe Springs, California

ALTON GEOSCIENCE
Irvine, California

FIGURE 7

23-0134 Site (11x17) 10/12/98 jrw

APPENDIX A

OFFICIAL LABORATORY REPORTS AND GENERAL FIELD PROCEDURES

APPENDIX A

GENERAL FIELD PROCEDURES

A description of the general field procedures used during site investigation and monitoring activities is presented below. For an overview of protocol, refer to the appropriate section(s).

SOIL SAMPLE HANDLING

Soil sample handling follows the same basic protocol for both drilling and excavation activities. Upon retrieval, soil samples are immediately removed from the sampler, sealed with Teflon sheeting and polyurethane caps, and wrapped with tape. Each sample is labeled with the project number, boring/well number, sample depth, geologist's initials, and date of collection. After the samples have been labeled and documented in the chain of custody record, they are placed in a cooler with ice at approximately 4 degrees Celsius (°C) prior to and during transport to a state-certified laboratory for analysis. Samples not selected for immediate analysis may be transported in a cooler with ice and archived in a frostless refrigerator at approximately 4°C for possible future testing.

CHAIN OF CUSTODY PROTOCOL

Chain of custody protocol is followed for all soil and ground water samples selected for laboratory analysis. The chain of custody form(s) accompanies the samples from the sampling locality to the laboratory, providing a continuous record of possession prior to analysis.

Calscience Environmental Laboratories, Inc.

June 24, 1998

Michael Pitta
Alton Geoscience
25-A Technology Drive, Suite 200
Irvine, CA 92718

Subject: **Calscience Work Order Number: 98-06-0540**
Client Reference: Mobil Jalk Fee

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 06/18/98 and analyzed in accordance with the attached chain-of-custody.

The results in this analytical report are limited to the samples tested, and any reproduction of this report must be made in its entirety.

If you have any questions regarding this report, require sampling supplies or field services, or information on our analytical services, please feel free to call me at (714) 895-5494.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Mike Crisostomo
Project Manager

William H. Christensen
Deliverables Manager

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260A Volatile Organics

Client Name:	Alton Geoscience		
Project ID:	Mobil Jalk Fee		
Work Order Number:	98-06-0540		
QC Batch ID:	980619AS	Date Collected:	06/11/98
Matrix:	Solid	Date Received:	06/18/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8260A	Date Analyzed:	06/19/98

Client Sample Number: **EX1-11-6**
Lab Sample Number: 98-06-0540-1

Parameter	Result	RL	Qualifiers	Units
Acetone	ND	50		ug/kg
Benzene	ND	5		ug/kg
Bromobenzene	ND	5		ug/kg
Bromochloromethane	ND	5		ug/kg
Bromodichloromethane	ND	5		ug/kg
Bromoform	ND	5		ug/kg
Bromomethane	ND	5		ug/kg
2-Butanone	ND	50		ug/kg
n-Butylbenzene	ND	5		ug/kg
sec-Butylbenzene	ND	5		ug/kg
tert-Butylbenzene	ND	5		ug/kg
Carbon Disulfide	ND	50		ug/kg
Carbon Tetrachloride	ND	5		ug/kg
Chlorobenzene	ND	5		ug/kg
Chloroethane	ND	5		ug/kg
Chloroform	ND	5		ug/kg
Chloromethane	ND	5		ug/kg
2-Chlorotoluene	ND	5		ug/kg
4-Chlorotoluene	ND	5		ug/kg
Dibromochloromethane	ND	5		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5		ug/kg
1,2-Dibromoethane	ND	5		ug/kg
Dibromomethane	ND	5		ug/kg
1,2-Dichlorobenzene	ND	5		ug/kg
1,3-Dichlorobenzene	ND	5		ug/kg
1,4-Dichlorobenzene	ND	5		ug/kg
Dichlorodifluoromethane	ND	5		ug/kg
1,1-Dichloroethane	ND	5		ug/kg
1,2-Dichloroethane	ND	5		ug/kg
1,1-Dichloroethene	ND	5		ug/kg
c-1,2-Dichloroethene	ND	5		ug/kg
t-1,2-Dichloroethene	ND	5		ug/kg
1,2-Dichloropropane	ND	5		ug/kg
1,3-Dichloropropane	ND	5		ug/kg

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260A Volatile Organics

Client Name:	Alton Geoscience		
Project ID:	Mobil Jalk Fee		
Work Order Number:	98-06-0540		
QC Batch ID:	980619AS	Date Collected:	06/11/98
Matrix:	Solid	Date Received:	06/18/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8260A	Date Analyzed:	06/19/98

Client Sample Number: **EX1-11-6**
Lab Sample Number: 98-06-0540-1

Parameter	Result	RL	Qualifiers	Units
2,2-Dichloropropane	ND	5		ug/kg
1,1-Dichloropropene	ND	5		ug/kg
c-1,3-Dichloropropene	ND	5		ug/kg
t-1,3-Dichloropropene	ND	5		ug/kg
Ethylbenzene	ND	5		ug/kg
2-Hexanone	ND	50		ug/kg
Isopropylbenzene	ND	5		ug/kg
p-Isopropyltoluene	ND	5		ug/kg
Methylene Chloride	ND	50		ug/kg
4-Methyl-2-Pentanone	ND	50		ug/kg
Naphthalene	ND	50		ug/kg
n-Propylbenzene	ND	5		ug/kg
Styrene	ND	5		ug/kg
1,1,1,2-Tetrachloroethane	ND	5		ug/kg
1,1,2,2-Tetrachloroethane	ND	5		ug/kg
Tetrachloroethene	ND	5		ug/kg
Toluene	ND	5		ug/kg
1,2,3-Trichlorobenzene	ND	10		ug/kg
1,2,4-Trichlorobenzene	ND	5		ug/kg
1,1,1-Trichloroethane	ND	5		ug/kg
1,1,2-Trichloroethane	ND	5		ug/kg
Trichloroethene	ND	5		ug/kg
Trichlorofluoromethane	ND	50		ug/kg
1,2,3-Trichloropropane	ND	5		ug/kg
1,2,4-Trimethylbenzene	ND	5		ug/kg
1,3,5-Trimethylbenzene	ND	5		ug/kg
Vinyl Acetate	ND	50		ug/kg
Vinyl Chloride	ND	5		ug/kg
p/m-Xylene	ND	5		ug/kg
o-Xylene	ND	5		ug/kg
Methyl-tert-Butyl Ether	ND	5		ug/kg

Surrogates:	REC (%)	Control Limits	Qualifiers
Dibromofluoromethane	100	80-120	

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260A Volatile Organics

Client Name:	Alton Geoscience		
Project ID:	Mobil Jalk Fee		
Work Order Number:	98-06-0540		
QC Batch ID:	980619AS	Date Collected:	06/11/98
Matrix:	Solid	Date Received:	06/18/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8260A	Date Analyzed:	06/19/98

Client Sample Number: **EX1-11-6**

Lab Sample Number: 98-06-0540-1

Surrogates:	REC (%)	Control Limits	Qualifiers
Toluene-d8	100	81-117	
1,4-Bromofluorobenzene	100	74-121	

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260A Volatile Organics

Client Name:	Alton Geoscience		
Project ID:	Mobil Jalk Fee		
Work Order Number:	98-06-0540		
QC Batch ID:	980619AS	Date Collected:	06/10/98
Matrix:	Solid	Date Received:	06/18/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8260A	Date Analyzed:	06/19/98

Client Sample Number: **EX1-7-11.5**
Lab Sample Number: 98-06-0540-2

Parameter	Result	RL	Qualifiers	Units
Acetone	ND	50		ug/kg
Benzene	ND	5		ug/kg
Bromobenzene	ND	5		ug/kg
Bromochloromethane	ND	5		ug/kg
Bromodichloromethane	ND	5		ug/kg
Bromoform	ND	5		ug/kg
Bromomethane	ND	5		ug/kg
2-Butanone	ND	50		ug/kg
n-Butylbenzene	ND	5		ug/kg
sec-Butylbenzene	ND	5		ug/kg
tert-Butylbenzene	ND	5		ug/kg
Carbon Disulfide	ND	50		ug/kg
Carbon Tetrachloride	ND	5		ug/kg
Chlorobenzene	ND	5		ug/kg
Chloroethane	ND	5		ug/kg
Chloroform	ND	5		ug/kg
Chloromethane	ND	5		ug/kg
2-Chlorotoluene	ND	5		ug/kg
4-Chlorotoluene	ND	5		ug/kg
Dibromochloromethane	ND	5		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5		ug/kg
1,2-Dibromoethane	ND	5		ug/kg
Dibromomethane	ND	5		ug/kg
1,2-Dichlorobenzene	ND	5		ug/kg
1,3-Dichlorobenzene	ND	5		ug/kg
1,4-Dichlorobenzene	ND	5		ug/kg
Dichlorodifluoromethane	ND	5		ug/kg
1,1-Dichloroethane	ND	5		ug/kg
1,2-Dichloroethane	ND	5		ug/kg
1,1-Dichloroethene	ND	5		ug/kg
c-1,2-Dichloroethene	ND	5		ug/kg
t-1,2-Dichloroethene	ND	5		ug/kg
1,2-Dichloropropane	ND	5		ug/kg
1,3-Dichloropropane	ND	5		ug/kg

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT
EPA 8260A Volatile Organics

Client Name:	Alton Geoscience		
Project ID:	Mobil Jalk Fee		
Work Order Number:	98-06-0540		
QC Batch ID:	980619AS	Date Collected:	06/10/98
Matrix:	Solid	Date Received:	06/18/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8260A	Date Analyzed:	06/19/98

Client Sample Number: **EX1-7-11.5**
Lab Sample Number: 98-06-0540-2

Parameter	Result	RL	Qualifiers	Units
2,2-Dichloropropane	ND	5		ug/kg
1,1-Dichloropropene	ND	5		ug/kg
c-1,3-Dichloropropene	ND	5		ug/kg
t-1,3-Dichloropropene	ND	5		ug/kg
Ethylbenzene	ND	5		ug/kg
2-Hexanone	ND	50		ug/kg
Isopropylbenzene	ND	5		ug/kg
p-Isopropyltoluene	ND	5		ug/kg
Methylene Chloride	ND	50		ug/kg
4-Methyl-2-Pentanone	ND	50		ug/kg
Naphthalene	ND	50		ug/kg
n-Propylbenzene	ND	5		ug/kg
Styrene	ND	5		ug/kg
1,1,1,2-Tetrachloroethane	ND	5		ug/kg
1,1,2,2-Tetrachloroethane	ND	5		ug/kg
Tetrachloroethene	ND	5		ug/kg
Toluene	ND	5		ug/kg
1,2,3-Trichlorobenzene	ND	10		ug/kg
1,2,4-Trichlorobenzene	ND	5		ug/kg
1,1,1-Trichloroethane	ND	5		ug/kg
1,1,2-Trichloroethane	ND	5		ug/kg
Trichloroethene	ND	5		ug/kg
Trichlorofluoromethane	ND	50		ug/kg
1,2,3-Trichloropropane	ND	5		ug/kg
1,2,4-Trimethylbenzene	ND	5		ug/kg
1,3,5-Trimethylbenzene	ND	5		ug/kg
Vinyl Acetate	ND	50		ug/kg
Vinyl Chloride	ND	5		ug/kg
p/m-Xylene	ND	5		ug/kg
o-Xylene	ND	5		ug/kg
Methyl-tert-Butyl Ether	ND	5		ug/kg

Surrogates:	REC (%)	Control Limits	Qualifiers
Dibromofluoromethane	99	80-120	

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260A Volatile Organics

Client Name:	Alton Geoscience		
Project ID:	Mobil Jalk Fee		
Work Order Number:	98-06-0540		
QC Batch ID:	980619AS	Date Collected:	06/10/98
Matrix:	Solid	Date Received:	06/18/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8260A	Date Analyzed:	06/19/98

Client Sample Number: **EX1-7-11.5**
Lab Sample Number: 98-06-0540-2

Surrogates:	REC (%)	Control Limits	Qualifiers
Toluene-d8	100	81-117	
1,4-Bromofluorobenzene	98	74-121	

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT
EPA 8260A Volatile Organics

Client Name:	Alton Geoscience		
Project ID:	Mobil Jalk Fee		
Work Order Number:	98-06-0540		
QC Batch ID:	980619AS	Date Collected:	06/10/98
Matrix:	Solid	Date Received:	06/18/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8260A	Date Analyzed:	06/19/98

Client Sample Number: **EX1-5-5.5**
Lab Sample Number: 98-06-0540-3

Parameter	Result	RL	Qualifiers	Units
Acetone	ND	50		ug/kg
Benzene	ND	5		ug/kg
Bromobenzene	ND	5		ug/kg
Bromochloromethane	ND	5		ug/kg
Bromodichloromethane	ND	5		ug/kg
Bromoform	ND	5		ug/kg
Bromomethane	ND	5		ug/kg
2-Butanone	ND	50		ug/kg
n-Butylbenzene	ND	5		ug/kg
sec-Butylbenzene	ND	5		ug/kg
tert-Butylbenzene	ND	5		ug/kg
Carbon Disulfide	ND	50		ug/kg
Carbon Tetrachloride	ND	5		ug/kg
Chlorobenzene	ND	5		ug/kg
Chloroethane	ND	5		ug/kg
Chloroform	ND	5		ug/kg
Chloromethane	ND	5		ug/kg
2-Chlorotoluene	ND	5		ug/kg
4-Chlorotoluene	ND	5		ug/kg
Dibromochloromethane	ND	5		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5		ug/kg
1,2-Dibromoethane	ND	5		ug/kg
Dibromomethane	ND	5		ug/kg
1,2-Dichlorobenzene	ND	5		ug/kg
1,3-Dichlorobenzene	ND	5		ug/kg
1,4-Dichlorobenzene	ND	5		ug/kg
Dichlorodifluoromethane	ND	5		ug/kg
1,1-Dichloroethane	ND	5		ug/kg
1,2-Dichloroethane	ND	5		ug/kg
1,1-Dichloroethene	ND	5		ug/kg
c-1,2-Dichloroethene	ND	5		ug/kg
t-1,2-Dichloroethene	ND	5		ug/kg
1,2-Dichloropropane	ND	5		ug/kg
1,3-Dichloropropane	ND	5		ug/kg

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260A Volatile Organics

Client Name:	Alton Geoscience		
Project ID:	Mobil Jalk Fee		
Work Order Number:	98-06-0540		
QC Batch ID:	980619AS	Date Collected:	06/10/98
Matrix:	Solid	Date Received:	06/18/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8260A	Date Analyzed:	06/19/98

Client Sample Number: **EX1-5-5.5**
Lab Sample Number: 98-06-0540-3

Parameter	Result	RL	Qualifiers	Units
2,2-Dichloropropane	ND	5		ug/kg
1,1-Dichloropropene	ND	5		ug/kg
c-1,3-Dichloropropene	ND	5		ug/kg
t-1,3-Dichloropropene	ND	5		ug/kg
Ethylbenzene	ND	5		ug/kg
2-Hexanone	ND	50		ug/kg
Isopropylbenzene	ND	5		ug/kg
p-Isopropyltoluene	ND	5		ug/kg
Methylene Chloride	ND	50		ug/kg
4-Methyl-2-Pentanone	ND	50		ug/kg
Naphthalene	ND	50		ug/kg
n-Propylbenzene	ND	5		ug/kg
Styrene	ND	5		ug/kg
1,1,1,2-Tetrachloroethane	ND	5		ug/kg
1,1,2,2-Tetrachloroethane	ND	5		ug/kg
Tetrachloroethene	ND	5		ug/kg
Toluene	ND	5		ug/kg
1,2,3-Trichlorobenzene	ND	10		ug/kg
1,2,4-Trichlorobenzene	ND	5		ug/kg
1,1,1-Trichloroethane	ND	5		ug/kg
1,1,2-Trichloroethane	ND	5		ug/kg
Trichloroethene	ND	5		ug/kg
Trichlorofluoromethane	ND	50		ug/kg
1,2,3-Trichloropropane	ND	5		ug/kg
1,2,4-Trimethylbenzene	ND	5		ug/kg
1,3,5-Trimethylbenzene	ND	5		ug/kg
Vinyl Acetate	ND	50		ug/kg
Vinyl Chloride	ND	5		ug/kg
p/m-Xylene	ND	5		ug/kg
o-Xylene	ND	5		ug/kg
Methyl-tert-Butyl Ether	ND	5		ug/kg

Surrogates:	REC (%)	Control Limits	Qualifiers
Dibromofluoromethane	100	80-120	

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260A Volatile Organics

Client Name:	Alton Geoscience		
Project ID:	Mobil Jalk Fee		
Work Order Number:	98-06-0540		
QC Batch ID:	980619AS	Date Collected:	06/10/98
Matrix:	Solid	Date Received:	06/18/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8260A	Date Analyzed:	06/19/98

Client Sample Number: **EX1-5-5.5**

Lab Sample Number: 98-06-0540-3

Surrogates:	REC (%)	Control Limits	Qualifiers
Toluene-d8	95	81-117	
1,4-Bromofluorobenzene	99	74-121	

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ANALYTICAL REPORT

EPA 8260A Volatile Organics

Client Name:	Alton Geoscience		
Project ID:	Mobil Jalk Fee		
Work Order Number:	98-06-0540		
QC Batch ID:	980619AS	Date Collected:	06/09/98
Matrix:	Solid	Date Received:	06/18/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8260A	Date Analyzed:	06/19/98

Client Sample Number: **EX1-3-5.5**
Lab Sample Number: 98-06-0540-4

Parameter	Result	RL	Qualifiers	Units
Acetone	ND	50		ug/kg
Benzene	ND	5		ug/kg
Bromobenzene	ND	5		ug/kg
Bromochloromethane	ND	5		ug/kg
Bromodichloromethane	ND	5		ug/kg
Bromoform	ND	5		ug/kg
Bromomethane	ND	5		ug/kg
2-Butanone	ND	50		ug/kg
n-Butylbenzene	ND	5		ug/kg
sec-Butylbenzene	ND	5		ug/kg
tert-Butylbenzene	ND	5		ug/kg
Carbon Disulfide	ND	50		ug/kg
Carbon Tetrachloride	ND	5		ug/kg
Chlorobenzene	ND	5		ug/kg
Chloroethane	ND	5		ug/kg
Chloroform	ND	5		ug/kg
Chloromethane	ND	5		ug/kg
2-Chlorotoluene	ND	5		ug/kg
4-Chlorotoluene	ND	5		ug/kg
Dibromochloromethane	ND	5		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5		ug/kg
1,2-Dibromoethane	ND	5		ug/kg
Dibromomethane	ND	5		ug/kg
1,2-Dichlorobenzene	ND	5		ug/kg
1,3-Dichlorobenzene	ND	5		ug/kg
1,4-Dichlorobenzene	ND	5		ug/kg
Dichlorodifluoromethane	ND	5		ug/kg
1,1-Dichloroethane	ND	5		ug/kg
1,2-Dichloroethane	ND	5		ug/kg
1,1-Dichloroethene	ND	5		ug/kg
c-1,2-Dichloroethene	ND	5		ug/kg
t-1,2-Dichloroethene	ND	5		ug/kg
1,2-Dichloropropane	ND	5		ug/kg
1,3-Dichloropropane	ND	5		ug/kg

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260A Volatile Organics

Client Name:	Alton Geoscience		
Project ID:	Mobil Jalk Fee		
Work Order Number:	98-06-0540		
QC Batch ID:	980619AS	Date Collected:	06/09/98
Matrix:	Solid	Date Received:	06/18/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8260A	Date Analyzed:	06/19/98

Client Sample Number: **EX1-3-5.5**
Lab Sample Number: 98-06-0540-4

Parameter	Result	RL	Qualifiers	Units
2,2-Dichloropropane	ND	5		ug/kg
1,1-Dichloropropene	ND	5		ug/kg
c-1,3-Dichloropropene	ND	5		ug/kg
t-1,3-Dichloropropene	ND	5		ug/kg
Ethylbenzene	ND	5		ug/kg
2-Hexanone	ND	50		ug/kg
Isopropylbenzene	ND	5		ug/kg
p-Isopropyltoluene	ND	5		ug/kg
Methylene Chloride	ND	50		ug/kg
4-Methyl-2-Pentanone	ND	50		ug/kg
Naphthalene	ND	50		ug/kg
n-Propylbenzene	ND	5		ug/kg
Styrene	ND	5		ug/kg
1,1,1,2-Tetrachloroethane	ND	5		ug/kg
1,1,2,2-Tetrachloroethane	ND	5		ug/kg
Tetrachloroethene	ND	5		ug/kg
Toluene	ND	5		ug/kg
1,2,3-Trichlorobenzene	ND	10		ug/kg
1,2,4-Trichlorobenzene	ND	5		ug/kg
1,1,1-Trichloroethane	ND	5		ug/kg
1,1,2-Trichloroethane	ND	5		ug/kg
Trichloroethene	ND	5		ug/kg
Trichlorofluoromethane	ND	50		ug/kg
1,2,3-Trichloropropane	ND	5		ug/kg
1,2,4-Trimethylbenzene	ND	5		ug/kg
1,3,5-Trimethylbenzene	ND	5		ug/kg
Vinyl Acetate	ND	50		ug/kg
Vinyl Chloride	ND	5		ug/kg
p/m-Xylene	ND	5		ug/kg
o-Xylene	ND	5		ug/kg
Methyl-tert-Butyl Ether	ND	5		ug/kg

Surrogates:	REC (%)	Control Limits	Qualifiers
Dibromofluoromethane	100	80-120	

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ANALYTICAL REPORT

EPA 8260A Volatile Organics

Client Name:	Alton Geoscience		
Project ID:	Mobil Jalk Fee		
Work Order Number:	98-06-0540		
QC Batch ID:	980619AS	Date Collected:	06/09/98
Matrix:	Solid	Date Received:	06/18/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8260A	Date Analyzed:	06/19/98

Client Sample Number: **EX1-3-5.5**
Lab Sample Number: 98-06-0540-4

Surrogates:	REC (%)	Control Limits	Qualifiers
Toluene-d8	100	81-117	
1,4-Bromofluorobenzene	97	74-121	

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT
EPA 8260A Volatile Organics

Client Name:	Alton Geoscience		
Project ID:	Mobil Jalk Fee		
Work Order Number:	98-06-0540		
QC Batch ID:	980619AS	Date Collected:	06/09/98
Matrix:	Solid	Date Received:	06/18/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8260A	Date Analyzed:	06/19/98

Client Sample Number: **EX2-2-5.5**
Lab Sample Number: 98-06-0540-5

Parameter	Result	RL	Qualifiers	Units
Acetone	ND	50		ug/kg
Benzene	ND	5		ug/kg
Bromobenzene	ND	5		ug/kg
Bromochloromethane	ND	5		ug/kg
Bromodichloromethane	ND	5		ug/kg
Bromoform	ND	5		ug/kg
Bromomethane	ND	5		ug/kg
2-Butanone	ND	50		ug/kg
n-Butylbenzene	ND	5		ug/kg
sec-Butylbenzene	ND	5		ug/kg
tert-Butylbenzene	ND	5		ug/kg
Carbon Disulfide	ND	50		ug/kg
Carbon Tetrachloride	ND	5		ug/kg
Chlorobenzene	ND	5		ug/kg
Chloroethane	ND	5		ug/kg
Chloroform	ND	5		ug/kg
Chloromethane	ND	5		ug/kg
2-Chlorotoluene	ND	5		ug/kg
4-Chlorotoluene	ND	5		ug/kg
Dibromochloromethane	ND	5		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5		ug/kg
1,2-Dibromoethane	ND	5		ug/kg
Dibromomethane	ND	5		ug/kg
1,2-Dichlorobenzene	ND	5		ug/kg
1,3-Dichlorobenzene	ND	5		ug/kg
1,4-Dichlorobenzene	ND	5		ug/kg
Dichlorodifluoromethane	ND	5		ug/kg
1,1-Dichloroethane	ND	5		ug/kg
1,2-Dichloroethane	ND	5		ug/kg
1,1-Dichloroethene	ND	5		ug/kg
c-1,2-Dichloroethene	ND	5		ug/kg
t-1,2-Dichloroethene	ND	5		ug/kg
1,2-Dichloropropane	ND	5		ug/kg
1,3-Dichloropropane	ND	5		ug/kg

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260A Volatile Organics

Client Name:	Alton Geoscience		
Project ID:	Mobil Jalk Fee		
Work Order Number:	98-06-0540		
QC Batch ID:	980619AS	Date Collected:	06/09/98
Matrix:	Solid	Date Received:	06/18/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8260A	Date Analyzed:	06/19/98

Client Sample Number: **EX2-2-5.5**
Lab Sample Number: 98-06-0540-5

Parameter	Result	RL	Qualifiers	Units
2,2-Dichloropropane	ND	5		ug/kg
1,1-Dichloropropene	ND	5		ug/kg
c-1,3-Dichloropropene	ND	5		ug/kg
t-1,3-Dichloropropene	ND	5		ug/kg
Ethylbenzene	ND	5		ug/kg
2-Hexanone	ND	50		ug/kg
Isopropylbenzene	ND	5		ug/kg
p-Isopropyltoluene	ND	5		ug/kg
Methylene Chloride	ND	50		ug/kg
4-Methyl-2-Pentanone	ND	50		ug/kg
Naphthalene	ND	50		ug/kg
n-Propylbenzene	ND	5		ug/kg
Styrene	ND	5		ug/kg
1,1,1,2-Tetrachloroethane	ND	5		ug/kg
1,1,2,2-Tetrachloroethane	ND	5		ug/kg
Tetrachloroethene	ND	5		ug/kg
Toluene	ND	5		ug/kg
1,2,3-Trichlorobenzene	ND	10		ug/kg
1,2,4-Trichlorobenzene	ND	5		ug/kg
1,1,1-Trichloroethane	ND	5		ug/kg
1,1,2-Trichloroethane	ND	5		ug/kg
Trichloroethene	ND	5		ug/kg
Trichlorofluoromethane	ND	50		ug/kg
1,2,3-Trichloropropane	ND	5		ug/kg
1,2,4-Trimethylbenzene	ND	5		ug/kg
1,3,5-Trimethylbenzene	ND	5		ug/kg
Vinyl Acetate	ND	50		ug/kg
Vinyl Chloride	ND	5		ug/kg
p/m-Xylene	ND	5		ug/kg
o-Xylene	ND	5		ug/kg
Methyl-tert-Butyl Ether	ND	5		ug/kg

Surrogates:	REC (%)	Control Limits	Qualifiers
Dibromofluoromethane	101	80-120	

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260A Volatile Organics

Client Name:	Alton Geoscience		
Project ID:	Mobil Jalk Fee		
Work Order Number:	98-06-0540		
QC Batch ID:	980619AS	Date Collected:	06/09/98
Matrix:	Solid	Date Received:	06/18/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8260A	Date Analyzed:	06/19/98

Client Sample Number: **EX2-2-5.5**

Lab Sample Number: 98-06-0540-5

Surrogates:	REC (%)	Control Limits	Qualifiers
Toluene-d8	99	81-117	
1,4-Bromofluorobenzene	99	74-121	

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260A Volatile Organics

Client Name:	Alton Geoscience		
Project ID:	Mobil Jalk Fee		
Work Order Number:	98-06-0540		
QC Batch ID:	980619AS	Date Collected:	06/09/98
Matrix:	Solid	Date Received:	06/18/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8260A	Date Analyzed:	06/19/98

Client Sample Number: **EX2-1-5.5**
Lab Sample Number: 98-06-0540-6

Parameter	Result	RL	Qualifiers	Units
Acetone	ND	50		ug/kg
Benzene	ND	5		ug/kg
Bromobenzene	ND	5		ug/kg
Bromochloromethane	ND	5		ug/kg
Bromodichloromethane	ND	5		ug/kg
Bromoform	ND	5		ug/kg
Bromomethane	ND	5		ug/kg
2-Butanone	ND	50		ug/kg
n-Butylbenzene	ND	5		ug/kg
sec-Butylbenzene	ND	5		ug/kg
tert-Butylbenzene	ND	5		ug/kg
Carbon Disulfide	ND	50		ug/kg
Carbon Tetrachloride	ND	5		ug/kg
Chlorobenzene	ND	5		ug/kg
Chloroethane	ND	5		ug/kg
Chloroform	ND	5		ug/kg
Chloromethane	ND	5		ug/kg
2-Chlorotoluene	ND	5		ug/kg
4-Chlorotoluene	ND	5		ug/kg
Dibromochloromethane	ND	5		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5		ug/kg
1,2-Dibromoethane	ND	5		ug/kg
Dibromomethane	ND	5		ug/kg
1,2-Dichlorobenzene	ND	5		ug/kg
1,3-Dichlorobenzene	ND	5		ug/kg
1,4-Dichlorobenzene	ND	5		ug/kg
Dichlorodifluoromethane	ND	5		ug/kg
1,1-Dichloroethane	ND	5		ug/kg
1,2-Dichloroethane	ND	5		ug/kg
1,1-Dichloroethene	ND	5		ug/kg
c-1,2-Dichloroethene	ND	5		ug/kg
t-1,2-Dichloroethene	ND	5		ug/kg
1,2-Dichloropropane	ND	5		ug/kg
1,3-Dichloropropane	ND	5		ug/kg

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260A Volatile Organics

Client Name:	Alton Geoscience		
Project ID:	Mobil Jalk Fee		
Work Order Number:	98-06-0540		
QC Batch ID:	980619AS	Date Collected:	06/09/98
Matrix:	Solid	Date Received:	06/18/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8260A	Date Analyzed:	06/19/98

Client Sample Number: **EX2-1-5.5**
Lab Sample Number: 98-06-0540-6

Parameter	Result	RL	Qualifiers	Units
2,2-Dichloropropane	ND	5		ug/kg
1,1-Dichloropropene	ND	5		ug/kg
c-1,3-Dichloropropene	ND	5		ug/kg
t-1,3-Dichloropropene	ND	5		ug/kg
Ethylbenzene	ND	5		ug/kg
2-Hexanone	ND	50		ug/kg
Isopropylbenzene	ND	5		ug/kg
p-Isopropyltoluene	ND	5		ug/kg
Methylene Chloride	ND	50		ug/kg
4-Methyl-2-Pentanone	ND	50		ug/kg
Naphthalene	ND	50		ug/kg
n-Propylbenzene	ND	5		ug/kg
Styrene	9	5		ug/kg
1,1,1,2-Tetrachloroethane	ND	5		ug/kg
1,1,2,2-Tetrachloroethane	ND	5		ug/kg
Tetrachloroethene	15	5		ug/kg
Toluene	8	5		ug/kg
1,2,3-Trichlorobenzene	ND	10		ug/kg
1,2,4-Trichlorobenzene	ND	5		ug/kg
1,1,1-Trichloroethane	ND	5		ug/kg
1,1,2-Trichloroethane	ND	5		ug/kg
Trichloroethene	ND	5		ug/kg
Trichlorofluoromethane	ND	50		ug/kg
1,2,3-Trichloropropane	ND	5		ug/kg
1,2,4-Trimethylbenzene	ND	5		ug/kg
1,3,5-Trimethylbenzene	ND	5		ug/kg
Vinyl Acetate	ND	50		ug/kg
Vinyl Chloride	ND	5		ug/kg
p/m-Xylene	10	5		ug/kg
o-Xylene	ND	5		ug/kg
Methyl-tert-Butyl Ether	ND	5		ug/kg

Surrogates:	REC (%)	Control Limits	Qualifiers
Dibromofluoromethane	103	80-120	

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260A Volatile Organics

Client Name:	Alton Geoscience		
Project ID:	Mobil Jalk Fee		
Work Order Number:	98-06-0540		
QC Batch ID:	980619AS	Date Collected:	06/09/98
Matrix:	Solid	Date Received:	06/18/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8260A	Date Analyzed:	06/19/98

Client Sample Number: **EX2-1-5.5**
Lab Sample Number: 98-06-0540-6

Surrogates:	REC (%)	Control Limits	Qualifiers
Toluene-d8	97	81-117	
1,4-Bromofluorobenzene	96	74-121	

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260A Volatile Organics

Client Name:	Alton Geoscience		
Project ID:	Mobil Jalk Fee		
Work Order Number:	98-06-0540		
QC Batch ID:	980619AS	Date Collected:	06/09/98
Matrix:	Solid	Date Received:	06/18/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8260A	Date Analyzed:	06/19/98

Client Sample Number: **EX2-7-6**
Lab Sample Number: 98-06-0540-7

Parameter	Result	RL	Qualifiers	Units
Acetone	ND	50		ug/kg
Benzene	ND	5		ug/kg
Bromobenzene	ND	5		ug/kg
Bromochloromethane	ND	5		ug/kg
Bromodichloromethane	ND	5		ug/kg
Bromoform	ND	5		ug/kg
Bromomethane	ND	5		ug/kg
2-Butanone	ND	50		ug/kg
n-Butylbenzene	ND	5		ug/kg
sec-Butylbenzene	ND	5		ug/kg
tert-Butylbenzene	ND	5		ug/kg
Carbon Disulfide	ND	50		ug/kg
Carbon Tetrachloride	ND	5		ug/kg
Chlorobenzene	ND	5		ug/kg
Chloroethane	ND	5		ug/kg
Chloroform	ND	5		ug/kg
Chloromethane	ND	5		ug/kg
2-Chlorotoluene	ND	5		ug/kg
4-Chlorotoluene	ND	5		ug/kg
Dibromochloromethane	ND	5		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5		ug/kg
1,2-Dibromoethane	ND	5		ug/kg
Dibromomethane	ND	5		ug/kg
1,2-Dichlorobenzene	ND	5		ug/kg
1,3-Dichlorobenzene	ND	5		ug/kg
1,4-Dichlorobenzene	ND	5		ug/kg
Dichlorodifluoromethane	ND	5		ug/kg
1,1-Dichloroethane	ND	5		ug/kg
1,2-Dichloroethane	ND	5		ug/kg
1,1-Dichloroethene	ND	5		ug/kg
c-1,2-Dichloroethene	ND	5		ug/kg
t-1,2-Dichloroethene	ND	5		ug/kg
1,2-Dichloropropane	ND	5		ug/kg
1,3-Dichloropropane	ND	5		ug/kg

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260A Volatile Organics

Client Name:	Alton Geoscience		
Project ID:	Mobil Jalk Fee		
Work Order Number:	98-06-0540		
QC Batch ID:	980619AS	Date Collected:	06/09/98
Matrix:	Solid	Date Received:	06/18/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8260A	Date Analyzed:	06/19/98

Client Sample Number: **EX2-7-6**
Lab Sample Number: 98-06-0540-7

Parameter	Result	RL	Qualifiers	Units
2,2-Dichloropropane	ND	5		ug/kg
1,1-Dichloropropene	ND	5		ug/kg
c-1,3-Dichloropropene	ND	5		ug/kg
t-1,3-Dichloropropene	ND	5		ug/kg
Ethylbenzene	ND	5		ug/kg
2-Hexanone	ND	50		ug/kg
Isopropylbenzene	ND	5		ug/kg
p-Isopropyltoluene	ND	5		ug/kg
Methylene Chloride	ND	50		ug/kg
4-Methyl-2-Pentanone	ND	50		ug/kg
Naphthalene	ND	50		ug/kg
n-Propylbenzene	ND	5		ug/kg
Styrene	ND	5		ug/kg
1,1,1,2-Tetrachloroethane	ND	5		ug/kg
1,1,2,2-Tetrachloroethane	ND	5		ug/kg
Tetrachloroethene	ND	5		ug/kg
Toluene	ND	5		ug/kg
1,2,3-Trichlorobenzene	ND	10		ug/kg
1,2,4-Trichlorobenzene	ND	5		ug/kg
1,1,1-Trichloroethane	ND	5		ug/kg
1,1,2-Trichloroethane	ND	5		ug/kg
Trichloroethene	ND	5		ug/kg
Trichlorofluoromethane	ND	50		ug/kg
1,2,3-Trichloropropane	ND	5		ug/kg
1,2,4-Trimethylbenzene	ND	5		ug/kg
1,3,5-Trimethylbenzene	ND	5		ug/kg
Vinyl Acetate	ND	50		ug/kg
Vinyl Chloride	ND	5		ug/kg
p/m-Xylene	ND	5		ug/kg
o-Xylene	ND	5		ug/kg
Methyl-tert-Butyl Ether	ND	5		ug/kg

Surrogates:	REC (%)	Control Limits	Qualifiers
Dibromofluoromethane	100	80-120	

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260A Volatile Organics

Client Name:	Alton Geoscience		
Project ID:	Mobil Jalk Fee		
Work Order Number:	98-06-0540		
QC Batch ID:	980619AS	Date Collected:	06/09/98
Matrix:	Solid	Date Received:	06/18/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8260A	Date Analyzed:	06/19/98

Client Sample Number: **EX2-7-6**

Lab Sample Number: 98-06-0540-7

Surrogates:	REC (%)	Control Limits	Qualifiers
Toluene-d8	97	81-117	
1,4-Bromofluorobenzene	96	74-121	

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260A Volatile Organics

Client Name:	Alton Geoscience		
Project ID:	Mobil Jalk Fee		
Work Order Number:	98-06-0540		
QC Batch ID:	980619AS	Date Collected:	06/09/98
Matrix:	Solid	Date Received:	06/18/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8260A	Date Analyzed:	06/19/98

Client Sample Number: **EX2-8-6**
Lab Sample Number: 98-06-0540-8

Parameter	Result	RL	Qualifiers	Units
Acetone	ND	50		ug/kg
Benzene	ND	5		ug/kg
Bromobenzene	ND	5		ug/kg
Bromochloromethane	ND	5		ug/kg
Bromodichloromethane	ND	5		ug/kg
Bromoform	ND	5		ug/kg
Bromomethane	ND	5		ug/kg
2-Butanone	ND	50		ug/kg
n-Butylbenzene	ND	5		ug/kg
sec-Butylbenzene	ND	5		ug/kg
tert-Butylbenzene	ND	5		ug/kg
Carbon Disulfide	ND	50		ug/kg
Carbon Tetrachloride	ND	5		ug/kg
Chlorobenzene	ND	5		ug/kg
Chloroethane	ND	5		ug/kg
Chloroform	ND	5		ug/kg
Chloromethane	ND	5		ug/kg
2-Chlorotoluene	ND	5		ug/kg
4-Chlorotoluene	ND	5		ug/kg
Dibromochloromethane	ND	5		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5		ug/kg
1,2-Dibromoethane	ND	5		ug/kg
Dibromomethane	ND	5		ug/kg
1,2-Dichlorobenzene	ND	5		ug/kg
1,3-Dichlorobenzene	ND	5		ug/kg
1,4-Dichlorobenzene	ND	5		ug/kg
Dichlorodifluoromethane	ND	5		ug/kg
1,1-Dichloroethane	ND	5		ug/kg
1,2-Dichloroethane	ND	5		ug/kg
1,1-Dichloroethene	ND	5		ug/kg
c-1,2-Dichloroethene	ND	5		ug/kg
t-1,2-Dichloroethene	ND	5		ug/kg
1,2-Dichloropropane	ND	5		ug/kg
1,3-Dichloropropane	ND	5		ug/kg

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260A Volatile Organics

Client Name:	Alton Geoscience		
Project ID:	Mobil Jalk Fee		
Work Order Number:	98-06-0540		
QC Batch ID:	980619AS	Date Collected:	06/09/98
Matrix:	Solid	Date Received:	06/18/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8260A	Date Analyzed:	06/19/98

Client Sample Number: **EX2-8-6**
Lab Sample Number: 98-06-0540-8

Parameter	Result	RL	Qualifiers	Units
2,2-Dichloropropane	ND	5		ug/kg
1,1-Dichloropropene	ND	5		ug/kg
c-1,3-Dichloropropene	ND	5		ug/kg
t-1,3-Dichloropropene	ND	5		ug/kg
Ethylbenzene	ND	5		ug/kg
2-Hexanone	ND	50		ug/kg
Isopropylbenzene	ND	5		ug/kg
p-Isopropyltoluene	ND	5		ug/kg
Methylene Chloride	ND	50		ug/kg
4-Methyl-2-Pentanone	ND	50		ug/kg
Naphthalene	ND	50		ug/kg
n-Propylbenzene	ND	5		ug/kg
Styrene	ND	5		ug/kg
1,1,1,2-Tetrachloroethane	ND	5		ug/kg
1,1,2,2-Tetrachloroethane	ND	5		ug/kg
Tetrachloroethene	ND	5		ug/kg
Toluene	ND	5		ug/kg
1,2,3-Trichlorobenzene	ND	10		ug/kg
1,2,4-Trichlorobenzene	ND	5		ug/kg
1,1,1-Trichloroethane	ND	5		ug/kg
1,1,2-Trichloroethane	ND	5		ug/kg
Trichloroethene	ND	5		ug/kg
Trichlorofluoromethane	ND	50		ug/kg
1,2,3-Trichloropropane	ND	5		ug/kg
1,2,4-Trimethylbenzene	ND	5		ug/kg
1,3,5-Trimethylbenzene	ND	5		ug/kg
Vinyl Acetate	ND	50		ug/kg
Vinyl Chloride	ND	5		ug/kg
p/m-Xylene	ND	5		ug/kg
o-Xylene	ND	5		ug/kg
Methyl-tert-Butyl Ether	ND	5		ug/kg

Surrogates:	REC (%)	Control Limits	Qualifiers
Dibromofluoromethane	101	80-120	

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260A Volatile Organics

Client Name:	Alton Geoscience		
Project ID:	Mobil Jalk Fee		
Work Order Number:	98-06-0540		
QC Batch ID:	980619AS	Date Collected:	06/09/98
Matrix:	Solid	Date Received:	06/18/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8260A	Date Analyzed:	06/19/98

Client Sample Number: **EX2-8-6**

Lab Sample Number: 98-06-0540-8

Surrogates:	REC (%)	Control Limits	Qualifiers
Toluene-d8	100	81-117	
1,4-Bromofluorobenzene	98	74-121	

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260A Volatile Organics

Client Name:	Alton Geoscience		
Project ID:	Mobil Jalk Fee		
Work Order Number:	98-06-0540		
QC Batch ID:	980619AS	Date Collected:	06/09/98
Matrix:	Solid	Date Received:	06/18/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8260A	Date Analyzed:	06/19/98

Client Sample Number: **EX2-9-6.5**

Lab Sample Number: 98-06-0540-9

Parameter	Result	RL	Qualifiers	Units
Acetone	ND	50		ug/kg
Benzene	ND	5		ug/kg
Bromobenzene	ND	5		ug/kg
Bromochloromethane	ND	5		ug/kg
Bromodichloromethane	ND	5		ug/kg
Bromoform	ND	5		ug/kg
Bromomethane	ND	5		ug/kg
2-Butanone	ND	50		ug/kg
n-Butylbenzene	ND	5		ug/kg
sec-Butylbenzene	ND	5		ug/kg
tert-Butylbenzene	ND	5		ug/kg
Carbon Disulfide	ND	50		ug/kg
Carbon Tetrachloride	ND	5		ug/kg
Chlorobenzene	ND	5		ug/kg
Chloroethane	ND	5		ug/kg
Chloroform	ND	5		ug/kg
Chloromethane	ND	5		ug/kg
2-Chlorotoluene	ND	5		ug/kg
4-Chlorotoluene	ND	5		ug/kg
Dibromochloromethane	ND	5		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5		ug/kg
1,2-Dibromoethane	ND	5		ug/kg
Dibromomethane	ND	5		ug/kg
1,2-Dichlorobenzene	ND	5		ug/kg
1,3-Dichlorobenzene	ND	5		ug/kg
1,4-Dichlorobenzene	ND	5		ug/kg
Dichlorodifluoromethane	ND	5		ug/kg
1,1-Dichloroethane	ND	5		ug/kg
1,2-Dichloroethane	ND	5		ug/kg
1,1-Dichloroethene	ND	5		ug/kg
c-1,2-Dichloroethene	ND	5		ug/kg
t-1,2-Dichloroethene	ND	5		ug/kg
1,2-Dichloropropane	ND	5		ug/kg
1,3-Dichloropropane	ND	5		ug/kg

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260A Volatile Organics

Client Name:	Alton Geoscience		
Project ID:	Mobil Jalk Fee		
Work Order Number:	98-06-0540		
QC Batch ID:	980619AS	Date Collected:	06/09/98
Matrix:	Solid	Date Received:	06/18/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8260A	Date Analyzed:	06/19/98

Client Sample Number: **EX2-9-6.5**
Lab Sample Number: 98-06-0540-9

Parameter	Result	RL	Qualifiers	Units
2,2-Dichloropropane	ND	5		ug/kg
1,1-Dichloropropene	ND	5		ug/kg
c-1,3-Dichloropropene	ND	5		ug/kg
t-1,3-Dichloropropene	ND	5		ug/kg
Ethylbenzene	ND	5		ug/kg
2-Hexanone	ND	50		ug/kg
Isopropylbenzene	ND	5		ug/kg
p-Isopropyltoluene	ND	5		ug/kg
Methylene Chloride	ND	50		ug/kg
4-Methyl-2-Pentanone	ND	50		ug/kg
Naphthalene	ND	50		ug/kg
n-Propylbenzene	ND	5		ug/kg
Styrene	ND	5		ug/kg
1,1,1,2-Tetrachloroethane	ND	5		ug/kg
1,1,2,2-Tetrachloroethane	ND	5		ug/kg
Tetrachloroethene	ND	5		ug/kg
Toluene	ND	5		ug/kg
1,2,3-Trichlorobenzene	ND	10		ug/kg
1,2,4-Trichlorobenzene	ND	5		ug/kg
1,1,1-Trichloroethane	ND	5		ug/kg
1,1,2-Trichloroethane	ND	5		ug/kg
Trichloroethene	ND	5		ug/kg
Trichlorofluoromethane	ND	50		ug/kg
1,2,3-Trichloropropane	ND	5		ug/kg
1,2,4-Trimethylbenzene	ND	5		ug/kg
1,3,5-Trimethylbenzene	ND	5		ug/kg
Vinyl Acetate	ND	50		ug/kg
Vinyl Chloride	ND	5		ug/kg
p/m-Xylene	ND	5		ug/kg
o-Xylene	ND	5		ug/kg
Methyl-tert-Butyl Ether	ND	5		ug/kg

Surrogates:	REC (%)	Control Limits	Qualifiers
Dibromofluoromethane	101	80-120	

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260A Volatile Organics

Client Name:	Alton Geoscience		
Project ID:	Mobil Jalk Fee		
Work Order Number:	98-06-0540		
QC Batch ID:	980619AS	Date Collected:	06/09/98
Matrix:	Solid	Date Received:	06/18/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8260A	Date Analyzed:	06/19/98

Client Sample Number: **EX2-9-6.5**

Lab Sample Number: 98-06-0540-9

Surrogates:	REC (%)	Control Limits	Qualifiers
Toluene-d8	100	81-117	
1,4-Bromofluorobenzene	97	74-121	

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ANALYTICAL REPORT

EPA 8260A Volatile Organics

Client Name:	Alton Geoscience		
Project ID:	Mobil Jalk Fee		
Work Order Number:	98-06-0540		
QC Batch ID:	980619AS	Date Collected:	06/11/98
Matrix:	Solid	Date Received:	06/18/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8260A	Date Analyzed:	06/19/98

Client Sample Number: **EX2-23-6**
Lab Sample Number: 98-06-0540-10

Parameter	Result	RL	Qualifiers	Units
Acetone	ND	50		ug/kg
Benzene	ND	5		ug/kg
Bromobenzene	ND	5		ug/kg
Bromochloromethane	ND	5		ug/kg
Bromodichloromethane	ND	5		ug/kg
Bromoform	ND	5		ug/kg
Bromomethane	ND	5		ug/kg
2-Butanone	ND	50		ug/kg
n-Butylbenzene	ND	5		ug/kg
sec-Butylbenzene	ND	5		ug/kg
tert-Butylbenzene	ND	5		ug/kg
Carbon Disulfide	ND	50		ug/kg
Carbon Tetrachloride	ND	5		ug/kg
Chlorobenzene	ND	5		ug/kg
Chloroethane	ND	5		ug/kg
Chloroform	ND	5		ug/kg
Chloromethane	ND	5		ug/kg
2-Chlorotoluene	ND	5		ug/kg
4-Chlorotoluene	ND	5		ug/kg
Dibromochloromethane	ND	5		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5		ug/kg
1,2-Dibromoethane	ND	5		ug/kg
Dibromomethane	ND	5		ug/kg
1,2-Dichlorobenzene	ND	5		ug/kg
1,3-Dichlorobenzene	ND	5		ug/kg
1,4-Dichlorobenzene	ND	5		ug/kg
Dichlorodifluoromethane	ND	5		ug/kg
1,1-Dichloroethane	ND	5		ug/kg
1,2-Dichloroethane	ND	5		ug/kg
1,1-Dichloroethene	ND	5		ug/kg
c-1,2-Dichloroethene	ND	5		ug/kg
t-1,2-Dichloroethene	ND	5		ug/kg
1,2-Dichloropropane	ND	5		ug/kg
1,3-Dichloropropane	ND	5		ug/kg

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT
EPA 8260A Volatile Organics

Client Name:	Alton Geoscience		
Project ID:	Mobil Jalk Fee		
Work Order Number:	98-06-0540		
QC Batch ID:	980619AS	Date Collected:	06/11/98
Matrix:	Solid	Date Received:	06/18/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8260A	Date Analyzed:	06/19/98

Client Sample Number: **EX2-23-6**
Lab Sample Number: 98-06-0540-10

Parameter	Result	RL	Qualifiers	Units
2,2-Dichloropropane	ND	5		ug/kg
1,1-Dichloropropene	ND	5		ug/kg
c-1,3-Dichloropropene	ND	5		ug/kg
t-1,3-Dichloropropene	ND	5		ug/kg
Ethylbenzene	ND	5		ug/kg
2-Hexanone	ND	50		ug/kg
Isopropylbenzene	ND	5		ug/kg
p-Isopropyltoluene	ND	5		ug/kg
Methylene Chloride	ND	50		ug/kg
4-Methyl-2-Pentanone	ND	50		ug/kg
Naphthalene	ND	50		ug/kg
n-Propylbenzene	ND	5		ug/kg
Styrene	ND	5		ug/kg
1,1,1,2-Tetrachloroethane	ND	5		ug/kg
1,1,2,2-Tetrachloroethane	ND	5		ug/kg
Tetrachloroethene	ND	5		ug/kg
Toluene	ND	5		ug/kg
1,2,3-Trichlorobenzene	ND	10		ug/kg
1,2,4-Trichlorobenzene	ND	5		ug/kg
1,1,1-Trichloroethane	ND	5		ug/kg
1,1,2-Trichloroethane	ND	5		ug/kg
Trichloroethene	ND	5		ug/kg
Trichlorofluoromethane	ND	50		ug/kg
1,2,3-Trichloropropane	ND	5		ug/kg
1,2,4-Trimethylbenzene	ND	5		ug/kg
1,3,5-Trimethylbenzene	ND	5		ug/kg
Vinyl Acetate	ND	50		ug/kg
Vinyl Chloride	ND	5		ug/kg
p/m-Xylene	ND	5		ug/kg
o-Xylene	ND	5		ug/kg
Methyl-tert-Butyl Ether	ND	5		ug/kg

Surrogates:	REC (%)	Control Limits	Qualifiers
Dibromofluoromethane	100	80-120	

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260A Volatile Organics

Client Name:	Alton Geoscience		
Project ID:	Mobil Jalk Fee		
Work Order Number:	98-06-0540		
QC Batch ID:	980619AS	Date Collected:	06/11/98
Matrix:	Solid	Date Received:	06/18/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8260A	Date Analyzed:	06/19/98

Client Sample Number: **EX2-23-6**
Lab Sample Number: 98-06-0540-10

Surrogates:	REC (%)	Control Limits	Qualifiers
Toluene-d8	102	81-117	
1,4-Bromofluorobenzene	98	74-121	

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT
EPA 8260A Volatile Organics

Client Name:	Alton Geoscience		
Project ID:	Mobil Jalk Fee		
Work Order Number:	98-06-0540		
QC Batch ID:	980619BS	Date Collected:	06/11/98
Matrix:	Solid	Date Received:	06/18/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8260A	Date Analyzed:	06/20/98

Client Sample Number: **EX2-23-6.5**
Lab Sample Number: 98-06-0540-11

Parameter	Result	RL	Qualifiers	Units
Acetone	ND	50		ug/kg
Benzene	ND	5		ug/kg
Bromobenzene	ND	5		ug/kg
Bromochloromethane	ND	5		ug/kg
Bromodichloromethane	ND	5		ug/kg
Bromoform	ND	5		ug/kg
Bromomethane	ND	5		ug/kg
2-Butanone	ND	50		ug/kg
n-Butylbenzene	ND	5		ug/kg
sec-Butylbenzene	ND	5		ug/kg
tert-Butylbenzene	ND	5		ug/kg
Carbon Disulfide	ND	50		ug/kg
Carbon Tetrachloride	ND	5		ug/kg
Chlorobenzene	ND	5		ug/kg
Chloroethane	ND	5		ug/kg
Chloroform	ND	5		ug/kg
Chloromethane	ND	5		ug/kg
2-Chlorotoluene	ND	5		ug/kg
4-Chlorotoluene	ND	5		ug/kg
Dibromochloromethane	ND	5		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5		ug/kg
1,2-Dibromoethane	ND	5		ug/kg
Dibromomethane	ND	5		ug/kg
1,2-Dichlorobenzene	ND	5		ug/kg
1,3-Dichlorobenzene	ND	5		ug/kg
1,4-Dichlorobenzene	ND	5		ug/kg
Dichlorodifluoromethane	ND	5		ug/kg
1,1-Dichloroethane	ND	5		ug/kg
1,2-Dichloroethane	ND	5		ug/kg
1,1-Dichloroethene	ND	5		ug/kg
c-1,2-Dichloroethene	ND	5		ug/kg
t-1,2-Dichloroethene	ND	5		ug/kg
1,2-Dichloropropane	ND	5		ug/kg
1,3-Dichloropropane	ND	5		ug/kg

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260A Volatile Organics

Client Name:	Alton Geoscience		
Project ID:	Mobil Jalk Fee		
Work Order Number:	98-06-0540		
QC Batch ID:	980619BS	Date Collected:	06/11/98
Matrix:	Solid	Date Received:	06/18/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8260A	Date Analyzed:	06/20/98

Client Sample Number: **EX2-23-6.5**
Lab Sample Number: 98-06-0540-11

Parameter	Result	RL	Qualifiers	Units
2,2-Dichloropropane	ND	5		ug/kg
1,1-Dichloropropene	ND	5		ug/kg
c-1,3-Dichloropropene	ND	5		ug/kg
t-1,3-Dichloropropene	ND	5		ug/kg
Ethylbenzene	ND	5		ug/kg
2-Hexanone	ND	50		ug/kg
Isopropylbenzene	ND	5		ug/kg
p-Isopropyltoluene	ND	5		ug/kg
Methylene Chloride	ND	50		ug/kg
4-Methyl-2-Pentanone	ND	50		ug/kg
Naphthalene	ND	50		ug/kg
n-Propylbenzene	ND	5		ug/kg
Styrene	ND	5		ug/kg
1,1,1,2-Tetrachloroethane	ND	5		ug/kg
1,1,2,2-Tetrachloroethane	ND	5		ug/kg
Tetrachloroethene	ND	5		ug/kg
Toluene	ND	5		ug/kg
1,2,3-Trichlorobenzene	ND	10		ug/kg
1,2,4-Trichlorobenzene	ND	5		ug/kg
1,1,1-Trichloroethane	ND	5		ug/kg
1,1,2-Trichloroethane	ND	5		ug/kg
Trichloroethene	ND	5		ug/kg
Trichlorofluoromethane	ND	50		ug/kg
1,2,3-Trichloropropane	ND	5		ug/kg
1,2,4-Trimethylbenzene	ND	5		ug/kg
1,3,5-Trimethylbenzene	ND	5		ug/kg
Vinyl Acetate	ND	50		ug/kg
Vinyl Chloride	ND	5		ug/kg
p/m-Xylene	ND	5		ug/kg
o-Xylene	ND	5		ug/kg
Methyl-tert-Butyl Ether	ND	5		ug/kg

Surrogates:	REC (%)	Control Limits	Qualifiers
Dibromofluoromethane	102	80-120	

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260A Volatile Organics

Client Name:	Alton Geoscience		
Project ID:	Mobil Jalk Fee		
Work Order Number:	98-06-0540		
QC Batch ID:	980619BS	Date Collected:	06/11/98
Matrix:	Solid	Date Received:	06/18/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8260A	Date Analyzed:	06/20/98

Client Sample Number: **EX2-23-6.5**

Lab Sample Number: 98-06-0540-11

Surrogates:	REC (%)	Control Limits	Qualifiers
Toluene-d8	98	81-117	
1,4-Bromofluorobenzene	97	74-121	

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260A Volatile Organics

Client Name:	Alton Geoscience		
Project ID:	Mobil Jalk Fee		
Work Order Number:	98-06-0540		
QC Batch ID:	980619BS	Date Collected:	06/09/98
Matrix:	Solid	Date Received:	06/18/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8260A	Date Analyzed:	06/20/98

Client Sample Number: **EX2-10-15**
Lab Sample Number: 98-06-0540-12

Parameter	Result	RL	Qualifiers	Units
Acetone	94	50		ug/kg
Benzene	ND	5		ug/kg
Bromobenzene	ND	5		ug/kg
Bromochloromethane	ND	5		ug/kg
Bromodichloromethane	ND	5		ug/kg
Bromoform	ND	5		ug/kg
Bromomethane	ND	5		ug/kg
2-Butanone	ND	50		ug/kg
n-Butylbenzene	ND	5		ug/kg
sec-Butylbenzene	ND	5		ug/kg
tert-Butylbenzene	ND	5		ug/kg
Carbon Disulfide	ND	50		ug/kg
Carbon Tetrachloride	ND	5		ug/kg
Chlorobenzene	ND	5		ug/kg
Chloroethane	ND	5		ug/kg
Chloroform	ND	5		ug/kg
Chloromethane	ND	5		ug/kg
2-Chlorotoluene	ND	5		ug/kg
4-Chlorotoluene	ND	5		ug/kg
Dibromochloromethane	ND	5		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5		ug/kg
1,2-Dibromoethane	ND	5		ug/kg
Dibromomethane	ND	5		ug/kg
1,2-Dichlorobenzene	ND	5		ug/kg
1,3-Dichlorobenzene	ND	5		ug/kg
1,4-Dichlorobenzene	ND	5		ug/kg
Dichlorodifluoromethane	ND	5		ug/kg
1,1-Dichloroethane	ND	5		ug/kg
1,2-Dichloroethane	ND	5		ug/kg
1,1-Dichloroethene	ND	5		ug/kg
c-1,2-Dichloroethene	ND	5		ug/kg
t-1,2-Dichloroethene	ND	5		ug/kg
1,2-Dichloropropane	ND	5		ug/kg
1,3-Dichloropropane	ND	5		ug/kg

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ANALYTICAL REPORT
EPA 8260A Volatile Organics

Client Name:	Altom Geoscience		
Project ID:	Mobil Jalk Fee		
Work Order Number:	98-06-0540		
QC Batch ID:	980619BS	Date Collected:	06/09/98
Matrix:	Solid	Date Received:	06/18/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8260A	Date Analyzed:	06/20/98

Client Sample Number: **EX2-10-15**
Lab Sample Number: 98-06-0540-12

Parameter	Result	RL	Qualifiers	Units
2,2-Dichloropropane	ND	5		ug/kg
1,1-Dichloropropene	ND	5		ug/kg
c-1,3-Dichloropropene	ND	5		ug/kg
t-1,3-Dichloropropene	ND	5		ug/kg
Ethylbenzene	ND	5		ug/kg
2-Hexanone	ND	50		ug/kg
Isopropylbenzene	ND	5		ug/kg
p-Isopropyltoluene	ND	5		ug/kg
Methylene Chloride	ND	50		ug/kg
4-Methyl-2-Pentanone	ND	50		ug/kg
Naphthalene	ND	50		ug/kg
n-Propylbenzene	ND	5		ug/kg
Styrene	ND	5		ug/kg
1,1,1,2-Tetrachloroethane	ND	5		ug/kg
1,1,2,2-Tetrachloroethane	ND	5		ug/kg
Tetrachloroethene	ND	5		ug/kg
Toluene	ND	5		ug/kg
1,2,3-Trichlorobenzene	ND	10		ug/kg
1,2,4-Trichlorobenzene	ND	5		ug/kg
1,1,1-Trichloroethane	ND	5		ug/kg
1,1,2-Trichloroethane	ND	5		ug/kg
Trichloroethene	ND	5		ug/kg
Trichlorofluoromethane	ND	50		ug/kg
1,2,3-Trichloropropane	ND	5		ug/kg
1,2,4-Trimethylbenzene	ND	5		ug/kg
1,3,5-Trimethylbenzene	ND	5		ug/kg
Vinyl Acetate	ND	50		ug/kg
Vinyl Chloride	ND	5		ug/kg
p/m-Xylene	7	5		ug/kg
o-Xylene	ND	5		ug/kg
Methyl-tert-Butyl Ether	ND	5		ug/kg

Surrogates:	REC (%)	Control Limits	Qualifiers
Dibromofluoromethane	104	80-120	

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260A Volatile Organics

Client Name:	Alton Geoscience		
Project ID:	Mobil Jalk Fee		
Work Order Number:	98-06-0540		
QC Batch ID:	980619BS	Date Collected:	06/09/98
Matrix:	Solid	Date Received:	06/18/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8260A	Date Analyzed:	06/20/98

Client Sample Number: **EX2-10-15**
Lab Sample Number: 98-06-0540-12

Surrogates:	REC (%)	Control Limits	Qualifiers
Toluene-d8	100	81-117	
1,4-Bromofluorobenzene	96	74-121	

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260A Volatile Organics

Client Name:	Alton Geoscience		
Project ID:	Mobil Jalk Fee		
Work Order Number:	98-06-0540		
QC Batch ID:	980619BS	Date Collected:	06/09/98
Matrix:	Solid	Date Received:	06/18/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8260A	Date Analyzed:	06/20/98

Client Sample Number: **EX2-11-15**
Lab Sample Number: 98-06-0540-13

Parameter	Result	RL	Qualifiers	Units
Acetone	382	50		ug/kg
Benzene	23	5		ug/kg
Bromobenzene	ND	5		ug/kg
Bromochloromethane	ND	5		ug/kg
Bromodichloromethane	9	5		ug/kg
Bromoform	ND	5		ug/kg
Bromomethane	ND	5		ug/kg
2-Butanone	86	50		ug/kg
n-Butylbenzene	9	5		ug/kg
sec-Butylbenzene	8	5		ug/kg
tert-Butylbenzene	ND	5		ug/kg
Carbon Disulfide	ND	50		ug/kg
Carbon Tetrachloride	ND	5		ug/kg
Chlorobenzene	ND	5		ug/kg
Chloroethane	ND	5		ug/kg
Chloroform	ND	5		ug/kg
Chloromethane	ND	5		ug/kg
2-Chlorotoluene	ND	5		ug/kg
4-Chlorotoluene	ND	5		ug/kg
Dibromochloromethane	ND	5		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5		ug/kg
1,2-Dibromoethane	ND	5		ug/kg
Dibromomethane	ND	5		ug/kg
1,2-Dichlorobenzene	ND	5		ug/kg
1,3-Dichlorobenzene	ND	5		ug/kg
1,4-Dichlorobenzene	ND	5		ug/kg
Dichlorodifluoromethane	ND	5		ug/kg
1,1-Dichloroethane	ND	5		ug/kg
1,2-Dichloroethane	ND	5		ug/kg
1,1-Dichloroethene	ND	5		ug/kg
c-1,2-Dichloroethene	ND	5		ug/kg
t-1,2-Dichloroethene	12	5		ug/kg
1,2-Dichloropropane	9	5		ug/kg
1,3-Dichloropropane	ND	5		ug/kg

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260A Volatile Organics

Client Name:	Alton Geoscience		
Project ID:	Mobil Jalk Fee		
Work Order Number:	98-06-0540		
QC Batch ID:	980619BS	Date Collected:	06/09/98
Matrix:	Solid	Date Received:	06/18/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8260A	Date Analyzed:	06/20/98

Client Sample Number: **EX2-11-15**
Lab Sample Number: 98-06-0540-13

Parameter	Result	RL	Qualifiers	Units
2,2-Dichloropropane	ND	5		ug/kg
1,1-Dichloropropene	ND	5		ug/kg
c-1,3-Dichloropropene	ND	5		ug/kg
t-1,3-Dichloropropene	ND	5		ug/kg
Ethylbenzene	13	5		ug/kg
2-Hexanone	ND	50		ug/kg
Isopropylbenzene	10	5		ug/kg
p-Isopropyltoluene	24	5		ug/kg
Methylene Chloride	ND	50		ug/kg
4-Methyl-2-Pentanone	ND	50		ug/kg
Naphthalene	ND	50		ug/kg
n-Propylbenzene	ND	5		ug/kg
Styrene	8	5		ug/kg
1,1,1,2-Tetrachloroethane	ND	5		ug/kg
1,1,2,2-Tetrachloroethane	16	5		ug/kg
Tetrachloroethene	ND	5		ug/kg
Toluene	13	5		ug/kg
1,2,3-Trichlorobenzene	ND	10		ug/kg
1,2,4-Trichlorobenzene	ND	5		ug/kg
1,1,1-Trichloroethane	ND	5		ug/kg
1,1,2-Trichloroethane	107	5		ug/kg
Trichloroethene	ND	5		ug/kg
Trichlorofluoromethane	ND	50		ug/kg
1,2,3-Trichloropropane	ND	5		ug/kg
1,2,4-Trimethylbenzene	ND	5		ug/kg
1,3,5-Trimethylbenzene	20	5		ug/kg
Vinyl Acetate	ND	50		ug/kg
Vinyl Chloride	ND	5		ug/kg
p/m-Xylene	20	5		ug/kg
o-Xylene	16	5		ug/kg
Methyl-tert-Butyl Ether	10	5		ug/kg

Surrogates:	REC (%)	Control Limits	Qualifiers
Dibromofluoromethane	108	80-120	

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ANALYTICAL REPORT

EPA 8260A Volatile Organics

Client Name:	Alton Geoscience		
Project ID:	Mobil Jalk Fee		
Work Order Number:	98-06-0540		
QC Batch ID:	980619BS	Date Collected:	06/09/98
Matrix:	Solid	Date Received:	06/18/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8260A	Date Analyzed:	06/20/98

Client Sample Number: **EX2-11-15**

Lab Sample Number: 98-06-0540-13

Surrogates:	REC (%)	Control Limits	Qualifiers
Toluene-d8	104	81-117	
1,4-Bromofluorobenzene	87	74-121	

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ANALYTICAL REPORT

EPA 8260A Volatile Organics

Client Name:	Alton Geoscience		
Project ID:	Mobil Jalk Fee		
Work Order Number:	98-06-0540		
QC Batch ID:	980619AS	Date Collected:	N/A
Matrix:	Solid	Date Received:	N/A
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8260A	Date Analyzed:	06/19/98

Client Sample Number: **Method Blank**
Lab Sample Number: 095-01-025-720

Parameter	Result	RL	Qualifiers	Units
Acetone	ND	50		ug/kg
Benzene	ND	5		ug/kg
Bromobenzene	ND	5		ug/kg
Bromochloromethane	ND	5		ug/kg
Bromodichloromethane	ND	5		ug/kg
Bromoform	ND	5		ug/kg
Bromomethane	ND	5		ug/kg
2-Butanone	ND	50		ug/kg
n-Butylbenzene	ND	5		ug/kg
sec-Butylbenzene	ND	5		ug/kg
tert-Butylbenzene	ND	5		ug/kg
Carbon Disulfide	ND	50		ug/kg
Carbon Tetrachloride	ND	5		ug/kg
Chlorobenzene	ND	5		ug/kg
Chloroethane	ND	5		ug/kg
Chloroform	ND	5		ug/kg
Chloromethane	ND	5		ug/kg
2-Chlorotoluene	ND	5		ug/kg
4-Chlorotoluene	ND	5		ug/kg
Dibromochloromethane	ND	5		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5		ug/kg
1,2-Dibromoethane	ND	5		ug/kg
Dibromomethane	ND	5		ug/kg
1,2-Dichlorobenzene	ND	5		ug/kg
1,3-Dichlorobenzene	ND	5		ug/kg
1,4-Dichlorobenzene	ND	5		ug/kg
Dichlorodifluoromethane	ND	5		ug/kg
1,1-Dichloroethane	ND	5		ug/kg
1,2-Dichloroethane	ND	5		ug/kg
1,1-Dichloroethene	ND	5		ug/kg
c-1,2-Dichloroethene	ND	5		ug/kg
t-1,2-Dichloroethene	ND	5		ug/kg
1,2-Dichloropropane	ND	5		ug/kg
1,3-Dichloropropane	ND	5		ug/kg

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT
EPA 8260A Volatile Organics

Client Name:	Alton Geoscience		
Project ID:	Mobil Jalk Fee		
Work Order Number:	98-06-0540		
QC Batch ID:	980619AS	Date Collected:	N/A
Matrix:	Solid	Date Received:	N/A
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8260A	Date Analyzed:	06/19/98

Client Sample Number: **Method Blank**
Lab Sample Number: 095-01-025-720

Parameter	Result	RL	Qualifiers	Units
2,2-Dichloropropane	ND	5		ug/kg
1,1-Dichloropropene	ND	5		ug/kg
c-1,3-Dichloropropene	ND	5		ug/kg
t-1,3-Dichloropropene	ND	5		ug/kg
Ethylbenzene	ND	5		ug/kg
2-Hexanone	ND	50		ug/kg
Isopropylbenzene	ND	5		ug/kg
p-Isopropyltoluene	ND	5		ug/kg
Methylene Chloride	ND	50		ug/kg
4-Methyl-2-Pentanone	ND	50		ug/kg
Naphthalene	ND	50		ug/kg
n-Propylbenzene	ND	5		ug/kg
Styrene	ND	5		ug/kg
1,1,1,2-Tetrachloroethane	ND	5		ug/kg
1,1,2,2-Tetrachloroethane	ND	5		ug/kg
Tetrachloroethene	ND	5		ug/kg
Toluene	ND	5		ug/kg
1,2,3-Trichlorobenzene	ND	10		ug/kg
1,2,4-Trichlorobenzene	ND	5		ug/kg
1,1,1-Trichloroethane	ND	5		ug/kg
1,1,2-Trichloroethane	ND	5		ug/kg
Trichloroethene	ND	5		ug/kg
Trichlorofluoromethane	ND	50		ug/kg
1,2,3-Trichloropropane	ND	5		ug/kg
1,2,4-Trimethylbenzene	ND	5		ug/kg
1,3,5-Trimethylbenzene	ND	5		ug/kg
Vinyl Acetate	ND	50		ug/kg
Vinyl Chloride	ND	5		ug/kg
p/m-Xylene	ND	5		ug/kg
o-Xylene	ND	5		ug/kg
Methyl-tert-Butyl Ether	ND	5		ug/kg

Surrogates:	REC (%)	Control Limits	Qualifiers
Dibromofluoromethane	99	80-120	

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260A Volatile Organics

Client Name:	Alton Geoscience		
Project ID:	Mobil Jalk Fee		
Work Order Number:	98-06-0540		
QC Batch ID:	980619AS	Date Collected:	N/A
Matrix:	Solid	Date Received:	N/A
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8260A	Date Analyzed:	06/19/98

Client Sample Number: **Method Blank**

Lab Sample Number: 095-01-025-720

Surrogates:	REC (%)	Control Limits	Qualifiers
Toluene-d8	101	81-117	
1,4-Bromofluorobenzene	94	74-121	

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ANALYTICAL REPORT

EPA 8260A Volatile Organics

Client Name:	Alton Geoscience		
Project ID:	Mobil Jalk Fee		
Work Order Number:	98-06-0540		
QC Batch ID:	980619BS	Date Collected:	N/A
Matrix:	Solid	Date Received:	N/A
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8260A	Date Analyzed:	06/20/98

Client Sample Number: **Method Blank 2**

Lab Sample Number: 095-01-025-725

Parameter	Result	RL	Qualifiers	Units
Acetone	ND	50		ug/kg
Benzene	ND	5		ug/kg
Bromobenzene	ND	5		ug/kg
Bromochloromethane	ND	5		ug/kg
Bromodichloromethane	ND	5		ug/kg
Bromoform	ND	5		ug/kg
Bromomethane	ND	5		ug/kg
2-Butanone	ND	50		ug/kg
n-Butylbenzene	ND	5		ug/kg
sec-Butylbenzene	ND	5		ug/kg
tert-Butylbenzene	ND	5		ug/kg
Carbon Disulfide	ND	50		ug/kg
Carbon Tetrachloride	ND	5		ug/kg
Chlorobenzene	ND	5		ug/kg
Chloroethane	ND	5		ug/kg
Chloroform	ND	5		ug/kg
Chloromethane	ND	5		ug/kg
2-Chlorotoluene	ND	5		ug/kg
4-Chlorotoluene	ND	5		ug/kg
Dibromochloromethane	ND	5		ug/kg
1,2-Dibromo-3-Chloropropane	ND	5		ug/kg
1,2-Dibromoethane	ND	5		ug/kg
Dibromomethane	ND	5		ug/kg
1,2-Dichlorobenzene	ND	5		ug/kg
1,3-Dichlorobenzene	ND	5		ug/kg
1,4-Dichlorobenzene	ND	5		ug/kg
Dichlorodifluoromethane	ND	5		ug/kg
1,1-Dichloroethane	ND	5		ug/kg
1,2-Dichloroethane	ND	5		ug/kg
1,1-Dichloroethene	ND	5		ug/kg
c-1,2-Dichloroethene	ND	5		ug/kg
t-1,2-Dichloroethene	ND	5		ug/kg
1,2-Dichloropropane	ND	5		ug/kg
1,3-Dichloropropane	ND	5		ug/kg

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260A Volatile Organics

Client Name:	Alton Geoscience		
Project ID:	Mobil Jalk Fee		
Work Order Number:	98-06-0540		
QC Batch ID:	980619BS	Date Collected:	N/A
Matrix:	Solid	Date Received:	N/A
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8260A	Date Analyzed:	06/20/98

Client Sample Number: **Method Blank 2**
Lab Sample Number: 095-01-025-725

Parameter	Result	RL	Qualifiers	Units
2,2-Dichloropropane	ND	5		ug/kg
1,1-Dichloropropene	ND	5		ug/kg
c-1,3-Dichloropropene	ND	5		ug/kg
t-1,3-Dichloropropene	ND	5		ug/kg
Ethylbenzene	ND	5		ug/kg
2-Hexanone	ND	50		ug/kg
Isopropylbenzene	ND	5		ug/kg
p-Isopropyltoluene	ND	5		ug/kg
Methylene Chloride	ND	50		ug/kg
4-Methyl-2-Pentanone	ND	50		ug/kg
Naphthalene	ND	50		ug/kg
n-Propylbenzene	ND	5		ug/kg
Styrene	ND	5		ug/kg
1,1,1,2-Tetrachloroethane	ND	5		ug/kg
1,1,2,2-Tetrachloroethane	ND	5		ug/kg
Tetrachloroethene	ND	5		ug/kg
Toluene	ND	5		ug/kg
1,2,3-Trichlorobenzene	ND	10		ug/kg
1,2,4-Trichlorobenzene	ND	5		ug/kg
1,1,1-Trichloroethane	ND	5		ug/kg
1,1,2-Trichloroethane	ND	5		ug/kg
Trichloroethene	ND	5		ug/kg
Trichlorofluoromethane	ND	50		ug/kg
1,2,3-Trichloropropane	ND	5		ug/kg
1,2,4-Trimethylbenzene	ND	5		ug/kg
1,3,5-Trimethylbenzene	ND	5		ug/kg
Vinyl Acetate	ND	50		ug/kg
Vinyl Chloride	ND	5		ug/kg
p/m-Xylene	ND	5		ug/kg
o-Xylene	ND	5		ug/kg
Methyl-tert-Butyl Ether	ND	5		ug/kg

Surrogates:	REC (%)	Control Limits	Qualifiers
Dibromofluoromethane	100	80-120	

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ANALYTICAL REPORT

EPA 8260A Volatile Organics

Client Name:	Alton Geoscience		
Project ID:	Mobil Jalk Fee		
Work Order Number:	98-06-0540		
QC Batch ID:	980619BS	Date Collected:	N/A
Matrix:	Solid	Date Received:	N/A
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8260A	Date Analyzed:	06/20/98

Client Sample Number: **Method Blank 2**

Lab Sample Number: 095-01-025-725

Surrogates:	REC (%)	Control Limits	Qualifiers
Toluene-d8	101	81-117	
1,4-Bromofluorobenzene	99	74-121	

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

EPA 8260A Volatile Organics

MS/MSD Batch Number:	060540-2	Instrument:	GC/MS A
Matrix:	Solid	Date Extracted:	N/A
Method:	EPA 8260A	Date Analyzed:	06/20/98

Spiked Sample ID: EX1-7-11.5

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	99	100	72-127	1	0-25	
Carbon Tetrachloride	102	103	70-130	1	0-25	
Chlorobenzene	101	101	72-131	0	0-25	
1,2-Dichlorobenzene	99	102	70-130	3	0-25	
1,1-Dichloroethene	100	102	69-127	2	0-25	
Toluene	99	99	75-124	0	0-25	
Trichloroethene	101	102	60-137	1	0-25	
Vinyl Chloride	96	99	70-130	3	0-25	

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Quality Control - Laboratory Control Sample

EPA 8260A Volatile Organics

LCS Batch Number:	980619AS		
Lab File ID:	19JUN003		
Matrix:	Solid	Instrument:	GC/MS A
Method:	EPA 8260A	Date Analyzed:	06/19/98

LCS Sample Number: 095-01-025-720

Parameter	Conc Added	Conc Recovered	%Rec	%Rec CL	Qualifiers
Benzene	250	247	99	72-127	
Carbon Tetrachloride	250	252	101	70-130	
Chlorobenzene	250	252	101	72-131	
1,2-Dichlorobenzene	250	256	102	70-130	
1,1-Dichloroethene	250	254	102	69-127	
Toluene	250	251	100	75-124	
Trichloroethene	250	249	100	60-137	
Vinyl Chloride	250	242	97	79-118	

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

EPA 8260A Volatile Organics

LCS Batch Number:	980619BS		
Lab File ID:	19JUN025		
Matrix:	Solid	Instrument:	GC/MS A
Method:	EPA 8260A	Date Analyzed:	06/20/98

LCS Sample Number: 095-01-025-725

Parameter	Conc Added	Conc Recovered	%Rec	%Rec CL	Qualifiers
Benzene	250	256	103	72-127	
Carbon Tetrachloride	250	260	104	70-130	
Chlorobenzene	250	255	102	72-131	
1,2-Dichlorobenzene	250	252	101	70-130	
1,1-Dichloroethene	250	257	103	69-127	
Toluene	250	258	103	75-124	
Trichloroethene	250	254	102	60-137	
Vinyl Chloride	250	253	101	79-118	

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GLOSSARY OF TERMS AND QUALIFIERS

Work Order Number: 98-06-0540

Qualifier	Definition
ND	Not detected at indicated reporting limit.

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SAMPLE RECEIPT FORM

Work Order Number:	98-06-0540	Date Received:	06/18/98
Delivery Container Type:	Cooler	Date Opened:	06/18/98
Client Project ID:	Mobil Jalk Fee	Opened By:	JS

Section A: Pass/Fail Criteria

		Comments
1. Chain of custody document(s) received with samples.	Yes	
2. Sample container label(s) consistent with custody papers.	Yes	
3. Sample container label(s) complete (ID, date, time, taken by).	Yes	
4. Sample container(s) intact and in good condition.	Yes	
5. If applicable, proper preservation noted on sample label(s).	Yes	
6. Sufficient sample volume received for analyses requested.	Yes	
7. Correct containers used for analyses requested.	Yes	
8. If applicable, VOA vials free of headspace.	NA	

Section B: Additional Observations

1. Describe packing materials used in container.	NA
2. Was container sealed with custody seals?	No
3. Were all samples sealed in separate plastic bags?	No
4. Measured temperature inside delivery container when opened.	10.0 °C (*)
5. If delivery container shipped by third-party carrier, did container come with shipping slip, airbill, etc.? If YES, attach copy of shipping slip/airbill to the back of this form.	NA

Section C: Additional Comments

(*) Samples received on the counter chilled, but before temperature measured.

(540)

CHAIN-OF-CUSTODY-RECORD

Alton Geoscience
25A Technology Drive, Suite 100
Irvine, California 92618
Phone: (714) 753-0101; FAX: 753-0111
Michael Pitta

Project Name: Mobil Jalk Fee
Project Address: 10607 Norwalk Blvd, Santa Fe Springs, CA
Project Number:
PO Number (if applicable):

Laboratory Project #:

Sample ID	Sample Location	Date *	Time	Lab ID	Soil (S), Water (W), Air (A)	TPH as Gasoline (LUFT)	TPH as Diesel (LUFT)	TRPH (418.1)	BTEX with MTBE (8020)	8260			Number of Containers	Comments/Special Instructions
EX1-11-6		6/11/98			S					X			1	
EX1-7-11.5		6/10/98			S					X			1	
EX1-5-5.5		6/10/98			S					X			1	
EX1-3-5.5		6/9/98			S					X			1	
EX2-2-5.5		6/9/98			S					X			1	
EX2-1-5.5		6/9/98			S					X			1	
EX2-7-6		6/9/98			S					X			1	
EX2-8-6		6/9/98			S					X			1	
EX2-9-6.5		6/9/98			S					X			1	
EX2-23-6		6/11/98			S					X			1	
EX2-23-6.5		6/11/98			S					X			1	
EX2-10-15		6/9/98			S					X			1	
EX2-11-15		6/9/98			S					X			1	
														* Dates of sample collection received
														from Brian Kato on 6/19/98

Turnaround Request (circle one): Immediate 24-48hr 72-96hr Normal Mobile Lab Other:

Sample Condition: Chilled? Y / N Sealed? Y / N Comments:

Relinquished by: B.K. Kato	Relinquished by:	Relinquished by:	Relinquished by:
Company: BASELINE	Company:	Company:	Company:
Date/Time: 18 JUN 98 / 1845	Date/Time:	Date/Time:	Date/Time:
Received: [illegible]	Received:	Received:	Received:
Company: CEL	Company:	Company:	Company:
Date/Time: 6/18/98 / 18:50	Date/Time:	Date/Time:	Date/Time:

BASELINE ON-SITE ANALYSIS™
P. O. Box 2243
Huntington Beach, California 92647
Phone: (714) 396-5467
FAX: (714) 842-2947

Calscience Environmental Laboratories, Inc.

June 25, 1998

Mike Pitta
Alton Geoscience
25-A Technology Drive, Suite 200
Irvine, CA 92718

Subject: **Calscience Work Order Number: 98-06-0603**
Client Reference: Jalk Fee Property

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 06/22/98 and analyzed in accordance with the attached chain-of-custody.

The results in this analytical report are limited to the samples tested, and any reproduction of this report must be made in its entirety.

If you have any questions regarding this report, require sampling supplies or field services, or information on our analytical services, please feel free to call me at (714) 895-5494.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Mike Crisostomo
Project Manager

William H. Christensen
Deliverables Manager

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260A Volatile Organics

Client Name:	Alton Geoscience		
Project ID:	Jalk Fee Property		
Work Order Number:	98-06-0603		
QC Batch ID:	980623AE	Date Collected:	06/22/98
Matrix:	Solid	Date Received:	06/22/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8260A	Date Analyzed:	06/23/98

Client Sample Number: **EX2-26-15**
Lab Sample Number: 98-06-0603-1

Parameter	Result	RL	Qualifiers	Units
Acetone	ND	2500		ug/kg
Benzene	300	200		ug/kg
Bromobenzene	ND	200		ug/kg
Bromochloromethane	ND	200		ug/kg
Bromodichloromethane	ND	200		ug/kg
Bromoform	ND	200		ug/kg
Bromomethane	ND	200		ug/kg
2-Butanone	ND	2500		ug/kg
n-Butylbenzene	ND	200		ug/kg
sec-Butylbenzene	2300	200		ug/kg
tert-Butylbenzene	ND	200		ug/kg
Carbon Disulfide	ND	2500		ug/kg
Carbon Tetrachloride	ND	200		ug/kg
Chlorobenzene	ND	200		ug/kg
Chloroethane	ND	200		ug/kg
Chloroform	ND	200		ug/kg
Chloromethane	ND	200		ug/kg
2-Chlorotoluene	ND	200		ug/kg
4-Chlorotoluene	ND	200		ug/kg
Dibromochloromethane	ND	200		ug/kg
1,2-Dibromo-3-Chloropropane	ND	200		ug/kg
1,2-Dibromoethane	ND	200		ug/kg
Dibromomethane	ND	200		ug/kg
1,2-Dichlorobenzene	ND	200		ug/kg
1,3-Dichlorobenzene	ND	200		ug/kg
1,4-Dichlorobenzene	ND	200		ug/kg
Dichlorodifluoromethane	ND	200		ug/kg
1,1-Dichloroethane	ND	200		ug/kg
1,2-Dichloroethane	ND	200		ug/kg
1,1-Dichloroethene	ND	200		ug/kg
c-1,2-Dichloroethene	14700	200		ug/kg
t-1,2-Dichloroethene	ND	200		ug/kg
1,2-Dichloropropane	ND	200		ug/kg
1,3-Dichloropropane	ND	200		ug/kg

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260A Volatile Organics

Client Name:	Alton Geoscience		
Project ID:	Jalk Fee Property		
Work Order Number:	98-06-0603		
QC Batch ID:	980623AE	Date Collected:	06/22/98
Matrix:	Solid	Date Received:	06/22/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8260A	Date Analyzed:	06/23/98

Client Sample Number: EX2-26-15

Lab Sample Number: 98-06-0603-1

Parameter	Result	RL	Qualifiers	Units
2,2-Dichloropropane	ND	200		ug/kg
1,1-Dichloropropene	ND	200		ug/kg
c-1,3-Dichloropropene	ND	200		ug/kg
t-1,3-Dichloropropene	ND	200		ug/kg
Ethylbenzene	ND	200		ug/kg
2-Hexanone	ND	2500		ug/kg
Isopropylbenzene	1100	200		ug/kg
p-Isopropyltoluene	ND	200		ug/kg
Methylene Chloride	ND	2500		ug/kg
4-Methyl-2-Pentanone	ND	2500		ug/kg
Naphthalene	ND	2500		ug/kg
n-Propylbenzene	1600	200		ug/kg
Styrene	ND	200		ug/kg
1,1,1,2-Tetrachloroethane	ND	200		ug/kg
1,1,2,2-Tetrachloroethane	ND	200		ug/kg
Tetrachloroethene	308000	2000		ug/kg
Toluene	ND	200		ug/kg
1,2,3-Trichlorobenzene	ND	500		ug/kg
1,2,4-Trichlorobenzene	ND	200		ug/kg
1,1,1-Trichloroethane	ND	200		ug/kg
1,1,2-Trichloroethane	ND	200		ug/kg
Trichloroethene	28100	200		ug/kg
Trichlorofluoromethane	ND	2500		ug/kg
1,2,3-Trichloropropane	ND	200		ug/kg
1,2,4-Trimethylbenzene	200	200		ug/kg
1,3,5-Trimethylbenzene	ND	200		ug/kg
Vinyl Acetate	ND	2500		ug/kg
Vinyl Chloride	ND	200		ug/kg
p/m-Xylene	500	200		ug/kg
o-Xylene	ND	200		ug/kg
Methyl-tert-Butyl Ether	ND	200		ug/kg

Surrogates:	REC (%)	Control Limits	Qualifiers
Dibromofluoromethane	99	80-120	

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260A Volatile Organics

Client Name:	Alton Geoscience		
Project ID:	Jalk Fee Property		
Work Order Number:	98-06-0603		
QC Batch ID:	980623AE	Date Collected:	06/22/98
Matrix:	Solid	Date Received:	06/22/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8260A	Date Analyzed:	06/23/98

Client Sample Number: **EX2-26-15**

Lab Sample Number: 98-06-0603-1

Surrogates:	REC (%)	Control Limits	Qualifiers
Toluene-d8	107	81-117	
1,4-Bromofluorobenzene	95	74-121	

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260A Volatile Organics

Client Name:	Alton Geoscience		
Project ID:	Jalk Fee Property		
Work Order Number:	98-06-0603		
QC Batch ID:	980623AE	Date Collected:	N/A
Matrix:	Solid	Date Received:	N/A
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8260A	Date Analyzed:	06/23/98

Client Sample Number: **Method Blank**
Lab Sample Number: 095-01-025-732

Parameter	Result	RL	Qualifiers	Units
Acetone	ND	500		ug/kg
Benzene	ND	50		ug/kg
Bromobenzene	ND	50		ug/kg
Bromochloromethane	ND	50		ug/kg
Bromodichloromethane	ND	50		ug/kg
Bromoform	ND	50		ug/kg
Bromomethane	ND	50		ug/kg
2-Butanone	ND	500		ug/kg
n-Butylbenzene	ND	50		ug/kg
sec-Butylbenzene	ND	50		ug/kg
tert-Butylbenzene	ND	50		ug/kg
Carbon Disulfide	ND	500		ug/kg
Carbon Tetrachloride	ND	50		ug/kg
Chlorobenzene	ND	50		ug/kg
Chloroethane	ND	50		ug/kg
Chloroform	ND	50		ug/kg
Chloromethane	ND	50		ug/kg
2-Chlorotoluene	ND	50		ug/kg
4-Chlorotoluene	ND	50		ug/kg
Dibromochloromethane	ND	50		ug/kg
1,2-Dibromo-3-Chloropropane	ND	50		ug/kg
1,2-Dibromoethane	ND	50		ug/kg
Dibromomethane	ND	50		ug/kg
1,2-Dichlorobenzene	ND	50		ug/kg
1,3-Dichlorobenzene	ND	50		ug/kg
1,4-Dichlorobenzene	ND	50		ug/kg
Dichlorodifluoromethane	ND	50		ug/kg
1,1-Dichloroethane	ND	50		ug/kg
1,2-Dichloroethane	ND	50		ug/kg
1,1-Dichloroethene	ND	50		ug/kg
c-1,2-Dichloroethene	ND	50		ug/kg
t-1,2-Dichloroethene	ND	50		ug/kg
1,2-Dichloropropane	ND	50		ug/kg
1,3-Dichloropropane	ND	50		ug/kg

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260A Volatile Organics

Client Name:	Alton Geoscience		
Project ID:	Jalk Fee Property		
Work Order Number:	98-06-0603		
QC Batch ID:	980623AE	Date Collected:	N/A
Matrix:	Solid	Date Received:	N/A
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8260A	Date Analyzed:	06/23/98

Client Sample Number: **Method Blank**

Lab Sample Number: 095-01-025-732

Parameter	Result	RL	Qualifiers	Units
2,2-Dichloropropane	ND	50		ug/kg
1,1-Dichloropropene	ND	50		ug/kg
c-1,3-Dichloropropene	ND	50		ug/kg
t-1,3-Dichloropropene	ND	50		ug/kg
Ethylbenzene	ND	50		ug/kg
2-Hexanone	ND	500		ug/kg
Isopropylbenzene	ND	50		ug/kg
p-Isopropyltoluene	ND	50		ug/kg
Methylene Chloride	ND	500		ug/kg
4-Methyl-2-Pentanone	ND	500		ug/kg
Naphthalene	ND	500		ug/kg
n-Propylbenzene	ND	50		ug/kg
Styrene	ND	50		ug/kg
1,1,1,2-Tetrachloroethane	ND	50		ug/kg
1,1,2,2-Tetrachloroethane	ND	50		ug/kg
Tetrachloroethene	ND	50		ug/kg
Toluene	ND	50		ug/kg
1,2,3-Trichlorobenzene	ND	100		ug/kg
1,2,4-Trichlorobenzene	ND	50		ug/kg
1,1,1-Trichloroethane	ND	50		ug/kg
1,1,2-Trichloroethane	ND	50		ug/kg
Trichloroethene	ND	50		ug/kg
Trichlorofluoromethane	ND	500		ug/kg
1,2,3-Trichloropropane	ND	50		ug/kg
1,2,4-Trimethylbenzene	ND	50		ug/kg
1,3,5-Trimethylbenzene	ND	50		ug/kg
Vinyl Acetate	ND	500		ug/kg
Vinyl Chloride	ND	50		ug/kg
p/m-Xylene	ND	50		ug/kg
o-Xylene	ND	50		ug/kg
Methyl-tert-Butyl Ether	ND	50		ug/kg

Surrogates:	REC (%)	Control Limits	Qualifiers
Dibromofluoromethane	99	80-120	

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8260A Volatile Organics

Client Name:	Alton Geoscience		
Project ID:	Jalk Fee Property		
Work Order Number:	98-06-0603		
QC Batch ID:	980623AE	Date Collected:	N/A
Matrix:	Solid	Date Received:	N/A
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8260A	Date Analyzed:	06/23/98

Client Sample Number: **Method Blank**

Lab Sample Number: 095-01-025-732

Surrogates:	REC (%)	Control Limits	Qualifiers
Toluene-d8	100	81-117	
1,4-Bromofluorobenzene	99	74-121	

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

EPA 8260A Volatile Organics

MS/MSD Batch Number:	060580-18	Instrument:	GC/MS A
Matrix:	Solid	Date Extracted:	N/A
Method:	EPA 8260A	Date Analyzed:	06/23/98

Spiked Sample ID: 98-06-0580-18

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	105	101	72-127	4	0-25	
Carbon Tetrachloride	108	105	70-130	3	0-25	
Chlorobenzene	105	102	72-131	3	0-25	
1,2-Dichlorobenzene	104	102	70-130	2	0-25	
1,1-Dichloroethene	105	103	69-127	2	0-25	
Toluene	106	101	75-124	5	0-25	
Trichloroethene	121	126	60-137	4	0-25	
Vinyl Chloride	101	99	70-130	2	0-25	

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

EPA 8260A Volatile Organics

LCS Batch Number:	980623AE		
Lab File ID:	23JUN008		
Matrix:	Solid	Instrument:	GC/MS A
Method:	EPA 8260A	Date Analyzed:	06/23/98

LCS Sample Number: 095-01-025-732

Parameter	Conc Added	Conc Recovered	%Rec	%Rec CL	Qualifiers
Benzene	250	246	98	72-127	
Carbon Tetrachloride	250	248	99	70-130	
Chlorobenzene	250	251	100	72-131	
1,2-Dichlorobenzene	250	252	101	70-130	
1,1-Dichloroethene	250	248	99	69-127	
Toluene	250	252	101	75-124	
Trichloroethene	250	250	100	60-137	
Vinyl Chloride	250	227	91	79-118	

Calscience Environmental Laboratories, Inc.

GLOSSARY OF TERMS AND QUALIFIERS

Work Order Number: 98-06-0603

Qualifier	Definition
ND	Not detected at indicated reporting limit.

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SAMPLE RECEIPT FORM

Work Order Number:	98-06-0603	Date Received:	06/22/98
Delivery Container Type:	Cooler	Date Opened:	06/22/98
Client Project ID:	Jalk Fee Property	Opened By:	JP

Section A: Pass/Fail Criteria

		Comments
1. Chain of custody document(s) received with samples.	Yes	
2. Sample container label(s) consistent with custody papers.	Yes	
3. Sample container label(s) complete (ID, date, time, taken by).	Yes	
4. Sample container(s) intact and in good condition.	Yes	
5. If applicable, proper preservation noted on sample label(s).	NA	
6. Sufficient sample volume received for analyses requested.	Yes	
7. Correct containers used for analyses requested.	Yes	
8. If applicable, VOA vials free of headspace.	NA	

Section B: Additional Observations

1. Describe packing materials used in container.	NA	
2. Was container sealed with custody seals?	No	
3. Were all samples sealed in separate plastic bags?	No	
4. Measured temperature inside delivery container when opened.	25.0	°C
5. If delivery container shipped by third-party carrier, did container come with shipping slip, airbill, etc.?	No	

If YES, attach copy of shipping slip/airbill to the back of this form.

Section C: Additional Comments

CEL# 98-06-0603

CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.
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GARDEN GROVE, CA 92841-1432
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CHAIN OF CUSTODY RECORD

Date 6/22/98

Page ___ of ___

LABORATORY CLIENT: Mobil C.O. Alton Geoscience
ADDRESS: 25 A Technology Drive
CITY: Irvine STATE: CA ZIP: 92618
TEL: (949) 753-0101 FAX: (949) 753-0111 E-MAIL:

CLIENT PROJECT NAME / NUMBER: Salt Tec Property
PROJECT CONTACT: Michael Pitt
SAMPLER(S): (SIGNATURE) Michael Pitt

P.O. NO.:
QUOTE NO.:
LAB USE ONLY

TURNAROUND TIME
☐ SAME DAY ☐ 24 HR ☒ 48 HR ☐ 72 HRS ☐ 5 DAYS ☐ 10 DAYS

SPECIAL INSTRUCTIONS

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	LOCATION/DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g) (d) (o)	BTEX / MTBE (8021B)	HALOCARBONS (8021B)	VOCs (8260B)	SVOCs (8270C)	PEST / PCBs (8081A)	EDB / DBCP (504.1 or 8011)	CAC, T22 METALS (6010A)	ICP/MS METALS (6020)	PNAs (8910)	VOCs (TO-14)	CH_4 / TGNMO (25.1)	FIXED GASES (25.1 or D1946)
	EX2-26-15	Sidewall	6/22/98	MP					~~X~~ MP	X									

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Michael Pitt	[signature]	6/22/98	1515
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received for Laboratory by: (Signature)	Date:	Time:

All turnaround times are based on working hours of 8:30 a.m. - 5:30 p.m. M - F. Unless otherwise requested, all samples will be disposed of 30 days after receipt. 8/27/97 Revision

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CALIFORNIA ENVIRONMENTAL LABORATORIES, INC.

7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 • FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

Date 6/22/98

Page 1 of 1

LABORATORY CLIENT: Mobil c.o. Alton Geoscience

ADDRESS: 25 A Technology Drive

CITY: Irvine STATE: CA ZIP: 92618

TEL: (949) 753-0101 FAX: (949) 753-0111 E-MAIL:

CLIENT PROJECT NAME / NUMBER: Jake Fee Property

PROJECT CONTACT: Michael Pitta

SAMPLER(S): (SIGNATURE) Michael Pitta

P.O. NO.:

QUOTE NO.:

LAB USE ONLY: 0 6 - 6 0 3

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☒ 48 HR ☐ 72 HRS ☐ 5 DAYS ☐ 10 DAYS

SPECIAL INSTRUCTIONS

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	LOCATION/DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g) (d) (o)	BTEX / MTBE (8021B)	HALOCARBONS (8021B)	VOCs (8260B)	SVOCs (8270C)	PEST / PCBs (8081A)	EDB / DBCP (504.1 or 8011)	CAC; T22 METALS (6010A)	ICP/MS METALS (6020)	PNAs (8310)	VOCs (TO-14)	CH_4 / TGNMO (25.1)	FIXED GASES (25.1 or D1946)
	EX-2-26-15	sidewall			S					X									

Relinquished by: (Signature) Michael Pitta	Received by: (Signature)	Date: 6/22/98	Time: 1515
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received for Laboratory by: (Signature)	Date: 6/22/98	Time: 1955

All turnaround times are based on working hours of 8:30 a.m. - 5:30 p.m. M - F. Unless otherwise requested, all samples will be disposed of 30 days after receipt.

8/27/97 Revision

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Calscience
Environmental
Laboratories, Inc.

June 25, 1998

Mike Pitta
Alton Geoscience
25-A Technology Drive, Suite 200
Irvine, CA 92718

Subject: **Calscience Work Order Number: 98-06-0604**
Client Reference: Jalk Fee Property

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 06/22/98 and analyzed in accordance with the attached chain-of-custody.

The results in this analytical report are limited to the samples tested, and any reproduction of this report must be made in its entirety.

If you have any questions regarding this report, require sampling supplies or field services, or information on our analytical services, please feel free to call me at (714) 895-5494.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Mike Crisostomo
Project Manager

William H. Christensen
Deliverables Manager

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Alton Geoscience	Date Sampled:	06/17/98
25-A Technology Drive, Suite 200	Date Received:	06/22/98
Irvine, CA 92718	Date Extracted:	06/23/98
	Date Analyzed:	06/23/98
	Work Order No.:	98-06-0604
Attn: Mike Pitta	Method:	EPA 418.1
RE: Jalk Fee Property	Page 1 of 1	

All total recoverable petroleum hydrocarbon concentrations are reported in mg/kg (ppm).

Sample Number	Concentration	Reporting Limit
CSP3-1	2800	200
CSP3-2	387	40
CSP3-3	2270	200
CSP3-4	288	40
CSP3-5	925	50
CSP1-6	31	10
CSP1-7	53	10
CSP2-8	242	20
CSP2-9	3410	200
CSP2-10	902	100
Method Blank	ND	10

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL chilled, intact, and with chain-of-custody attached.

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Alton Geoscience		Date Sampled:	06/17/98
25-A Technology Drive, Suite 200		Date Received:	06/22/98
Irvine, CA 92718		Date Extracted:	P/T
		Date Analyzed:	06/23/98
		Work Order No.:	98-06-0604
Attn: Mike Pitta		Method:	EPA 8020A
RE: Jalk Fee Property		Page 1 of 4	

All concentrations are reported in µg/kg (ppb).

Analyte	Concentration	Reporting Limit
Sample Number: CSP3-1		
Benzene	ND	5.0
Toluene	5.9	5.0
Ethylbenzene	54	5.0
Total Xylenes	145	10.0
MTBE	ND	100
Sample Number: CSP3-2		
Benzene	ND	5.0
Toluene	ND	5.0
Ethylbenzene	ND	5.0
Total Xylenes	ND	10.0
MTBE	ND	100
Sample Number: CSP3-3		
Benzene	ND	5.0
Toluene	ND	5.0
Ethylbenzene	ND	5.0
Total Xylenes	ND	10.0
MTBE	ND	100

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Alton Geoscience		Date Sampled:	06/17/98
25-A Technology Drive, Suite 200		Date Received:	06/22/98
Irvine, CA 92718		Date Extracted:	P/T
		Date Analyzed:	06/23/98
		Work Order No.:	98-06-0604
Attn: Mike Pitta		Method:	EPA 8020A
RE: Jalk Fee Property		Page 2 of 4	

All concentrations are reported in µg/kg (ppb).

Analyte	Concentration	Reporting Limit
Sample Number: CSP3-4		
Benzene	ND	5.0
Toluene	ND	5.0
Ethylbenzene	ND	5.0
Total Xylenes	ND	10.0
MTBE	ND	100
Sample Number: CSP3-5		
Benzene	ND	5.0
Toluene	ND	5.0
Ethylbenzene	ND	5.0
Total Xylenes	ND	10.0
MTBE	ND	100
Sample Number: CSP1-6		
Benzene	ND	5.0
Toluene	5.3	5.0
Ethylbenzene	ND	5.0
Total Xylenes	ND	10.0
MTBE	ND	100

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Alton Geoscience		Date Sampled:	06/17/98
25-A Technology Drive, Suite 200		Date Received:	06/22/98
Irvine, CA 92718		Date Extracted:	P/T
		Date Analyzed:	06/23/98
		Work Order No.:	98-06-0604
Attn: Mike Pitta		Method:	EPA 8020A
RE: Jalk Fee Property		Page 3 of 4	

All concentrations are reported in µg/kg (ppb).

Analyte	Concentration	Reporting Limit
Sample Number: CSP1-7		
Benzene	ND	5.0
Toluene	5.9	5.0
Ethylbenzene	ND	5.0
Total Xylenes	ND	10.0
MTBE	ND	100
Sample Number: CSP2-8		
Benzene	ND	5.0
Toluene	ND	5.0
Ethylbenzene	ND	5.0
Total Xylenes	32.4	10.0
MTBE	ND	100
Sample Number: CSP2-9		
Benzene	ND	5.0
Toluene	ND	5.0
Ethylbenzene	ND	5.0
Total Xylenes	ND	10.0
MTBE	ND	100

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ANALYTICAL REPORT

Alton Geoscience		Date Sampled:	06/17/98
25-A Technology Drive, Suite 200		Date Received:	06/22/98
Irvine, CA 92718		Date Extracted:	P/T
		Date Analyzed:	06/23/98
		Work Order No.:	98-06-0604
Attn: Mike Pitta		Method:	EPA 8020A
RE: Jalk Fee Property		Page 4 of 4	

All concentrations are reported in µg/kg (ppb).

Analyte	Concentration	Reporting Limit
Sample Number: CSP2-10		
Benzene	ND	5.0
Toluene	ND	5.0
Ethylbenzene	ND	5.0
Total Xylenes	ND	10.0
MTBE	ND	100
Sample Number: Method Blank		
Benzene	ND	5.0
Toluene	ND	5.0
Ethylbenzene	ND	5.0
Total Xylenes	ND	10.0
MTBE	ND	100

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL chilled, intact, and with chain-of-custody attached.

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8021A Halogenated VOCs

Client Name:	Alton Geoscience		
Project ID:	Jalk Fee Property		
Work Order Number:	98-06-0604		
QC Batch ID:	980623AS	Date Collected:	06/17/98
Matrix:	Solid	Date Received:	06/22/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8021A	Date Analyzed:	06/23/98

Client Sample Number: **CSP3-1**
Lab Sample Number: 98-06-0604-1

Parameter	Result	RL	Qualifiers	Units
Dichlorodifluoromethane	ND	5.0		ug/kg
Chloromethane	ND	5.0		ug/kg
Vinyl Chloride	ND	5.0		ug/kg
Bromomethane	ND	5.0		ug/kg
Chloroethane	ND	5.0		ug/kg
Trichlorofluoromethane	ND	5.0		ug/kg
1,1-Dichloroethene	ND	5.0		ug/kg
Methylene Chloride	13.2	10		ug/kg
t-1,2-Dichloroethene	ND	5.0		ug/kg
1,1-Dichloroethane	ND	5.0		ug/kg
c-1,2-Dichloroethene	ND	5.0		ug/kg
Chloroform	ND	5.0		ug/kg
1,2-Dichloroethane	ND	5.0		ug/kg
1,1,1-Trichloroethane	ND	5.0		ug/kg
Carbon Tetrachloride	ND	5.0		ug/kg
1,2-Dichloropropane	ND	5.0		ug/kg
Trichloroethene	ND	5.0		ug/kg
Bromodichloromethane	ND	5.0		ug/kg
2-Chloroethyl Vinyl Ether	ND	5.0		ug/kg
c-1,3-Dichloropropene	ND	5.0		ug/kg
t-1,3-Dichloropropene	ND	5.0		ug/kg
1,1,2-Trichloroethane	ND	5.0		ug/kg
Dibromochloromethane	ND	5.0		ug/kg
Tetrachloroethene	ND	5.0		ug/kg
Chlorobenzene	ND	5.0		ug/kg
Bromoform	ND	5.0		ug/kg
1,1,2,2-Tetrachloroethane	ND	5.0		ug/kg
1,3-Dichlorobenzene	ND	5.0		ug/kg
1,4-Dichlorobenzene	ND	5.0		ug/kg
1,2-Dichlorobenzene	ND	5.0		ug/kg

Surrogates:	REC (%)	Control Limits	Qualifiers
2-Chloropropane	84	60-135	
1-Chloro-3-Fluorobenzene	86	60-135	

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8021A Halogenated VOCs

Client Name:	Alton Geoscience		
Project ID:	Jalk Fee Property		
Work Order Number:	98-06-0604		
QC Batch ID:	980623AS	Date Collected:	06/17/98
Matrix:	Solid	Date Received:	06/22/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8021A	Date Analyzed:	06/23/98

Client Sample Number: **CSP3-2**
Lab Sample Number: 98-06-0604-2

Parameter	Result	RL	Qualifiers	Units
Dichlorodifluoromethane	ND	5.0		ug/kg
Chloromethane	ND	5.0		ug/kg
Vinyl Chloride	ND	5.0		ug/kg
Bromomethane	ND	5.0		ug/kg
Chloroethane	ND	5.0		ug/kg
Trichlorofluoromethane	ND	5.0		ug/kg
1,1-Dichloroethene	ND	5.0		ug/kg
Methylene Chloride	11.1	10		ug/kg
t-1,2-Dichloroethene	ND	5.0		ug/kg
1,1-Dichloroethane	ND	5.0		ug/kg
c-1,2-Dichloroethene	ND	5.0		ug/kg
Chloroform	ND	5.0		ug/kg
1,2-Dichloroethane	ND	5.0		ug/kg
1,1,1-Trichloroethane	ND	5.0		ug/kg
Carbon Tetrachloride	ND	5.0		ug/kg
1,2-Dichloropropane	ND	5.0		ug/kg
Trichloroethene	ND	5.0		ug/kg
Bromodichloromethane	ND	5.0		ug/kg
2-Chloroethyl Vinyl Ether	ND	5.0		ug/kg
c-1,3-Dichloropropene	ND	5.0		ug/kg
t-1,3-Dichloropropene	ND	5.0		ug/kg
1,1,2-Trichloroethane	ND	5.0		ug/kg
Dibromochloromethane	ND	5.0		ug/kg
Tetrachloroethene	ND	5.0		ug/kg
Chlorobenzene	ND	5.0		ug/kg
Bromoform	ND	5.0		ug/kg
1,1,2,2-Tetrachloroethane	ND	5.0		ug/kg
1,3-Dichlorobenzene	ND	5.0		ug/kg
1,4-Dichlorobenzene	ND	5.0		ug/kg
1,2-Dichlorobenzene	ND	5.0		ug/kg

Surrogates:	REC (%)	Control Limits	Qualifiers
2-Chloropropane	81	60-135	
1-Chloro-3-Fluorobenzene	83	60-135	

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8021A Halogenated VOCs

Client Name:	Alton Geoscience		
Project ID:	Jalk Fee Property		
Work Order Number:	98-06-0604		
QC Batch ID:	980623AS	Date Collected:	06/17/98
Matrix:	Solid	Date Received:	06/22/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8021A	Date Analyzed:	06/23/98

Client Sample Number: **CSP3-3**
Lab Sample Number: 98-06-0604-3

Parameter	Result	RL	Qualifiers	Units
Dichlorodifluoromethane	ND	5.0		ug/kg
Chloromethane	ND	5.0		ug/kg
Vinyl Chloride	ND	5.0		ug/kg
Bromomethane	ND	5.0		ug/kg
Chloroethane	ND	5.0		ug/kg
Trichlorofluoromethane	ND	5.0		ug/kg
1,1-Dichloroethene	ND	5.0		ug/kg
Methylene Chloride	10.8	10		ug/kg
t-1,2-Dichloroethene	ND	5.0		ug/kg
1,1-Dichloroethane	ND	5.0		ug/kg
c-1,2-Dichloroethene	ND	5.0		ug/kg
Chloroform	ND	5.0		ug/kg
1,2-Dichloroethane	ND	5.0		ug/kg
1,1,1-Trichloroethane	ND	5.0		ug/kg
Carbon Tetrachloride	ND	5.0		ug/kg
1,2-Dichloropropane	ND	5.0		ug/kg
Trichloroethene	ND	5.0		ug/kg
Bromodichloromethane	ND	5.0		ug/kg
2-Chloroethyl Vinyl Ether	ND	5.0		ug/kg
c-1,3-Dichloropropene	ND	5.0		ug/kg
t-1,3-Dichloropropene	ND	5.0		ug/kg
1,1,2-Trichloroethane	ND	5.0		ug/kg
Dibromochloromethane	ND	5.0		ug/kg
Tetrachloroethene	ND	5.0		ug/kg
Chlorobenzene	ND	5.0		ug/kg
Bromoform	ND	5.0		ug/kg
1,1,2,2-Tetrachloroethane	ND	5.0		ug/kg
1,3-Dichlorobenzene	ND	5.0		ug/kg
1,4-Dichlorobenzene	ND	5.0		ug/kg
1,2-Dichlorobenzene	ND	5.0		ug/kg

Surrogates:	REC (%)	Control Limits	Qualifiers
2-Chloropropane	77	60-135	
1-Chloro-3-Fluorobenzene	78	60-135	

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8021A Halogenated VOCs

Client Name:	Alton Geoscience		
Project ID:	Jalk Fee Property		
Work Order Number:	98-06-0604		
QC Batch ID:	980623AS	Date Collected:	06/17/98
Matrix:	Solid	Date Received:	06/22/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8021A	Date Analyzed:	06/23/98

Client Sample Number: **CSP3-4**
Lab Sample Number: 98-06-0604-4

Parameter	Result	RL	Qualifiers	Units
Dichlorodifluoromethane	ND	5.0		ug/kg
Chloromethane	ND	5.0		ug/kg
Vinyl Chloride	ND	5.0		ug/kg
Bromomethane	ND	5.0		ug/kg
Chloroethane	ND	5.0		ug/kg
Trichlorofluoromethane	ND	5.0		ug/kg
1,1-Dichloroethene	ND	5.0		ug/kg
Methylene Chloride	13.0	10		ug/kg
t-1,2-Dichloroethene	ND	5.0		ug/kg
1,1-Dichloroethane	ND	5.0		ug/kg
c-1,2-Dichloroethene	ND	5.0		ug/kg
Chloroform	ND	5.0		ug/kg
1,2-Dichloroethane	ND	5.0		ug/kg
1,1,1-Trichloroethane	ND	5.0		ug/kg
Carbon Tetrachloride	ND	5.0		ug/kg
1,2-Dichloropropane	ND	5.0		ug/kg
Trichloroethene	ND	5.0		ug/kg
Bromodichloromethane	ND	5.0		ug/kg
2-Chloroethyl Vinyl Ether	ND	5.0		ug/kg
c-1,3-Dichloropropene	ND	5.0		ug/kg
t-1,3-Dichloropropene	ND	5.0		ug/kg
1,1,2-Trichloroethane	ND	5.0		ug/kg
Dibromochloromethane	ND	5.0		ug/kg
Tetrachloroethene	ND	5.0		ug/kg
Chlorobenzene	ND	5.0		ug/kg
Bromoform	ND	5.0		ug/kg
1,1,2,2-Tetrachloroethane	ND	5.0		ug/kg
1,3-Dichlorobenzene	ND	5.0		ug/kg
1,4-Dichlorobenzene	ND	5.0		ug/kg
1,2-Dichlorobenzene	ND	5.0		ug/kg

Surrogates:	REC (%)	Control Limits	Qualifiers
2-Chloropropane	77	60-135	
1-Chloro-3-Fluorobenzene	76	60-135	

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8021A Halogenated VOCs

Client Name:	Alton Geoscience		
Project ID:	Jalk Fee Property		
Work Order Number:	98-06-0604		
QC Batch ID:	980623AS	Date Collected:	06/17/98
Matrix:	Solid	Date Received:	06/22/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8021A	Date Analyzed:	06/23/98

Client Sample Number: **CSP3-5**
Lab Sample Number: 98-06-0604-5

Parameter	Result	RL	Qualifiers	Units
Dichlorodifluoromethane	ND	5.0		ug/kg
Chloromethane	ND	5.0		ug/kg
Vinyl Chloride	ND	5.0		ug/kg
Bromomethane	ND	5.0		ug/kg
Chloroethane	ND	5.0		ug/kg
Trichlorofluoromethane	ND	5.0		ug/kg
1,1-Dichloroethene	ND	5.0		ug/kg
Methylene Chloride	11.8	10		ug/kg
t-1,2-Dichloroethene	ND	5.0		ug/kg
1,1-Dichloroethane	ND	5.0		ug/kg
c-1,2-Dichloroethene	ND	5.0		ug/kg
Chloroform	ND	5.0		ug/kg
1,2-Dichloroethane	ND	5.0		ug/kg
1,1,1-Trichloroethane	ND	5.0		ug/kg
Carbon Tetrachloride	ND	5.0		ug/kg
1,2-Dichloropropane	ND	5.0		ug/kg
Trichloroethene	ND	5.0		ug/kg
Bromodichloromethane	ND	5.0		ug/kg
2-Chloroethyl Vinyl Ether	ND	5.0		ug/kg
c-1,3-Dichloropropene	ND	5.0		ug/kg
t-1,3-Dichloropropene	ND	5.0		ug/kg
1,1,2-Trichloroethane	ND	5.0		ug/kg
Dibromochloromethane	ND	5.0		ug/kg
Tetrachloroethene	ND	5.0		ug/kg
Chlorobenzene	ND	5.0		ug/kg
Bromoform	ND	5.0		ug/kg
1,1,2,2-Tetrachloroethane	ND	5.0		ug/kg
1,3-Dichlorobenzene	ND	5.0		ug/kg
1,4-Dichlorobenzene	ND	5.0		ug/kg
1,2-Dichlorobenzene	ND	5.0		ug/kg

Surrogates:	REC (%)	Control Limits	Qualifiers
2-Chloropropane	83	60-135	
1-Chloro-3-Fluorobenzene	78	60-135	

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8021A Halogenated VOCs

Client Name:	Alton Geoscience		
Project ID:	Jalk Fee Property		
Work Order Number:	98-06-0604		
QC Batch ID:	980623AS	Date Collected:	06/17/98
Matrix:	Solid	Date Received:	06/22/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8021A	Date Analyzed:	06/23/98

Client Sample Number: **CSP1-6**
Lab Sample Number: 98-06-0604-6

Parameter	Result	RL	Qualifiers	Units
Dichlorodifluoromethane	ND	5.0		ug/kg
Chloromethane	ND	5.0		ug/kg
Vinyl Chloride	ND	5.0		ug/kg
Bromomethane	ND	5.0		ug/kg
Chloroethane	ND	5.0		ug/kg
Trichlorofluoromethane	ND	5.0		ug/kg
1,1-Dichloroethene	ND	5.0		ug/kg
Methylene Chloride	12.0	10		ug/kg
t-1,2-Dichloroethene	ND	5.0		ug/kg
1,1-Dichloroethane	ND	5.0		ug/kg
c-1,2-Dichloroethene	ND	5.0		ug/kg
Chloroform	ND	5.0		ug/kg
1,2-Dichloroethane	ND	5.0		ug/kg
1,1,1-Trichloroethane	ND	5.0		ug/kg
Carbon Tetrachloride	ND	5.0		ug/kg
1,2-Dichloropropane	ND	5.0		ug/kg
Trichloroethene	ND	5.0		ug/kg
Bromodichloromethane	ND	5.0		ug/kg
2-Chloroethyl Vinyl Ether	ND	5.0		ug/kg
c-1,3-Dichloropropene	ND	5.0		ug/kg
t-1,3-Dichloropropene	ND	5.0		ug/kg
1,1,2-Trichloroethane	ND	5.0		ug/kg
Dibromochloromethane	ND	5.0		ug/kg
Tetrachloroethene	7.5	5.0		ug/kg
Chlorobenzene	ND	5.0		ug/kg
Bromoform	ND	5.0		ug/kg
1,1,2,2-Tetrachloroethane	ND	5.0		ug/kg
1,3-Dichlorobenzene	ND	5.0		ug/kg
1,4-Dichlorobenzene	ND	5.0		ug/kg
1,2-Dichlorobenzene	ND	5.0		ug/kg

Surrogates:	REC (%)	Control Limits	Qualifiers
2-Chloropropane	77	60-135	
1-Chloro-3-Fluorobenzene	87	60-135	

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT
EPA 8021A Halogenated VOCs

Client Name:	Alton Geoscience		
Project ID:	Jalk Fee Property		
Work Order Number:	98-06-0604		
QC Batch ID:	980623AS	Date Collected:	06/17/98
Matrix:	Solid	Date Received:	06/22/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8021A	Date Analyzed:	06/23/98

Client Sample Number: **CSP1-7**
Lab Sample Number: 98-06-0604-7

Parameter	Result	RL	Qualifiers	Units
Dichlorodifluoromethane	ND	5.0		ug/kg
Chloromethane	ND	5.0		ug/kg
Vinyl Chloride	ND	5.0		ug/kg
Bromomethane	ND	5.0		ug/kg
Chloroethane	ND	5.0		ug/kg
Trichlorofluoromethane	ND	5.0		ug/kg
1,1-Dichloroethene	ND	5.0		ug/kg
Methylene Chloride	11.6	10		ug/kg
t-1,2-Dichloroethene	ND	5.0		ug/kg
1,1-Dichloroethane	ND	5.0		ug/kg
c-1,2-Dichloroethene	ND	5.0		ug/kg
Chloroform	ND	5.0		ug/kg
1,2-Dichloroethane	ND	5.0		ug/kg
1,1,1-Trichloroethane	ND	5.0		ug/kg
Carbon Tetrachloride	ND	5.0		ug/kg
1,2-Dichloropropane	ND	5.0		ug/kg
Trichloroethene	ND	5.0		ug/kg
Bromodichloromethane	ND	5.0		ug/kg
2-Chloroethyl Vinyl Ether	ND	5.0		ug/kg
c-1,3-Dichloropropene	ND	5.0		ug/kg
t-1,3-Dichloropropene	ND	5.0		ug/kg
1,1,2-Trichloroethane	ND	5.0		ug/kg
Dibromochloromethane	ND	5.0		ug/kg
Tetrachloroethene	40.4	5.0		ug/kg
Chlorobenzene	ND	5.0		ug/kg
Bromoform	ND	5.0		ug/kg
1,1,2,2-Tetrachloroethane	ND	5.0		ug/kg
1,3-Dichlorobenzene	ND	5.0		ug/kg
1,4-Dichlorobenzene	ND	5.0		ug/kg
1,2-Dichlorobenzene	ND	5.0		ug/kg

Surrogates:	REC (%)	Control Limits	Qualifiers
2-Chloropropane	74	60-135	
1-Chloro-3-Fluorobenzene	84	60-135	

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8021A Halogenated VOCs

Client Name:	Alton Geoscience		
Project ID:	Jalk Fee Property		
Work Order Number:	98-06-0604		
QC Batch ID:	980623AS	Date Collected:	06/17/98
Matrix:	Solid	Date Received:	06/22/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8021A	Date Analyzed:	06/23/98

Client Sample Number: **CSP2-8**
Lab Sample Number: 98-06-0604-8

Parameter	Result	RL	Qualifiers	Units
Dichlorodifluoromethane	ND	5.0		ug/kg
Chloromethane	ND	5.0		ug/kg
Vinyl Chloride	ND	5.0		ug/kg
Bromomethane	ND	5.0		ug/kg
Chloroethane	ND	5.0		ug/kg
Trichlorofluoromethane	ND	5.0		ug/kg
1,1-Dichloroethene	ND	5.0		ug/kg
Methylene Chloride	12.3	10		ug/kg
t-1,2-Dichloroethene	ND	5.0		ug/kg
1,1-Dichloroethane	ND	5.0		ug/kg
c-1,2-Dichloroethene	ND	5.0		ug/kg
Chloroform	ND	5.0		ug/kg
1,2-Dichloroethane	ND	5.0		ug/kg
1,1,1-Trichloroethane	ND	5.0		ug/kg
Carbon Tetrachloride	ND	5.0		ug/kg
1,2-Dichloropropane	ND	5.0		ug/kg
Trichloroethene	ND	5.0		ug/kg
Bromodichloromethane	ND	5.0		ug/kg
2-Chloroethyl Vinyl Ether	ND	5.0		ug/kg
c-1,3-Dichloropropene	ND	5.0		ug/kg
t-1,3-Dichloropropene	ND	5.0		ug/kg
1,1,2-Trichloroethane	ND	5.0		ug/kg
Dibromochloromethane	ND	5.0		ug/kg
Tetrachloroethene	368	25		ug/kg
Chlorobenzene	ND	5.0		ug/kg
Bromoform	ND	5.0		ug/kg
1,1,2,2-Tetrachloroethane	ND	5.0		ug/kg
1,3-Dichlorobenzene	ND	5.0		ug/kg
1,4-Dichlorobenzene	ND	5.0		ug/kg
1,2-Dichlorobenzene	ND	5.0		ug/kg

Surrogates:	REC (%)	Control Limits	Qualifiers
2-Chloropropane	75	60-135	
1-Chloro-3-Fluorobenzene	81	60-135	

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT
EPA 8021A Halogenated VOCs

Client Name:	Alton Geoscience		
Project ID:	Jalk Fee Property		
Work Order Number:	98-06-0604		
QC Batch ID:	980623AS	Date Collected:	06/17/98
Matrix:	Solid	Date Received:	06/22/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8021A	Date Analyzed:	06/23/98

Client Sample Number: **CSP2-9**
Lab Sample Number: 98-06-0604-9

Parameter	Result	RL	Qualifiers	Units
Dichlorodifluoromethane	ND	5.0		ug/kg
Chloromethane	ND	5.0		ug/kg
Vinyl Chloride	ND	5.0		ug/kg
Bromomethane	ND	5.0		ug/kg
Chloroethane	ND	5.0		ug/kg
Trichlorofluoromethane	ND	5.0		ug/kg
1,1-Dichloroethene	ND	5.0		ug/kg
Methylene Chloride	12.3	10		ug/kg
t-1,2-Dichloroethene	ND	5.0		ug/kg
1,1-Dichloroethane	ND	5.0		ug/kg
c-1,2-Dichloroethene	ND	5.0		ug/kg
Chloroform	ND	5.0		ug/kg
1,2-Dichloroethane	ND	5.0		ug/kg
1,1,1-Trichloroethane	ND	5.0		ug/kg
Carbon Tetrachloride	ND	5.0		ug/kg
1,2-Dichloropropane	ND	5.0		ug/kg
Trichloroethene	ND	5.0		ug/kg
Bromodichloromethane	ND	5.0		ug/kg
2-Chloroethyl Vinyl Ether	ND	5.0		ug/kg
c-1,3-Dichloropropene	ND	5.0		ug/kg
t-1,3-Dichloropropene	ND	5.0		ug/kg
1,1,2-Trichloroethane	ND	5.0		ug/kg
Dibromochloromethane	ND	5.0		ug/kg
Tetrachloroethene	129	5.0		ug/kg
Chlorobenzene	ND	5.0		ug/kg
Bromoform	ND	5.0		ug/kg
1,1,2,2-Tetrachloroethane	ND	5.0		ug/kg
1,3-Dichlorobenzene	ND	5.0		ug/kg
1,4-Dichlorobenzene	ND	5.0		ug/kg
1,2-Dichlorobenzene	ND	5.0		ug/kg

Surrogates:	REC (%)	Control Limits	Qualifiers
2-Chloropropane	79	60-135	
1-Chloro-3-Fluorobenzene	97	60-135	

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8021A Halogenated VOCs

Client Name:	Alton Geoscience		
Project ID:	Jalk Fee Property		
Work Order Number:	98-06-0604		
QC Batch ID:	980623AS	Date Collected:	06/17/98
Matrix:	Solid	Date Received:	06/22/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8021A	Date Analyzed:	06/23/98

Client Sample Number: CSP2-10

Lab Sample Number: 98-06-0604-10

Parameter	Result	RL	Qualifiers	Units
Dichlorodifluoromethane	ND	5.0		ug/kg
Chloromethane	ND	5.0		ug/kg
Vinyl Chloride	ND	5.0		ug/kg
Bromomethane	ND	5.0		ug/kg
Chloroethane	ND	5.0		ug/kg
Trichlorofluoromethane	ND	5.0		ug/kg
1,1-Dichloroethene	ND	5.0		ug/kg
Methylene Chloride	12.4	10		ug/kg
t-1,2-Dichloroethene	ND	5.0		ug/kg
1,1-Dichloroethane	ND	5.0		ug/kg
c-1,2-Dichloroethene	ND	5.0		ug/kg
Chloroform	ND	5.0		ug/kg
1,2-Dichloroethane	ND	5.0		ug/kg
1,1,1-Trichloroethane	ND	5.0		ug/kg
Carbon Tetrachloride	ND	5.0		ug/kg
1,2-Dichloropropane	ND	5.0		ug/kg
Trichloroethene	ND	5.0		ug/kg
Bromodichloromethane	ND	5.0		ug/kg
2-Chloroethyl Vinyl Ether	ND	5.0		ug/kg
c-1,3-Dichloropropene	ND	5.0		ug/kg
t-1,3-Dichloropropene	ND	5.0		ug/kg
1,1,2-Trichloroethane	ND	5.0		ug/kg
Dibromochloromethane	ND	5.0		ug/kg
Tetrachloroethene	65.4	5.0		ug/kg
Chlorobenzene	ND	5.0		ug/kg
Bromoform	ND	5.0		ug/kg
1,1,2,2-Tetrachloroethane	ND	5.0		ug/kg
1,3-Dichlorobenzene	ND	5.0		ug/kg
1,4-Dichlorobenzene	ND	5.0		ug/kg
1,2-Dichlorobenzene	ND	5.0		ug/kg

Surrogates:	REC (%)	Control Limits	Qualifiers
2-Chloropropane	75	60-135	
1-Chloro-3-Fluorobenzene	84	60-135	

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT
EPA 8021A Halogenated VOCs

Client Name:	Alton Geoscience		
Project ID:	Jalk Fee Property		
Work Order Number:	98-06-0604		
QC Batch ID:	980623AS	Date Collected:	N/A
Matrix:	Solid	Date Received:	N/A
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8021A	Date Analyzed:	06/23/98

Client Sample Number: **Method Blank**
Lab Sample Number: 096-02-002-151

Parameter	Result	RL	Qualifiers	Units
Dichlorodifluoromethane	ND	5.0		ug/kg
Chloromethane	ND	5.0		ug/kg
Vinyl Chloride	ND	5.0		ug/kg
Bromomethane	ND	5.0		ug/kg
Chloroethane	ND	5.0		ug/kg
Trichlorofluoromethane	ND	5.0		ug/kg
1,1-Dichloroethene	ND	5.0		ug/kg
Methylene Chloride	ND	10		ug/kg
t-1,2-Dichloroethene	ND	5.0		ug/kg
1,1-Dichloroethane	ND	5.0		ug/kg
c-1,2-Dichloroethene	ND	5.0		ug/kg
Chloroform	ND	5.0		ug/kg
1,2-Dichloroethane	ND	5.0		ug/kg
1,1,1-Trichloroethane	ND	5.0		ug/kg
Carbon Tetrachloride	ND	5.0		ug/kg
1,2-Dichloropropane	ND	5.0		ug/kg
Trichloroethene	ND	5.0		ug/kg
Bromodichloromethane	ND	5.0		ug/kg
2-Chloroethyl Vinyl Ether	ND	5.0		ug/kg
c-1,3-Dichloropropene	ND	5.0		ug/kg
t-1,3-Dichloropropene	ND	5.0		ug/kg
1,1,2-Trichloroethane	ND	5.0		ug/kg
Dibromochloromethane	ND	5.0		ug/kg
Tetrachloroethene	ND	5.0		ug/kg
Chlorobenzene	ND	5.0		ug/kg
Bromoform	ND	5.0		ug/kg
1,1,2,2-Tetrachloroethane	ND	5.0		ug/kg
1,3-Dichlorobenzene	ND	5.0		ug/kg
1,4-Dichlorobenzene	ND	5.0		ug/kg
1,2-Dichlorobenzene	ND	5.0		ug/kg

Surrogates:	REC (%)	Control Limits	Qualifiers
2-Chloropropane	89	60-135	
1-Chloro-3-Fluorobenzene	94	60-135	

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Alton Geoscience	Date Sampled:	06/17/98
25-A Technology Drive, Suite 200	Date Received:	06/22/98
Irvine, CA 92718	Date Extracted:	06/23/98
	Date Analyzed:	06/23/98
	Work Order No.:	98-06-0604
Attn: Mike Pitta	Method:	EPA 8310
RE: Jalk Fee Property	Page 1 of 11	

All concentrations are reported in µg/kg (ppb).

Analyte	Concentration	Reporting Limit
Sample Number: CSP3-1		
Naphthalene	ND	50
Acenaphthylene	ND	50
Acenaphthene	ND	50
Fluorene	ND	50
Phenanthrene	80	50
Anthracene	ND	50
Fluoranthene	150	50
Pyrene	ND	50
Benzo (a) Anthracene	88	50
Chrysene	ND	50
Benzo (b) Fluoranthene	ND	50
Benzo (k) Fluoranthene	ND	50
Benzo (a) Pyrene	ND	50
Indeno (1,2,3-c,d) Pyrene	139	50
Dibenzo (a,h) Anthracene	69	50
Benzo (g,h,i) Perylene	297	50

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Alton Geoscience	Date Sampled:	06/17/98
25-A Technology Drive, Suite 200	Date Received:	06/22/98
Irvine, CA 92718	Date Extracted:	06/23/98
	Date Analyzed:	06/23/98
	Work Order No.:	98-06-0604
Attn: Mike Pitta	Method:	EPA 8310
RE: Jalk Fee Property	Page 2 of 11	

All concentrations are reported in µg/kg (ppb).

Analyte	Concentration	Reporting Limit
Sample Number: CSP3-2		
Naphthalene	ND	50
Acenaphthylene	ND	50
Acenaphthene	ND	50
Fluorene	ND	50
Phenanthrene	ND	50
Anthracene	ND	50
Fluoranthene	88	50
Pyrene	ND	50
Benzo (a) Anthracene	ND	50
Chrysene	ND	50
Benzo (b) Fluoranthene	ND	50
Benzo (k) Fluoranthene	ND	50
Benzo (a) Pyrene	ND	50
Indeno (1,2,3-c,d) Pyrene	59	50
Dibenzo (a,h) Anthracene	112	50
Benzo (g,h,i) Perylene	197	50

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Alton Geoscience	Date Sampled:	06/17/98
25-A Technology Drive, Suite 200	Date Received:	06/22/98
Irvine, CA 92718	Date Extracted:	06/23/98
	Date Analyzed:	06/23/98
	Work Order No.:	98-06-0604
Attn: Mike Pitta	Method:	EPA 8310
RE: Jalk Fee Property	Page 3 of 11	

All concentrations are reported in µg/kg (ppb).

Analyte	Concentration	Reporting Limit
Sample Number: CSP3-3		
Naphthalene	ND	50
Acenaphthylene	ND	50
Acenaphthene	ND	50
Fluorene	58	50
Phenanthrene	183	50
Anthracene	ND	50
Fluoranthene	371	50
Pyrene	ND	50
Benzo (a) Anthracene	63	50
Chrysene	71	50
Benzo (b) Fluoranthene	ND	50
Benzo (k) Fluoranthene	ND	50
Benzo (a) Pyrene	ND	50
Indeno (1,2,3-c,d) Pyrene	126	50
Dibenzo (a,h) Anthracene	151	50
Benzo (g,h,i) Perylene	341	50

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Alton Geoscience	Date Sampled:	06/17/98
25-A Technology Drive, Suite 200	Date Received:	06/22/98
Irvine, CA 92718	Date Extracted:	06/23/98
	Date Analyzed:	06/23/98
	Work Order No.:	98-06-0604
Attn: Mike Pitta	Method:	EPA 8310
RE: Jalk Fee Property	Page 4 of 11	

All concentrations are reported in µg/kg (ppb).

Analyte	Concentration	Reporting Limit
Sample Number: CSP3-4		
Naphthalene	ND	50
Acenaphthylene	ND	50
Acenaphthene	ND	50
Fluorene	ND	50
Phenanthrene	ND	50
Anthracene	ND	50
Fluoranthene	ND	50
Pyrene	ND	50
Benzo (a) Anthracene	ND	50
Chrysene	ND	50
Benzo (b) Fluoranthene	ND	50
Benzo (k) Fluoranthene	ND	50
Benzo (a) Pyrene	ND	50
Indeno (1,2,3-c,d) Pyrene	ND	50
Dibenzo (a,h) Anthracene	ND	50
Benzo (g,h,i) Perylene	ND	50

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Alton Geoscience	Date Sampled:	06/17/98
25-A Technology Drive, Suite 200	Date Received:	06/22/98
Irvine, CA 92718	Date Extracted:	06/23/98
	Date Analyzed:	06/24/98
	Work Order No.:	98-06-0604
Attn: Mike Pitta	Method:	EPA 8310
RE: Jalk Fee Property	Page 5 of 11	

All concentrations are reported in µg/kg (ppb).

Analyte	Concentration	Reporting Limit
Sample Number: CSP3-5		
Naphthalene	ND	50
Acenaphthylene	ND	50
Acenaphthene	ND	50
Fluorene	127	50
Phenanthrene	144	50
Anthracene	ND	50
Fluoranthene	367	50
Pyrene	ND	50
Benzo (a) Anthracene	65	50
Chrysene	65	50
Benzo (b) Fluoranthene	ND	50
Benzo (k) Fluoranthene	ND	50
Benzo (a) Pyrene	ND	50
Indeno (1,2,3-c,d) Pyrene	157	50
Dibenzo (a,h) Anthracene	138	50
Benzo (g,h,i) Perylene	370	50

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ANALYTICAL REPORT

Alton Geoscience	Date Sampled:	06/17/98
25-A Technology Drive, Suite 200	Date Received:	06/22/98
Irvine, CA 92718	Date Extracted:	06/23/98
	Date Analyzed:	06/24/98
	Work Order No.:	98-06-0604
Attn: Mike Pitta	Method:	EPA 8310
RE: Jalk Fee Property	Page 6 of 11	

All concentrations are reported in µg/kg (ppb).

Analyte	Concentration	Reporting Limit
Sample Number: CSP1-6		
Naphthalene	ND	50
Acenaphthylene	ND	50
Acenaphthene	ND	50
Fluorene	ND	50
Phenanthrene	ND	50
Anthracene	ND	50
Fluoranthene	ND	50
Pyrene	ND	50
Benzo (a) Anthracene	ND	50
Chrysene	ND	50
Benzo (b) Fluoranthene	ND	50
Benzo (k) Fluoranthene	ND	50
Benzo (a) Pyrene	ND	50
Indeno (1,2,3-c,d) Pyrene	57	50
Dibenzo (a,h) Anthracene	66	50
Benzo (g,h,i) Perylene	167	50

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ANALYTICAL REPORT

Alton Geoscience	Date Sampled:	06/17/98
25-A Technology Drive, Suite 200	Date Received:	06/22/98
Irvine, CA 92718	Date Extracted:	06/23/98
	Date Analyzed:	06/24/98
	Work Order No.:	98-06-0604
Attn: Mike Pitta	Method:	EPA 8310
RE: Jalk Fee Property	Page 7 of 11	

All concentrations are reported in µg/kg (ppb).

Analyte	Concentration	Reporting Limit
Sample Number: CSP1-7		
Naphthalene	ND	50
Acenaphthylene	ND	50
Acenaphthene	ND	50
Fluorene	ND	50
Phenanthrene	ND	50
Anthracene	ND	50
Fluoranthene	ND	50
Pyrene	ND	50
Benzo (a) Anthracene	ND	50
Chrysene	ND	50
Benzo (b) Fluoranthene	ND	50
Benzo (k) Fluoranthene	ND	50
Benzo (a) Pyrene	ND	50
Indeno (1,2,3-c,d) Pyrene	ND	50
Dibenzo (a,h) Anthracene	ND	50
Benzo (g,h,i) Perylene	ND	50

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ANALYTICAL REPORT

Alton Geoscience	Date Sampled:	06/17/98
25-A Technology Drive, Suite 200	Date Received:	06/22/98
Irvine, CA 92718	Date Extracted:	06/23/98
	Date Analyzed:	06/24/98
	Work Order No.:	98-06-0604
Attn: Mike Pitta	Method:	EPA 8310
RE: Jalk Fee Property	Page 8 of 11	

All concentrations are reported in µg/kg (ppb).

Analyte	Concentration	Reporting Limit
Sample Number: CSP2-8		
Naphthalene	ND	50
Acenaphthylene	ND	50
Acenaphthene	ND	50
Fluorene	ND	50
Phenanthrene	ND	50
Anthracene	ND	50
Fluoranthene	114	50
Pyrene	ND	50
Benzo (a) Anthracene	85	50
Chrysene	140	50
Benzo (b) Fluoranthene	ND	50
Benzo (k) Fluoranthene	ND	50
Benzo (a) Pyrene	ND	50
Indeno (1,2,3-c,d) Pyrene	129	50
Dibenzo (a,h) Anthracene	114	50
Benzo (g,h,i) Perylene	368	50

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ANALYTICAL REPORT

Alton Geoscience	Date Sampled:	06/17/98
25-A Technology Drive, Suite 200	Date Received:	06/22/98
Irvine, CA 92718	Date Extracted:	06/23/98
	Date Analyzed:	06/24/98
	Work Order No.:	98-06-0604
Attn: Mike Pitta	Method:	EPA 8310
RE: Jalk Fee Property	Page 9 of 11	

All concentrations are reported in µg/kg (ppb).

Analyte	Concentration	Reporting Limit
Sample Number: CSP2-9		
Naphthalene	ND	50
Acenaphthylene	ND	50
Acenaphthene	ND	50
Fluorene	ND	50
Phenanthrene	ND	50
Anthracene	ND	50
Fluoranthene	77	50
Pyrene	ND	50
Benzo (a) Anthracene	ND	50
Chrysene	ND	50
Benzo (b) Fluoranthene	ND	50
Benzo (k) Fluoranthene	ND	50
Benzo (a) Pyrene	ND	50
Indeno (1,2,3-c,d) Pyrene	72	50
Dibenzo (a,h) Anthracene	58	50
Benzo (g,h,i) Perylene	219	50

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ANALYTICAL REPORT

Alton Geoscience	Date Sampled:	06/17/98
25-A Technology Drive, Suite 200	Date Received:	06/22/98
Irvine, CA 92718	Date Extracted:	06/23/98
	Date Analyzed:	06/24/98
	Work Order No.:	98-06-0604
Attn: Mike Pitta	Method:	EPA 8310
RE: Jalk Fee Property	Page 10 of 11	

All concentrations are reported in µg/kg (ppb).

Analyte	Concentration	Reporting Limit
Sample Number: CSP2-10		
Naphthalene	ND	50
Acenaphthylene	ND	50
Acenaphthene	ND	50
Fluorene	ND	50
Phenanthrene	ND	50
Anthracene	ND	50
Fluoranthene	ND	50
Pyrene	ND	50
Benzo (a) Anthracene	ND	50
Chrysene	ND	50
Benzo (b) Fluoranthene	ND	50
Benzo (k) Fluoranthene	ND	50
Benzo (a) Pyrene	ND	50
Indeno (1,2,3-c,d) Pyrene	ND	50
Dibenzo (a,h) Anthracene	54	50
Benzo (g,h,i) Perylene	163	50

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ANALYTICAL REPORT

Alton Geoscience	Date Sampled:	06/17/98
25-A Technology Drive, Suite 200	Date Received:	06/22/98
Irvine, CA 92718	Date Extracted:	06/23/98
	Date Analyzed:	06/23/98
	Work Order No.:	98-06-0604
Attn: Mike Pitta	Method:	EPA 8310
RE: Jalk Fee Property	Page 11 of 11	

All concentrations are reported in µg/kg (ppb).

Analyte	Concentration	Reporting Limit
Sample Number: Method Blank		
Naphthalene	ND	50
Acenaphthylene	ND	50
Acenaphthene	ND	50
Fluorene	ND	50
Phenanthrene	ND	50
Anthracene	ND	50
Fluoranthene	ND	50
Pyrene	ND	50
Benzo (a) Anthracene	ND	50
Chrysene	ND	50
Benzo (b) Fluoranthene	ND	50
Benzo (k) Fluoranthene	ND	50
Benzo (a) Pyrene	ND	50
Indeno (1,2,3-c,d) Pyrene	ND	50
Dibenzo (a,h) Anthracene	ND	50
Benzo (g,h,i) Perylene	ND	50

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL chilled, intact, and with chain-of-custody attached.

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ANALYTICAL REPORT

Alton Geoscience	Date Sampled:	06/17/98
25-A Technology Drive, Suite 200	Date Received:	06/22/98
Irvine, CA 92718	Date Digested:	06/23/98
	Date Analyzed:	06/24/98
	Work Order No.:	98-06-0604
Attn: Mike Pitta		
RE: Jalk Fee Property	Page 1 of 12	

All concentrations are reported in mg/kg (ppm). Analyses for Title 22 metals were conducted on a total digestion.

Sample Number: CSP3-1

Analyte	Method	Concentration	Reporting Limit
Antimony	EPA 6010A	ND	0.75
Arsenic	EPA 6010A	0.82	0.75
Barium	EPA 6010A	117	0.50
Beryllium	EPA 6010A	0.44	0.25
Cadmium	EPA 6010A	2.12	0.50
Chromium	EPA 6010A	21.4	0.25
Cobalt	EPA 6010A	9.56	0.25
Copper	EPA 6010A	23.5	0.25
Lead	EPA 6010A	7.35	0.50
Mercury	EPA 7471A	ND	0.25
Molybdenum	EPA 6010A	ND	0.25
Nickel	EPA 6010A	16.3	0.25
Selenium	EPA 6010A	ND	0.75
Silver	EPA 6010A	ND	0.50
Thallium	EPA 6010A	ND	0.75
Vanadium	EPA 6010A	36.9	0.25
Zinc	EPA 6010A	49.0	1.00

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ANALYTICAL REPORT

Alton Geoscience	Date Sampled:	06/17/98
25-A Technology Drive, Suite 200	Date Received:	06/22/98
Irvine, CA 92718	Date Digested:	06/23/98
	Date Analyzed:	06/24/98
	Work Order No.:	98-06-0604
Attn: Mike Pitta		
RE: Jalk Fee Property	Page 2 of 12	

All concentrations are reported in mg/kg (ppm). Analyses for Title 22 metals were conducted on a total digestion.

Sample Number: CSP3-2

Analyte	Method	Concentration	Reporting Limit
Antimony	EPA 6010A	ND	0.75
Arsenic	EPA 6010A	1.66	0.75
Barium	EPA 6010A	103	0.50
Beryllium	EPA 6010A	0.46	0.25
Cadmium	EPA 6010A	2.17	0.50
Chromium	EPA 6010A	21.3	0.25
Cobalt	EPA 6010A	9.58	0.25
Copper	EPA 6010A	22.2	0.25
Lead	EPA 6010A	5.36	0.50
Mercury	EPA 7471A	ND	0.25
Molybdenum	EPA 6010A	ND	0.25
Nickel	EPA 6010A	16.1	0.25
Selenium	EPA 6010A	ND	0.75
Silver	EPA 6010A	ND	0.50
Thallium	EPA 6010A	ND	0.75
Vanadium	EPA 6010A	38.4	0.25
Zinc	EPA 6010A	46.0	1.00

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ANALYTICAL REPORT

Alton Geoscience	Date Sampled:	06/17/98
25-A Technology Drive, Suite 200	Date Received:	06/22/98
Irvine, CA 92718	Date Digested:	06/23/98
	Date Analyzed:	06/24/98
	Work Order No.:	98-06-0604
Attn: Mike Pitta		
RE: Jalk Fee Property	Page 3 of 12	

All concentrations are reported in mg/kg (ppm). Analyses for Title 22 metals were conducted on a total digestion.

Sample Number: CSP3-3

Analyte	Method	Concentration	Reporting Limit
Antimony	EPA 6010A	ND	0.75
Arsenic	EPA 6010A	0.77	0.75
Barium	EPA 6010A	120	0.50
Beryllium	EPA 6010A	0.44	0.25
Cadmium	EPA 6010A	2.17	0.50
Chromium	EPA 6010A	22.7	0.25
Cobalt	EPA 6010A	10.1	0.25
Copper	EPA 6010A	29.1	0.25
Lead	EPA 6010A	9.50	0.50
Mercury	EPA 7471A	ND	0.25
Molybdenum	EPA 6010A	ND	0.25
Nickel	EPA 6010A	16.6	0.25
Selenium	EPA 6010A	ND	0.75
Silver	EPA 6010A	ND	0.50
Thallium	EPA 6010A	ND	0.75
Vanadium	EPA 6010A	38.4	0.25
Zinc	EPA 6010A	52.8	1.00

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ANALYTICAL REPORT

Alton Geoscience	Date Sampled:	06/17/98
25-A Technology Drive, Suite 200	Date Received:	06/22/98
Irvine, CA 92718	Date Digested:	06/23/98
	Date Analyzed:	06/24/98
	Work Order No.:	98-06-0604
Attn: Mike Pitta		
RE: Jalk Fee Property	Page 4 of 12	

All concentrations are reported in mg/kg (ppm). Analyses for Title 22 metals were conducted on a total digestion.

Sample Number: CSP3-4

Analyte	Method	Concentration	Reporting Limit
Antimony	EPA 6010A	ND	0.75
Arsenic	EPA 6010A	ND	0.75
Barium	EPA 6010A	106	0.50
Beryllium	EPA 6010A	0.40	0.25
Cadmium	EPA 6010A	1.99	0.50
Chromium	EPA 6010A	19.2	0.25
Cobalt	EPA 6010A	9.13	0.25
Copper	EPA 6010A	24.0	0.25
Lead	EPA 6010A	10.8	0.50
Mercury	EPA 7471A	ND	0.25
Molybdenum	EPA 6010A	ND	0.25
Nickel	EPA 6010A	14.3	0.25
Selenium	EPA 6010A	ND	0.75
Silver	EPA 6010A	ND	0.50
Thallium	EPA 6010A	ND	0.75
Vanadium	EPA 6010A	35.4	0.25
Zinc	EPA 6010A	55.8	1.00

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ANALYTICAL REPORT

Alton Geoscience		Date Sampled:	06/17/98
25-A Technology Drive, Suite 200		Date Received:	06/22/98
Irvine, CA 92718		Date Digested:	06/23/98
		Date Analyzed:	06/24/98
		Work Order No.:	98-06-0604
Attn: Mike Pitta			
RE: Jalk Fee Property		Page 5 of 12	

All concentrations are reported in mg/kg (ppm). Analyses for Title 22 metals were conducted on a total digestion.

Sample Number: CSP3-5

Analyte	Method	Concentration	Reporting Limit
Antimony	EPA 6010A	ND	0.75
Arsenic	EPA 6010A	ND	0.75
Barium	EPA 6010A	113	0.50
Beryllium	EPA 6010A	0.43	0.25
Cadmium	EPA 6010A	2.15	0.50
Chromium	EPA 6010A	21.2	0.25
Cobalt	EPA 6010A	10.3	0.25
Copper	EPA 6010A	19.0	0.25
Lead	EPA 6010A	6.03	0.50
Mercury	EPA 7471A	ND	0.25
Molybdenum	EPA 6010A	ND	0.25
Nickel	EPA 6010A	15.7	0.25
Selenium	EPA 6010A	ND	0.75
Silver	EPA 6010A	ND	0.50
Thallium	EPA 6010A	ND	0.75
Vanadium	EPA 6010A	38.7	0.25
Zinc	EPA 6010A	50.3	1.00

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ANALYTICAL REPORT

Alton Geoscience	Date Sampled:	06/17/98
25-A Technology Drive, Suite 200	Date Received:	06/22/98
Irvine, CA 92718	Date Digested:	06/23/98
	Date Analyzed:	06/24/98
	Work Order No.:	98-06-0604
Attn: Mike Pitta		
RE: Jalk Fee Property	Page 6 of 12	

All concentrations are reported in mg/kg (ppm). Analyses for Title 22 metals were conducted on a total digestion.

Sample Number: CSP1-6

Analyte	Method	Concentration	Reporting Limit
Antimony	EPA 6010A	ND	0.75
Arsenic	EPA 6010A	2.35	0.75
Barium	EPA 6010A	130	0.50
Beryllium	EPA 6010A	0.48	0.25
Cadmium	EPA 6010A	2.35	0.50
Chromium	EPA 6010A	24.7	0.25
Cobalt	EPA 6010A	10.5	0.25
Copper	EPA 6010A	25.9	0.25
Lead	EPA 6010A	6.07	0.50
Mercury	EPA 7471A	ND	0.25
Molybdenum	EPA 6010A	ND	0.25
Nickel	EPA 6010A	17.6	0.25
Selenium	EPA 6010A	ND	0.75
Silver	EPA 6010A	ND	0.50
Thallium	EPA 6010A	ND	0.75
Vanadium	EPA 6010A	40.7	0.25
Zinc	EPA 6010A	50.0	1.00

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ANALYTICAL REPORT

Alton Geoscience	Date Sampled:	06/17/98
25-A Technology Drive, Suite 200	Date Received:	06/22/98
Irvine, CA 92718	Date Digested:	06/23/98
	Date Analyzed:	06/24/98
	Work Order No.:	98-06-0604
Attn: Mike Pitta		
RE: Jalk Fee Property	Page 7 of 12	

All concentrations are reported in mg/kg (ppm). Analyses for Title 22 metals were conducted on a total digestion.

Sample Number: CSP1-7

Analyte	Method	Concentration	Reporting Limit
Antimony	EPA 6010A	ND	0.75
Arsenic	EPA 6010A	ND	0.75
Barium	EPA 6010A	112	0.50
Beryllium	EPA 6010A	0.40	0.25
Cadmium	EPA 6010A	1.94	0.50
Chromium	EPA 6010A	19.9	0.25
Cobalt	EPA 6010A	8.86	0.25
Copper	EPA 6010A	19.7	0.25
Lead	EPA 6010A	9.11	0.50
Mercury	EPA 7471A	ND	0.25
Molybdenum	EPA 6010A	ND	0.25
Nickel	EPA 6010A	14.2	0.25
Selenium	EPA 6010A	ND	0.75
Silver	EPA 6010A	ND	0.50
Thallium	EPA 6010A	ND	0.75
Vanadium	EPA 6010A	34.0	0.25
Zinc	EPA 6010A	53.9	1.00

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ANALYTICAL REPORT

Alton Geoscience	Date Sampled:	06/17/98
25-A Technology Drive, Suite 200	Date Received:	06/22/98
Irvine, CA 92718	Date Digested:	06/23/98
	Date Analyzed:	06/24/98
	Work Order No.:	98-06-0604
Attn: Mike Pitta		
RE: Jalk Fee Property	Page 8 of 12	

All concentrations are reported in mg/kg (ppm). Analyses for Title 22 metals were conducted on a total digestion.

Sample Number: CSP2-8

Analyte	Method	Concentration	Reporting Limit
Antimony	EPA 6010A	ND	0.75
Arsenic	EPA 6010A	3.12	0.75
Barium	EPA 6010A	103	0.50
Beryllium	EPA 6010A	0.46	0.25
Cadmium	EPA 6010A	2.23	0.50
Chromium	EPA 6010A	20.8	0.25
Cobalt	EPA 6010A	9.53	0.25
Copper	EPA 6010A	24.0	0.25
Lead	EPA 6010A	9.52	0.50
Mercury	EPA 7471A	0.55	0.25
Molybdenum	EPA 6010A	ND	0.25
Nickel	EPA 6010A	15.3	0.25
Selenium	EPA 6010A	ND	0.75
Silver	EPA 6010A	ND	0.50
Thallium	EPA 6010A	ND	0.75
Vanadium	EPA 6010A	35.9	0.25
Zinc	EPA 6010A	64.7	1.00

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ANALYTICAL REPORT

Alton Geoscience	Date Sampled:	06/17/98
25-A Technology Drive, Suite 200	Date Received:	06/22/98
Irvine, CA 92718	Date Digested:	06/23/98
	Date Analyzed:	06/24/98
	Work Order No.:	98-06-0604
Attn: Mike Pitta		
RE: Jalk Fee Property	Page 9 of 12	

All concentrations are reported in mg/kg (ppm). Analyses for Title 22 metals were conducted on a total digestion.

Sample Number: CSP2-9

Analyte	Method	Concentration	Reporting Limit
Antimony	EPA 6010A	ND	0.75
Arsenic	EPA 6010A	ND	0.75
Barium	EPA 6010A	92.9	0.50
Beryllium	EPA 6010A	0.37	0.25
Cadmium	EPA 6010A	1.84	0.50
Chromium	EPA 6010A	17.7	0.25
Cobalt	EPA 6010A	7.92	0.25
Copper	EPA 6010A	18.1	0.25
Lead	EPA 6010A	7.71	0.50
Mercury	EPA 7471A	ND	0.25
Molybdenum	EPA 6010A	ND	0.25
Nickel	EPA 6010A	13.1	0.25
Selenium	EPA 6010A	ND	0.75
Silver	EPA 6010A	ND	0.50
Thallium	EPA 6010A	ND	0.75
Vanadium	EPA 6010A	31.4	0.25
Zinc	EPA 6010A	46.4	1.00

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ANALYTICAL REPORT

Alton Geoscience	Date Sampled:	06/17/98
25-A Technology Drive, Suite 200	Date Received:	06/22/98
Irvine, CA 92718	Date Digested:	06/23/98
	Date Analyzed:	06/24/98
	Work Order No.:	98-06-0604
Attn: Mike Pitta		
RE: Jalk Fee Property	Page 10 of 12	

All concentrations are reported in mg/kg (ppm). Analyses for Title 22 metals were conducted on a total digestion.

Sample Number: CSP2-10

Analyte	Method	Concentration	Reporting Limit
Antimony	EPA 6010A	ND	0.75
Arsenic	EPA 6010A	5.25	0.75
Barium	EPA 6010A	304	0.50
Beryllium	EPA 6010A	0.36	0.25
Cadmium	EPA 6010A	2.19	0.50
Chromium	EPA 6010A	25.8	0.25
Cobalt	EPA 6010A	7.88	0.25
Copper	EPA 6010A	32.9	0.25
Lead	EPA 6010A	41.3	0.50
Mercury	EPA 7471A	ND	0.25
Molybdenum	EPA 6010A	0.40	0.25
Nickel	EPA 6010A	17.6	0.25
Selenium	EPA 6010A	ND	0.75
Silver	EPA 6010A	ND	0.50
Thallium	EPA 6010A	ND	0.75
Vanadium	EPA 6010A	32.2	0.25
Zinc	EPA 6010A	104	1.00

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ANALYTICAL REPORT

Alton Geoscience		Date Sampled:	06/17/98
25-A Technology Drive, Suite 200		Date Received:	06/22/98
Irvine, CA 92718		Date Digested:	06/23/98
		Date Analyzed:	06/24/98
		Work Order No.:	98-06-0604
Attn: Mike Pitta			
RE: Jalk Fee Property		Page 11 of 12	

All concentrations are reported in mg/kg (ppm). Analyses for Title 22 metals were conducted on a total digestion.

Sample Number: Method Blank

Analyte	Method	Concentration	Reporting Limit
Antimony	EPA 6010A	ND	0.75
Arsenic	EPA 6010A	ND	0.75
Barium	EPA 6010A	ND	0.50
Beryllium	EPA 6010A	ND	0.25
Cadmium	EPA 6010A	ND	0.50
Chromium	EPA 6010A	ND	0.25
Cobalt	EPA 6010A	ND	0.25
Copper	EPA 6010A	ND	0.25
Lead	EPA 6010A	ND	0.50
Mercury	EPA 7471A	ND	0.25
Molybdenum	EPA 6010A	ND	0.25
Nickel	EPA 6010A	ND	0.25
Selenium	EPA 6010A	ND	0.75
Silver	EPA 6010A	ND	0.50
Thallium	EPA 6010A	ND	0.75
Vanadium	EPA 6010A	ND	0.25
Zinc	EPA 6010A	1.12	1.00

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QUALITY ASSURANCE SUMMARY

Method EPA 418.1

Alton Geoscience | Work Order No.: 98-06-0604
Page 1 of 1 | Date Analyzed: 06/23/98

Matrix Spike/Matrix Spike Duplicate

Sample Spiked: 98-06-0599-1

Analyte	MS%REC	MSD%REC	Control Limits	%RPD	Control Limits
Total Recoverable Petroleum Hydrocarbons	95	100	55 - 135	5	0 - 30

Laboratory Control Sample

Analyte	Conc. Added	Conc. Rec.	%REC	Control Limits
Total Recoverable Petroleum Hydrocarbons	200	190	95	70 - 130

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QUALITY ASSURANCE SUMMARY

Method EPA 8020A

Alton Geoscience		Work Order No.:	98-06-0604
Page 1 of 1		Date Analyzed:	06/23/98

Matrix Spike/Matrix Spike Duplicate

Sample Spiked: CSP3-2

Analyte	MS%REC	MSD%REC	Control Limits	%RPD	Control Limits
Benzene	101	104	39 - 150	3	0 - 25
Toluene	101	104	46 - 148	3	0 - 25
Ethylbenzene	100	104	32 - 160	4	0 - 25
m,p-Xylenes	100	104	45 - 150	4	0 - 25
o-Xylene	100	104	45 - 150	4	0 - 25

Laboratory Control Sample

Analyte	Conc. Added	Conc. Rec.	%REC	Control Limits
Benzene	20.0	18.4	92	39 - 150
Toluene	20.0	19.4	97	46 - 148
Ethylbenzene	20.0	20.0	100	32 - 160
m,p-Xylenes	40.0	40.2	100	45 - 150
o-Xylene	20.0	19.9	99	45 - 150

Surrogate Recoveries (in %)

Sample Number	S1
CSP3-1	113
CSP3-2	112
CSP3-3	119
CSP3-4	91
CSP3-5	105
CSP1-6	104
CSP1-7	107
CSP2-8	111
CSP2-9	107
CSP2-10	107
Method Blank	112

Surrogate Compound	%REC Acceptable Limits
S1 > 1,4-Bromofluorobenzene	65 - 140

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Quality Control - Spike/Spike Duplicate

EPA 8021A Halogenated VOCs

MS/MSD Batch Number:	060604-1	Instrument:	GC 4
Matrix:	Solid	Date Extracted:	N/A
Method:	EPA 8021A	Date Analyzed:	06/23/98

Spiked Sample ID: CSP3-1

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	90	86	28-163	5	0-25	
Carbon Tetrachloride	88	83	43-143	6	0-25	
1,2-Dichloropropane	95	90	44-156	5	0-25	
Trichloroethene	92	89	35-146	3	0-25	
Chlorobenzene	89	83	38-150	7	0-25	
1,2-Dichlorobenzene	72	67	0-208	7	0-25	

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Quality Control - Laboratory Control Sample

EPA 8021A Halogenated VOCs

LCS Batch Number:	980623AS		
Lab File ID:	JUN23R21		
Matrix:	Solid	Instrument:	GC 4
Method:	EPA 8021A	Date Analyzed:	06/23/98

LCS Sample Number: 096-02-002-151

Parameter	Conc Added	Conc Recovered	%Rec	%Rec CL	Qualifiers
Vinyl Chloride	250	236	94	28-163	
Carbon Tetrachloride	250	252	101	43-143	
1,2-Dichloropropane	250	254	101	44-156	
Trichloroethene	250	253	101	35-146	
Chlorobenzene	250	258	103	38-150	
1,2-Dichlorobenzene	250	260	104	0-208	

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QUALITY ASSURANCE SUMMARY

Method EPA 8310

Alton Geoscience | Work Order No.: 98-06-0604
Page 1 of 1 | Date Analyzed: 06/24/98

Matrix Spike/Matrix Spike Duplicate

Sample Spiked: CSP3-2

Analyte	MS%REC	MSD%REC	Control Limits	%RPD	Control Limits
Benzo (b) Fluoranthene	93	88	40 - 160	6	0 - 20
Benzo (k) Fluoranthene	134	124	40 - 160	8	0 - 20
Benzo (a) Pyrene	105	95	40 - 160	10	0 - 20
Indeno (1,2,3-c,d) Pyrene	62	56	40 - 160	10	0 - 20
Dibenzo (a,h) Anthracene	79	81	40 - 160	2	0 - 20
Benzo (g,h,i) Perylene	63	54	40 - 160	13	0 - 20

Surrogate Recoveries (in %)

Sample Number	S1
CSP3-1	58
CSP3-2	44
CSP3-3	83
CSP3-4	70
CSP3-5	50
CSP1-6	84
CSP1-7	89
CSP2-8	64
CSP2-9	40
CSP2-10	58
Method Blank	97

Surrogate Compound	%REC Acceptable Limits
S1 > Decafluorobiphenyl	22 - 153

Calscience Environmental Laboratories, Inc.

QUALITY ASSURANCE SUMMARY

ICP / GF Metals (Solids)

Alton Geoscience — Work Order No.: 98-06-0604

 — Date Analyzed: 06/24/98

Matrix Spike/Matrix Spike Duplicate

Sample Spiked: CSP2-8

Analyte	Method	MS%REC	MSD%REC	Control Limits	%RPD	Control Limits
Antimony	EPA 6010A	31[Note 1]	32[Note 1]	80 - 120	1	0 - 20
Arsenic	EPA 6010A	95	97	80 - 120	2	0 - 20
Barium	EPA 6010A	117	121[Note 1]	80 - 120	1	0 - 20
Beryllium	EPA 6010A	95	96	80 - 120	1	0 - 20
Cadmium	EPA 6010A	96	97	80 - 120	1	0 - 20
Chromium	EPA 6010A	96	98	80 - 120	1	0 - 20
Cobalt	EPA 6010A	96	97	80 - 120	2	0 - 20
Copper	EPA 6010A	107	109	80 - 120	1	0 - 20
Lead	EPA 6010A	98	99	80 - 120	1	0 - 20
Molybdenum	EPA 6010A	92	93	80 - 120	2	0 - 20
Nickel	EPA 6010A	98	100	80 - 120	2	0 - 20
Selenium	EPA 6010A	74[Note 1]	76[Note 1]	80 - 120	2	0 - 20
Silver	EPA 6010A	95	96	80 - 120	1	0 - 20
Thallium	EPA 6010A	59[Note 1]	60[Note 1]	80 - 120	1	0 - 20
Vanadium	EPA 6010A	102	105	80 - 120	1	0 - 20
Zinc	EPA 6010A	89	91	80 - 120	1	0 - 20

Matrix Spike/Matrix Spike Duplicate

Sample Spiked: CSP3-3

Analyte	Method	MS%REC	MSD%REC	Control Limits	%RPD	Control Limits
Mercury	EPA 7471A	109	109	50 - 130	0	0 - 20

1. The MS/MSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS was in control and, hence, the associated sample data was reported with no further corrective action required.

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ANALYTICAL REPORT

Alton Geoscience	Date Sampled:	06/17/98
25-A Technology Drive, Suite 200	Date Received:	06/22/98
Irvine, CA 92718	Date Digested:	06/23/98
	Date Analyzed:	06/24/98
	Work Order No.:	98-06-0604
Attn: Mike Pitta		
RE: Jalk Fee Property	Page 12 of 12	

All concentrations are reported in mg/kg (ppm). Analyses for Title 22 metals were conducted on a total digestion.

QA/QC

Sample Number: Laboratory Control Sample

Analyte	Method	Conc. Added	Conc. Rec.	%REC	Control Limits (%)
Antimony	EPA 6010A	50.0	54.3	109	80 - 120
Barium	EPA 6010A	50.0	54.9	110	80 - 120
Selenium	EPA 6010A	50.0	48.6	97	80 - 120
Thallium	EPA 6010A	50.0	49.6	99	80 - 120

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL chilled, intact, and with chain-of-custody attached.

Calscience Environmental Laboratories, Inc.

GLOSSARY OF TERMS AND QUALIFIERS

Work Order Number: 98-06-0604

Qualifier	Definition
ND	Not detected at indicated reporting limit.

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CEL# 98-06-0604

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7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 • FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

Date 6/22/98
Page 1 of 1

LABORATORY CLIENT: Mobil C.O. Allen Geoscience
ADDRESS: 25 A Technology Drive
CITY: Irvine STATE: CA ZIP: 92618
TEL: (949) 753-0101 FAX: (949) 753-0111 E-MAIL:

CLIENT PROJECT NAME / NUMBER: Jalk Fee Property
PROJECT CONTACT: Michael Pitts
SAMPLER(S): (SIGNATURE) Michael Pitts

P.O. NO.:
QUOTE NO.:
LAB USE ONLY

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☒ 48 HR ☐ 72 HRS ☐ 5 DAYS ☐ 10 DAYS

SPECIAL INSTRUCTIONS

REQUESTED ANALYSES

SAMPLE ID	LOCATION/DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g) (d) (o)	BTEX / MTBE (8021B)	HALOCARBONS (8021B)	VOCs (8260B)	SVOCs (8270C)	PEST / PCBs (8081A)	EDB / DBCP (504.1 or 8011)	CAC, T22 METALS (6010A)	ICP/MS METALS (6020)	PNAs (8310)	VOCs (TO-14)	CH_4 / TGNMO (26.1)	FIXED GASES (25.1 or D1946)	418.1 (TRPH)	[illegible]
CSP3-1	Composite Stockpile	6/17/98	MP	Soil	4		X	X					X		X				X	X
CSP3-2	Samples																			
CSP3-3																				
CSP3-4																				
CSP3-5																				
CSP1-6																				
CSP1-7																				
CSP2-8																				
CSP2-9																				
CSP2-10																				

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Michael Pitts	[signature]	6/22/98	1515
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received for Laboratory by: (Signature)	Date:	Time:

All turnaround times are based on working hours of 8:30 a.m. - 5:30 p.m. M - F. Unless otherwise requested, all samples will be disposed of 30 days after receipt.

8/27/97 Revision

DISTRIBUTION: White with final report, Yellow to File, Pink to Client

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GARDEN GROVE, CA 92841-1432
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CHAIN OF CUSTODY RECORD

Date 6/22/98

Page 1 of 1

LABORATORY CLIENT: Mobil C. O. Alton Geoscience

ADDRESS: 25A Technology Drive

CITY: Irvine STATE: CA ZIP: 92618

TEL: (949) 753-0101 FAX: (949) 753-0111 E-MAIL:

CLIENT PROJECT NAME / NUMBER: Jalk Fee Property

PROJECT CONTACT: Michael Pitta

SAMPLER(S): (SIGNATURE) Michael Pitta

P.O. NO.:

QUOTE NO.:

LAB USE ONLY: 0 6 - 6 0 4

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☒ 48 HR ☐ 72 HRS ☐ 5 DAYS ☐ 10 DAYS

SPECIAL INSTRUCTIONS

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	LOCATION/DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g) (d) (o)	BTEX / MTBE (8021B)	HALOCARBONS (8021B)	VOCs (8260B)	SVOCs (8270C)	PEST / PCBs (8081A)	EDB / DBCP (504.1 or 8011)	CAC, T22 METALS (6010A)	ICP/MS METALS (6020)	PNAs (8310)	VOCs (TO-14)	CH_4 / TGNMO (25.1)	FIXED GASES (25.1 or D1946)	418.1 (TRPH)	~~Total organic Halogens (TOX) 9020~~ MP					
1	CSP3-1	Composite Stockpile			Soil	4		X	X					X		X				X	X					
2	CSP3-2	Samples																								
3	CSP3-3																									
4	CSP3-4																									
5	CSP3-5																									
6	CSP1-6																									
7	CSP1-7																									
8	CSP2-8																									
9	CSP2-9																									
10	CSP2-10																									

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Michael Pitta	Rey [signature]	6/22/98	1515
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature) Rey [signature]	Received for Laboratory by: (Signature) [signature]	6/22/98	1955

All turnaround times are based on working hours of 8:30 a.m. - 5:30 p.m. M - F. Unless otherwise requested, all samples will be disposed of 30 days after receipt.

8/27/97 Revision

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Calscience
Environmental
Laboratories, Inc.

June 13, 1998

Mike Pitta
Alton Geoscience
25-A Technology Drive, Suite 200
Irvine, CA 92718

Subject: **Calscience Work Order Number: 98-06-0364**
Client Reference: Mobil Ja/K FEE/23-0134

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 06/12/98 and analyzed in accordance with the attached chain-of-custody.

The results in this analytical report are limited to the samples tested, and any reproduction of this report must be made in its entirety.

If you have any questions regarding this report, require sampling supplies or field services, or information on our analytical services, please feel free to call me at (714) 895-5494.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Mike Crisostomo
Project Manager

William H. Christensen
Deliverables Manager

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Alton Geoscience	Date Sampled:	06/11/98
25-A Technology Drive, Suite 200	Date Received:	06/12/98
Irvine, CA 92718	Date Extracted:	06/12/98
	Date Analyzed:	06/12/98
	Work Order No.:	98-06-0364
Attn: Mike Pitta	Method:	EPA 418.1
RE: Mobil Ja/K FEE/23-0134	Page 1 of 1	

All total recoverable petroleum hydrocarbon concentrations are reported in mg/kg (ppm).

Sample Number	Concentration	Reporting Limit
SP3-1	298	20
SP3-2	372	20
SP3-3	140	10
SP3-4	352	20
SP3-5	333	20
SP3-6	343	20
SP3-7	382	20
SP3-8	515	40
SP3-9	280	20
SP3-10	242	20
SP3-11	242	20
SP3-12	315	20
Method Blank	ND	10

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL chilled, intact, and with chain-of-custody attached.

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Calscience Environmental Laboratories, Inc.

QUALITY ASSURANCE SUMMARY

Method EPA 418.1

Alton Geoscience		Work Order No.:	98-06-0364
Page 1 of 1		Date Analyzed:	06/11/98

Matrix Spike/Matrix Spike Duplicate

Sample Spiked: 98-06-0298-1

Analyte	MS%REC	MSD%REC	Control Limits	%RPD	Control Limits
Total Recoverable Petroleum Hydrocarbons	95	95	55 - 135	0	0 - 30

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8021A Halogenated and Aromatic VOCs

Client Name:	Alton Geoscience		
Project ID:	Mobil Jalk Fee / 23-0134		
Work Order Number:	98-06-0364		
QC Batch ID:	980624AS	Date Collected:	06/11/98
Matrix:	Solid	Date Received:	06/12/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8021A	Date Analyzed:	06/25/98

Client Sample Number: **SP3-A**
Lab Sample Number: 98-06-0364-13

Parameter	Result	RL	Qualifiers	Units
Dichlorodifluoromethane	ND	5.0		ug/kg
Chloromethane	ND	5.0		ug/kg
Vinyl Chloride	ND	5.0		ug/kg
Bromomethane	ND	5.0		ug/kg
Chloroethane	ND	5.0		ug/kg
Trichlorofluoromethane	ND	5.0		ug/kg
1,1-Dichloroethene	ND	5.0		ug/kg
Methylene Chloride	ND	10		ug/kg
t-1,2-Dichloroethene	ND	5.0		ug/kg
1,1-Dichloroethane	ND	5.0		ug/kg
c-1,2-Dichloroethene	ND	5.0		ug/kg
Chloroform	ND	5.0		ug/kg
1,2-Dichloroethane	ND	5.0		ug/kg
1,1,1-Trichloroethane	ND	5.0		ug/kg
Carbon Tetrachloride	ND	5.0		ug/kg
1,2-Dichloropropane	ND	5.0		ug/kg
Trichloroethene	ND	5.0		ug/kg
Bromodichloromethane	ND	5.0		ug/kg
2-Chloroethyl Vinyl Ether	ND	5.0		ug/kg
c-1,3-Dichloropropene	ND	5.0		ug/kg
t-1,3-Dichloropropene	ND	5.0		ug/kg
1,1,2-Trichloroethane	ND	5.0		ug/kg
Dibromochloromethane	ND	5.0		ug/kg
Tetrachloroethene	ND	5.0		ug/kg
Chlorobenzene	ND	5.0		ug/kg
Bromoform	ND	5.0		ug/kg
1,1,2,2-Tetrachloroethane	ND	5.0		ug/kg
1,3-Dichlorobenzene	ND	5.0		ug/kg
1,4-Dichlorobenzene	ND	5.0		ug/kg
1,2-Dichlorobenzene	ND	5.0		ug/kg
Benzene	ND	5.0		ug/kg
Toluene	ND	5.0		ug/kg
Ethylbenzene	ND	5.0		ug/kg
p/m-Xylene	ND	10		ug/kg

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA 8021A Halogenated and Aromatic VOCs

Client Name:	Alton Geoscience		
Project ID:	Mobil Jalk Fee / 23-0134		
Work Order Number:	98-06-0364		
QC Batch ID:	980624AS	Date Collected:	06/11/98
Matrix:	Solid	Date Received:	06/12/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA 8021A	Date Analyzed:	06/25/98

Client Sample Number: **SP3-A**
Lab Sample Number: 98-06-0364-13

Parameter	Result	RL	Qualifiers	Units
o-Xylene	ND	5.0		ug/kg

Surrogates:	REC (%)	Control Limits	Qualifiers
2-Chloropropane	83	60-135	
1-Chloro-3-Fluorobenzene	78	60-135	
Fluorobenzene	78	60-135	