APPENDIX C

Combined Phase I and Limited Phase 2 Environmental Site Assessment

Wallace Kuhl
& ASSOCIATES INC

Phase 1 Environmental Site Assessment

CRYSTAL CREAMERY

Sacramento, California

WKA No. 7528.01

August 9, 2007

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PHASE 1 ENVIRONMENTAL SITE ASSESSMENT
CRYSTAL CREAMERY

Sacramento, California
WKA No. 7528.01
August 9, 2007

Wallace-Kuhl & Associates, Inc., on behalf of Cornice Development Company prepared this combination Phase 1 and Limited Phase 2 Environmental Site Assessment for the Crystal Creamery located at 1013 D Street, Sacramento, California. We declare that, to the best of our professional knowledge and belief, both the report preparer and reviewer meet the definition of *Environmental Professional* as defined in §312.10 of 40 CFR 312 and has the "specific qualifications based on education, training, and experience to assess a *property* of the nature, history, and setting of the subject *property*. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312." Resumes of the key staff who prepared this report are included in Appendix A.

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PHASE 1 ENVIRONMENTAL SITE ASSESSMENT
CRYSTAL CREAMERY

TABLE OF CONTENTS

EXECUTIVE SUMMARY i
1.0 INTRODUCTION 1
1.1 Purpose 1
1.2 Scope of Services 1
1.3 Special Terms and Conditions 2
1.4 User Provided Information 2
2.0 SITE DESCRIPTION 3
2.1 Site and Vicinity General Characteristics 3
2.2 Site Reconnaissance 3
2.2.1 Municipal Infrastructure and Utilities 7
2.3 Adjoining Properties 7
3.0 INTERVIEWS 8
3.1 Owner or Key Site Manager 8
3.2 Occupants (Multi-family or Major) 9
3.3 Past and Present Owners, Operators, and/or Occupants 9
3.4 State and/or Local Government Officials 9
3.5 Abandoned Properties 9
4.0 RECORDS REVIEW 10
4.1 Physical Setting Source(s) 10
4.1.1 Regional and Local Geology 10
4.1.2 Soil Survey 11
4.1.3 Regional and Local Groundwater 11
4.2 Historical Use Information 12
4.2.1 Sanborn® Maps 13
4.2.2 Topographic Maps 15
4.2.3 California Oil/Gas Well Maps 16
4.2.4 Aerial Photographs 16
4.2.5 Ownership Records 17
4.2.6 Building Department Records 17
4.2.7 Local Street Directories 17
4.2.8 Zoning Records 18
4.2.9 Land Use Records 18
4.2.10 Other Historical Sources 18
4.2.11 Prior Assessments 18

PHASE 1 ENVIRONMENTAL SITE ASSESSMENT
CRYSTAL CREAMERY

TABLE OF CONTENTS (cont.)

4.3 Environmental Record Sources 20
4.3.1 1013 D Street (site) 20
4.3.2 Additional listed facilities 20
4.3.3 Environmental Lien search 22
5.0 CONCLUSIONS AND RECOMMENDATIONS 23
5.1 Data Gaps 23
5.2 Conclusions 23
5.3 Recommendations 24
5.4 Exceptions and/or Deletions 25
5.5 Additional Services 25
6.0 LIMITATIONS 26
7.0 REFERENCES 27

FIGURES

1 Vicinity Map
2 Topographic Map
3 Parcel Map
4 Color Photographs
5 Site Plan

TABLES

1 Agency Database Summary

APPENDICES

A Resumes
B 2006 Water Quality Report
C City of Sacramento Building Permits
D The EDR® Environmental Lien Search Report

Attached CD-ROM contains: EDR® Radius Map Report,
EDR® Aerial Photographic Decade Package,
EDR® Historical Topographic Maps,
EDR® Sanborn Map Search,
EDR® City Directory Abstract,
The EDR® Environmental Lien Search Report,
SCEMD files for 1013 D Street,
Phase 1 ESA, Crystal Creamery (WKA No. 7528.01, dated August 6, 2007), and
Subsurface Investigation Report of Findings (WKA No. 7528.04, dated August 1, 2007)

PHASE 1 ENVIRONMENTAL SITE ASSESSMENT
CRYSTAL CREAMERY

EXECUTIVE SUMMARY

Crystal Cream & Butter Company (Crystal) is located at 1013 D Street in Sacramento, California (Figures 1 and 2) and is identified by the following sixteen Sacramento County Assessor's Parcel Numbers (APNs):

002-0076-006, 002-0076-007, 002-0076-014, 002-0076-016, 002-0076-018, 002-0076-019, 002-0076-020, 002-0113-003, 002-0113-011, 002-0113-012, 002-0113-013, 002-0113-014, 002-0113-019, 002-0113-020, 002-0113-022, 002-0113-023.

A Sacramento County Assessor's Parcel Map has been adapted to serve as Figure 3 of this report. The site is located in a mixed use area containing residential housing, commercial, and industrial businesses.

The following presents a list of observations and findings identified during the preparation of this report:

- The site was developed by at least 1895. Crystal began operations on the site in 1912. As Crystal expanded, facility operations grew to include approximately three and one-half current city blocks
- Throughout the time that Crystal has been in operation at the site, at least 13 underground storage tanks (USTs) have been associated with the property and a former gas station location, which has since became part of the Crystal site. Nine of the USTs have been removed from the site. A hydraulic lift, an oil/water separator, a paint booth, and two suspected mechanic's pits were also identified on the site
- The features above were identified as Recognized Environmental Conditions (RECs) on the site. The RECs were subsequently evaluated for their potential impacts to soil and groundwater beneath the site in a concurrent Phase II assessment performed by WKA
- As part of a Phase II subsurface assessment, a geophysical investigation revealed the presence of underground anomalies or measurable electronic signatures that are typically associated with large volume shapes such as USTs, near the approximate location of a historically mapped 1,500-gallon crude oil UST

- Based on the results of soil sampling conducted as part of the Phase II assessment, only one REC was reported to have adversely affected the site; the crude oil UST location. The remaining identified RECs do not appear to represent a significant adverse impact soil and/or groundwater beneath the site, based on the reported laboratory results for the performed soil and groundwater sampling

This assessment has revealed evidence of Recognized Environmental Conditions in connection with the site in the form of soil contamination at the location of the crude oil UST. WKA recommends that the remaining USTs on the site be abandonment under SCEMD permit. Additionally, the contaminated soils in the vicinity of the crude oil tank should be fully delineated and removed during abandonment of the historical crude oil UST.

PHASE 1 ENVIRONMENTAL SITE ASSESSMENT
CRYSTAL CREAMERY

1.0 INTRODUCTION

1.1 Purpose

The purpose of this Phase 1 Environmental Site Assessment (ESA) was to evaluate Crystal Creamery (herein referred to as site), for evidence of potential Recognized Environmental Conditions (RECs) resulting from current and/or former site activities. According to the American Society of Testing and Materials (ASTM) Standard E 1527-05 the term REC is defined as "the presence or likely presence of any *hazardous substances* or *petroleum products* on a *property* under conditions that indicate an existing release, a past release, or a *material threat* of a release of any *hazardous substances* or *petroleum products* into structures on the *property* or into the ground, groundwater, or surface water of the *property*."

According to the ASTM, "this practice is intended to permit a *user* to satisfy one of the requirements to qualify for the *innocent landowner*, *contiguous property owner*, or *bona fide prospective purchaser* limitations on CERCLA [Comprehensive Environmental Response, Compensation and Liability Act] liability (hereinafter, the "*landowner liability protections*," or "*LLPs*"): that is, the practice that constitutes "*all appropriate inquiry* into the previous ownership and uses of the *property* consistent with good commercial or customary practice" as defined at 42 U.S.C. §9601(35)(B)."

1.2 Scope of Services

Wallace-Kuhl & Associates, Inc. (WKA) has completed this ESA for the site shown on various maps included as Figures 1 through 3. Mr. Todd Rudd with Cornice Development Company authorized this assessment on February 16, 2007. This ESA has been performed in conformance with the ASTM Standard E 1527-05 and the scope and limitations defined in WKA's proposal, 7PR07010 (January 22, 2007). The scope of work for this ESA included the following:

- Site Reconnaissance
- Interviews
- Records Review
- Report Preparation

1.3 Special Terms and Conditions

In addition to the Phase I ESA, WKA also completed concurrent Phase II work consisting of soil and groundwater sampling and testing for potential contaminants from existing and historical underground storage tanks (USTs) was conducted on the site. The locations, methods, and results of the Phase II assessment are presented under a separate cover titled *Subsurface Investigation Report of Findings* and addressed to Meridian Development LLC, Rancho Santa Fe, California (WKA No. 7528.04). A copy of that report is included in a .pdf format on the attached CD-ROM.

As part of Phase II assessment activities referenced above, a geophysical subcontractor, Subtronics Corporation of Concord, California (Subtronics), was contracted to identify underground utilities in the areas of the proposed soil borings. On April 5, 2007, Subtronics utilized ground penetrating radar and/or other appropriate electronic techniques to identify the presence or absence of underground storage tanks (USTs) and underground conduits in the proposed sampling locations. The results of the geophysical investigation revealed the presence of underground anomalies or measurable electronic signatures that are typically associated with large volume shapes such as USTs, near the approximate location of the mapped 1,500-gallon crude oil tank as mentioned review of the Sanborn Maps in Section 4.2.1 of this report and designated on Figure 5 as "E." Subtronics could not confirm the object was the UST in question, but the signal signature was consistent with a buried object of that size.

1.4 User Provided Information

An ASTM E 1527-05 User Questionnaire was submitted to Cornice Development Company in January 2007. As of the date of this report, the Questionnaire has not been returned to WKA for inclusion in this report (see Section 5.1).

2.0 SITE DESCRIPTION

2.1 Site and Vicinity General Characteristics

According to the Crystal Cream & Butter Company (Crystal) website:

> Crystal has been located at 10th and D Streets in downtown Sacramento since 1912. Originally, this facility was simply a small butter churning operation occupying a 40' by 80' building. Over the years, as sales grew and products were added, this facility expanded and now encompasses over 3-1/2 city blocks. Until the opening of the Belvedere Avenue fluid plant in 1996, the D Street plant may have been the only plant in the country to bottle fluid milk and manufacture condensed milk, butter, nonfat milk powder, ice cream, cottage cheese, sour cream, buttermilk, and yogurt under one roof. This site no longer manufactures any by-products but remains the location of Crystal's corporate office (Crystal, 2007).

The site is located at 1013 D Street in Sacramento, California (Figures 1 and 2) and is identified by the following sixteen Sacramento County Assessor's Parcel Numbers (APNs): 002-0076-006, 002-0076-007, 002-0076-014, 002-0076-016, 002-0076-018, 002-0076-019, 002-0076-020, 002-0113-003, 002-0113-011, 002-0113-012, 002-0113-013, 002-0113-014, 002-0113-019, 002-0113-020, 002-0113-022, 002-0113-023. A Sacramento County Assessor's Parcel Map has been adapted to serve as Figure 3 of this report. The site is located in a mixed use area containing residential housing, commercial, and industrial businesses.

2.2 Site Reconnaissance

The site was inspected by WKA on several occasions between March and July 2007 during Phase I and II activities. The initial site reconnaissance was conducted in March of 2007 to observe current conditions. Mr. Michael Beard (Vice President of Operations with Crystal) and Mr. Gene Gerwer (Sanitarian Field Representative) accompanied WKA on a tour of the Crystal facility on March 1, 2007 and were available for interviews (Section 3.1).

In general, the site contained four distinct areas: corporate offices, manufacturing areas, a maintenance shop, and warehouses related to the dairy products produced by Crystal (including ice cream, butter, cottage cheese, and yogurt). The structures on the site all appear to be slab-on-

grade. Color photographs of the site taken during the site reconnaissance are included as Figure 4. Each of the four areas is discussed in the following subheadings and is shown on the Site Plan included as Figure 5.

Corporate Offices

The corporate offices of Crystal were located at 1013 D Street on the second floor. The offices were improved with typical office-type features and no storage of hazardous materials was observed in this area of the site. Beneath the offices are portions of the manufacturing areas. This portion of the site appears to be a remodel of the original 40' by 80' building, which dates back to circa-1912.

Manufacturing areas

In order to keep the dairy products at the correct temperature, ammonia and Freon were used as refrigerants for cooling and cold storage on the site. The ammonia is contained in a closed system. On the date of the initial site reconnaissance, Mr. Beard stated that most of the ammonia has been removed from the storage tanks located on the site.

Crystal utilized a wastewater pretreatment system to process effluent prior to discharge to the sanitary sewer system. The system in general consisted of grease traps and pH adjustment/settling tanks located on the northeastern site boundary (uses sodium hydroxide to adjust the pH prior to discharge to the sewer). Floor drains were connected to a series of underground pipes that are connected to the wastewater treatment unit and ultimately discharged to the sanitary sewer system.

The "Clean-in-Place" or CIP system, was located within the manufacturing area of the facility. The CIP was a closed-loop system used for flushing and cleaning the product lines throughout the facility. Bulk chemicals used in the CIP process include an acid sanitizer (isopropanol, phosphoric acid and sulfuric acid) and an inorganic cleaner Triumph (surfactant, tetrapotassium phosphate/potassium hydroxide solution and sodium hypochlorite). These bulk chemicals were stored in chemical storage areas on the eastern side of the building in above ground tanks. Chemicals used in the CIP system were reused until their effectiveness degrades, at which time they were discharged into the wastewater system, pre-treated and ultimately discharged to the sanitary sewer system.

Dryers and boilers were fired by natural gas and were backed-up by diesel fuel. The underground diesel tanks were located near the northwestern end of the site until they were removed in 1998. "A," "B," and "C" on Figure 5 show the former locations of these tanks. A fill port for on of the previous underground diesel fuel storage tank was still in place on the date of the site reconnaissance (Figure 4, Photo 1).

The remaining areas contain numerous pieces of stainless steal and other machinery, raw milk silos, and storage tanks used in the manufacturing and processing of a variety of dairy products. On the date of the site reconnaissances, many of the pieces of equipment were being dismantled and removed because they had been sold as part of the planned facility closure.

During the months preceding the initial site reconnaissance of March 2007, WKA observed many of the interior features related to dairy processing being removed from the site. These features included silos and other machinery. WKA has not conducted a visual inspection of each of these areas after they were cleared.

Maintenance Shop

The Crystal maintenance shop was located south of D Street (Figure 4, Photo 2) and contained two structures and a parking lot area. The first structure was a shop building, which contained a freezer, restroom, two offices, a paint booth, a mezzanine, and open shop area. A few stored automobiles, Crystal machinery, automotive repair-type tools, and some related stored fluids were observed in the shop. The eastern portion of the shop contained an out-of-service hydraulic lift. The hydraulic tank associated with the lift was located on the northwest wall of the eastern shop area (Figure 4, Photo 3). An out-of-service fuel dispenser was located on the southeastern wall of the shop. The shop contained stored oils, solvents and other related fluids.

The shop also consisted of a concrete floor, which contained areas of staining and cracking. A patched area of concrete floor was located in the central portion of the shop and was the location of a former underground waste oil tank (Figure 5, "J"). As stated previously, a paint booth was located at the northeastern end of the shop. According to Mr. Gerwer, Crystal used the paint booth to paint trucks and parts. A drainage inlet was observed on the floor of the shop, near the southeastern wall. The drain is apparently connected to the municipal sewer system.

The second structure was a dry-goods warehouse that was formally a garage building. Several stored marketing items and small display cases and freezers were stored in the warehouse. The southwestern area of the warehouse contained at least three areas of rectangular concrete patching, possibly former mechanics pits.

On the date of the site reconnaissance, diesel fuel was dispensed from a dispenser pump located south of the shop, on top of a 20,000-gallon diesel UST (Figure 4, Photo 4). According to Mr. Larry Stall, head engineer with Crystal, the tank had a capacity of approximately 20,000 gallons and contained diesel fuel. A propane tank was located near the southwestern site boundary, west of the shop. An oil/water separator was located on the west exterior side of the shop within the parking lot (Figure 4, Photo 5). A steam cleaner was also located on the western exterior wall of the shop. Stickers on the steam cleaner indicated that biodegradable cleaning solutions were used. This area also contained patched asphalt paving related to the removal of USTs in this area, designated as "G," "H," and "I" on Figure 5.

Warehouse

As mentioned in the previous subheading, a dry-goods warehouse was located near the southwestern site boundary, south of the shop. Two additional warehouses were located on the site, one at the northern boundary (north of C Street) and one at the western boundary, north of D Street. The northern warehouse contained dry goods. Adjacent to and south of the warehouse was a covered loading dock and storage area. The loading dock contained some hydraulic machinery. A small hydraulic tank was located at the eastern end of the dock. A minor amount of hydraulic fluid had leaked from the tank. A truck scale was located adjacent to and south of the loading dock. To the east of the northern warehouse was a water supply well and above ground water tank. According to Mr. Beard, the water well was powered by electricity and is no longer used.

A second warehouse was located at the west-central boundary of the site. This warehouse also contained dry goods. A freezer box was located inside the warehouse. According to Mr. Beard a freezer box was running on Freon on the date of the initial site reconnaissance.

The remaining areas of the site contained concrete or asphalt pads and roads, portions of C Street and 10th Street, which are part of the Crystal site. A vent pipe for an apparent underground fuel storage tank was located on the southern wall of the main building containing the offices (Figure

4, Photo 6). According to Mr. Gerwer, the "boss" used to gas-up his car at the building and stated that a fuel dispenser pump was located just inside one of the roll-up doors, adjacent to D Street.

Pad-mounted electrical transformers are located on the western side of the building containing the offices. Two groundwater monitoring wells were observed in the 10th Street portion of the site, west of the manufacturing areas.

2.2.1 Municipal Infrastructure and Utilities

Municipal infrastructure and potable water were provided by City of Sacramento. Water supplied by the City is tested on a routine basis for bacteria, organic chemicals, inorganic constituents (including lead), and other parameters. A copy of the most recent *Water Quality Consumer Confidence Report* for the City of Sacramento is included as Appendix B of this report.

Public sewer lines are located beneath the street easements and alleyways in on the site. Stormwater runoff was directed into stormwater drain inlets located on the site and infrastructure located in the surrounding street easements.

No signs, vent pipes, control structures, or other surface evidence of buried liquid petroleum pipelines were observed on or adjacent to the site. No high-voltage, tower-mounted, electrical transmission lines were observed on or adjacent to the site. Neighborhood distribution, pole-mounted, electrical lines (12 kV) were observed on the site and within the adjacent street easements. Four pad-mounted and at least four pole-mounted electrical transformers were observed on the site. All observed transformers appear to be in good condition and were not leaking on the date of the site reconnaissance.

2.3 Adjoining Properties

To the north of the site are railroad tracks of the Southern Pacific Railroad and to the north/northeast of the site is the location of Burnett and Sons Mill and Lumber Company. Some of the structures related to the lumber company are being redeveloped for low-rise apartments. Northwest/west of the site is the Southern Pacific Railyard. To the south the site is bounded by C Street and a store, beyond which are apartments residences. East of the site are residences and west of the site is 10th Street, an apartment complex, and a television station.

3.0 INTERVIEWS

Interviews with various persons, including public agencies, were conducted for the purpose of identifying past and present uses, which may have contributed to RECs on the site. Results of those interviews are discussed in the following sections.

3.1 Owner or Key Site Manager

As stated previously, Mr. Michael Beard (Vice President of Operations with Crystal) and Mr. Gene Gerwer (Sanitarian Field Representative) accompanied WKA on a tour of the Crystal facility. Before the tour the two men and Mr. Larry Stall (head engineer with Crystal) met with WKA for a question and answer session. Between March and July 2007 additional questions were answered via telephone or in person.

According to the three men, they could not recall an instance were a chemical spill had occurred that was subject to regulatory involvement. Mr. Gerwer seemed to recall that the City of Sacramento Fire Department came to the site one time for a minor ammonia spill.

Mr. Stall stated that at least seven underground storage tanks exist or existed on the site. He was aware of three of those seven being removed on the western side of the site and one being removed on the south end of the site in the shop building. Mr. Stall said that at least three tanks are currently in the ground, two at the western end of the site (the back-up diesel tank and one beneath the transformers) and one on the southern end of the site (the 20,000 gallon diesel tank used for fueling trucks). On March 21, 2007, WKA learned from Mr. Beard that the back-up diesel tank had be removed and that the tank beneath the pad-mounted electrical transformers on the western side of the site was believed to have been abandoned in-place sometime in approximately 1990 (Figure 5, "D").

Another tank may be still in the ground on the site adjacent to and north of D Street (Figure 5, "F"). As mentioned previously, Mr. Gerwer stated that the "boss" would gas-up his car at the building and stated that a fuel dispenser pump was located just side one of the roll-up doors, adjacent to D Street. Sanborn Maps, discussed in Section 4.2.1, show a ninth tank (a crude oil tank) near D Street as well (Figure 5, "E").

All three of the men were aware of the removed USTs and the UST currently being used but were not sure of the location of the two USTs along D Street (Figure 5, "E" and "F").

3.2 Occupants (Multi-family or Major)

The Crystal facility no longer produces dairy products and is in the process of dismantling equipment. Therefore, no occupants (workers) were interviewed.

3.3 Past and Present Owners, Operators, and/or Occupants

No past owners operators, and/or occupants were interviewed during the completion of this report.

3.4 State and/or Local Government Officials

Ms. Susan Genavasee with the Sacramento County Environmental Health Department was interviewed in March 2007 concerning the site. Ms. Genavasee stated that a file did exist for the site and supplied WKA with a copy of the file on CD-ROM. The file was reviewed and is further discussed in Section 4.3.

3.5 Abandoned Properties

As referenced in 40 CFR Part 312, in the case of inquiries conducted at "abandoned properties," as defined in §312.23(d), "where there is evidence of potential unauthorized uses of the subject property or evidence of uncontrolled access to the subject property, the environmental professional's inquiry must include interviewing one or more (as necessary) owners or occupants of neighboring or nearby properties from which it appears possible to have observed uses of, or releases at, such abandoned properties..." No evidence of potential unauthorized uses, or evidence of uncontrolled access to the site was observed. Therefore, WKA did not interview owners or occupants of neighboring properties.

4.0 RECORDS REVIEW

The purpose of the records review is to obtain and review information concerning the current and historical use of the site and adjoining properties that would help identify the presence of RECs in connection with the site. The records review included review and discussion of the following, as available:

- Physical Setting Source(s)
- Historical Use Information
- Environmental Record Sources

4.1 Physical Setting Source(s)

The site is depicted on the 1992 United States Geological Survey (USGS) 7.5 Minute topographic map of the *Sacramento East, California Quadrangle* as developed land. The site is located within Section 36, Township 9 North, Range 4 East, Mount Diablo Base and Meridian (MDBM). The site is located at an elevation of approximately +20 feet relative to mean sea level (msl).

4.1.1 Regional and Local Geology

The site is located within the Great Valley geomorphic province of California, a large, elongate, northwest-trending structural trough, generally constrained to the west by the Coast Ranges and to the east by the foothills of the Sierra Nevada (Norris and Webb, 1990). The Great Valley consists of two valleys lying end-to-end, with the Sacramento Valley to the north and the San Joaquin Valley to the south.

The Sacramento and San Joaquin Valleys have been filled to their present elevations with thick sequences of sediment derived from both marine and continental sources. The sedimentary deposits range in thickness from relatively thin deposits along the eastern valley edge to more than 25,000 feet in the south central portion of the Great Valley (Norris and Webb, 1990). The sedimentary geologic formations of the Great Valley province vary in age from Jurassic to Quaternary, with the older deposits being primarily marine in origin. Younger sediments are

continentally derived and were typically deposited in lacustrine, fluvial, and alluvial environments with their main source being the Sierra Nevada.

The 1981 California Division of Mines and Geology, *Geologic Map of Sacramento, California Quadrangle* (Wagner et al, 1981), shows the Pleistocene Modesto Formation underlies the majority of the site with a minor amount of Holocene (less than 11,000 years old) basin deposits on the southwest side. The Modesto Formation is characterized as alluvial sediments consisting of tan and light gray gravely sand, silt and clay except where derived from volcanic rocks of the Tuscan Formation. The basin deposits consist of fine-grained silt and clay.

4.1.2 Soil Survey

Review of the June 1991 U.S. Department of Agriculture, Soil Conservation Service (SCS) *Soil Survey of Sacramento County, California* indicates the near-surface soils on the subject property are Unit 227 "Urban land." Urban land consists of areas covered by relatively impervious surfaces such as roads, driveways, sidewalks, buildings and parking lots. In most areas, 90 percent or more of the area is covered by relatively impervious surfaces. The soil material under these impervious surfaces may have been altered during construction. This soil unit is generally not used for agricultural purposes.

Soil borings performed as part of Phase II activities on the site indicate that the subsurface soils consisted primarily of sandy silts and silty sands to depths of approximately 16 feet below ground surface.

4.1.3 Regional and Local Groundwater

The site is located within the Sacramento Valley Groundwater Basin, as defined in *California's Groundwater, Bulletin 118* published by the California Department of Water Resources (DWR) and updated in October 2003. Groundwater elevations in the vicinity of the site are estimated using depth-to-groundwater measurements taken at one DWR-monitored well (#8N/5E-6H1), located approximately one-mile south/southeast from the site. The measured groundwater elevations are summarized in the hydrograph on Figure 4.

Measured groundwater elevations published for the well have fluctuated from a minimum of -13 feet MSL during the fall of 1968 to a maximum of +11 feet msl during the spring of 1983. The site has a surface elevation of approximately +20 feet msl. Groundwater in the site vicinity, therefore, has historically ranged from approximately 9 to 33 feet below ground surface.

Review of the Spring 2003 Sacramento Valley Groundwater Elevation map prepared by the California State Department of Water Resources indicates that depth to groundwater in the vicinity of the site is predicted to be approximately 30 feet below the ground surface.

Additionally, three groundwater monitoring wells were installed on the southeastern corner of the site in relation to Phase II sampling and testing completed by WKA in June of 2007. Measured the depth to groundwater was approximately 13 to 17 feet below the ground surface and the direction of groundwater flow at that time was predicted to be to the south (WKA 2007).

4.2 Historical Use Information

Historical information was reviewed to develop a history of the previous uses of the site and surrounding area, in order to evaluate the site and adjoining properties for evidence of RECs. Standard historical sources reviewed during the preparation of this report included the following, as available:

- Sanborn® Maps
- Topographic Maps
- Oil and Gas Well Maps
- Aerial Photographs
- Ownership Records
- Building Department Records
- Local Street Directories
- Zoning Records
- Land Use Records
- Other Historical Sources
- Prior Assessments

Discussion of these historical sources is provided in the following sections.

4.2.1 Sanborn® Maps

The availability of Sanborn® Maps with coverage of the site area was determined by Environmental Data Resources, Inc. (EDR®). EDR® is a national commercial provider of environmental database information. Sanborn® Maps are detailed drawings of site development, and were typically used by fire insurance companies to determine site fire insurability. Maps dated 1895, 1915, 1950, 1952, 1957, 1960, 1964, 1965, 1966, 1968, and 1970 were available for review (EDR® a). Each of the reviewed maps is included on the attached CD-ROM. The Sanborn® Map coverage is discussed below by year.

1895

The majority of the site is mapped as containing dwellings and related sheds or barns. The northern most portion of the site contains "City Street Improvm't Co. Sand & Gravel Yard." The southern most portion of the map contains "J.W. Barrett Green Houses." No map symbols or labels indicating underground tanks are mapped. The western portion of the site, west of 10th Street is not shown on the map.

1915

By 1915 a "Creamery" is mapped at 1013 D Street. This small facility is the original 40-foot by 80-foot Crystal Cream and Butter Company, which started in 1912. An underground storage tank is mapped within D Street approximately ten feet in front of the Crystal building. The tank is labeled as a "1,500 GAL CRUDE OIL TK UNDER GR" (a 1,500 gallon, underground, crude oil tank). This is the location of the presumed tank as discussed in Section 1.3 and designated as "E" on Figure 5 of this report.

The majority of the site has been developed with housing and related sheds and garages. The eastern portion of the site, north of D Street, contains a "Wells Fargo Express" vehicle warehouse and corral. The previously mapped J.W. Barrett Green Houses are no longer mapped and a building labeled "Transfer Storage" is mapped in its place.

The western portion of the site, west of 10th Street contains dwellings and a "Wire Mattress Factory."

The northern portion of the site, north of C Street, no longer contains the "City Street Improvm't Co. Sand & Gravel Yard." A grain warehouse is mapped in that location.

1950

By the 1950 mapping, Crystal's operations had expanded to include most of the western half of the City block between 10th and 11th Streets and C and D Streets. The southern most portion of the site, south of D Street is mapped as containing dwellings, a "Printing" shop, an "Auto Body Works," "Painters Storage," and a gas station at the corner of E and 11th Streets. The mattress facility on the western portion of the site is no longer mapped and is now labeled as lumber storage. The northern portion of the site, north of C Street, is now mapped as containing a larger grain and flour warehouse, adjacent to and north of the warehouse is a railroad spur and wooden loading dock.

1952

The majority of the site appears similar to the 1950 mapping. Crystal has expanded to include most of the site block between 10th and 11th Streets and C and D Streets.

1957

By the 1957 mapping, the southern portion of the site (south of D Street) contains a truck repair shop which is mapped as containing a gasoline pump and oil vault (Figure 5, "Maintenance Shop area"). No significant changes are apparent in relation to the previous, 1952, mapping.

1960

The site appears similar to the previous mapping. The crude oil tank first mentioned in the review of the 1915 mapping is still mapped. A transformer vault is mapped on the western portion of the site, north of D Street (near 321 C Street). Other than the transformers no other significant changes are mapped.

1964

By 1964 the Crystal facility has continued to expand. The southern area of the site, south of D Street, now contains a large parking area, the previously mentioned shop building, an auto repair garage, the printing shop, and dwellings. The gas station at the corner of E and 11th Streets is no longer mapped, and that corner is vacant. The western portion of the site is now a parking area as well, no structures are mapped. A gasoline pump and oil vault is mapped on the northwestern portion of the site, on 10th Street (Figure 5, "A").

1965, 1966, 1968, and 1970

This series of maps shown the site to be similar to the 1964 map. A liquid nitrogen above ground storage tank is mapped on the southern portion of the site. No other significant changes to the site are mapped.

4.2.2 Topographic Maps

Historical USGS topographic maps with coverage of the site and outlying land areas were reviewed. Topographic maps of the *Fair Oaks* (1902 and 1954) and *Sacramento East* (1949, 1967, 1975, and 1992) *California Quadrangle* were available for review (EDR® b). The maps are discussed below. The 1992 map has also been adapted to serve as Figure 2 of this report. The maps are also included on the attached CD-ROM.

The 1902 map shows the site to be developed land located on the northern edge of the City of Sacramento. Tracks of the Southern Pacific Railroad are located north of and adjacent to the site. The area to the north of the tracks is vacant land.

Each of the remaining topographic maps, 1949 through 1992, show the site as a portion of a larger land area of the City of Sacramento that is mapped with the USGS "omission tint." This USGS mapping symbol is typically used on land areas that have become so extensively developed that individual structural mapping was no longer considered feasible by USGS. Due to the presence of the omission tint, it is not possible to tell the number and/or sizes of structures that may have been present on the site.

No evidence was observed on the topographic maps to suggest the site was disturbed by human activities typically mapped by the USGS, such as the following: quarrying; installation or removal of pits, ponds or lagoons; occurrences of dredging or subsurface or surface mining; or, deposition of historically placed, USGS topographically mappable quantities of imported fill materials.

4.2.3 California Oil/Gas Well Maps

Review of California Department of Conservation, Division of Oil, Gas, and Geothermal Resources (DOGGR) Map *614,* dated October 2002, showed that the site is not located in a designated natural gas field. No DOGGR wells are located on or within at least one-mile of the site (State, 2002).

4.2.4 Aerial Photographs

Historical aerial photographs of the site and general vicinity were compiled by EDR® (EDR® c). Photographs covering the years 1952, 1961, 1971, 1984, 1993, and 1998 were reviewed; the results of the photographic review are discussed below by year and copies of the maps are included on the attached CD-ROM.

1952
Scale: 1 inch = 555 feet

Many of the buildings and structures mentioned in the discussion of the Sanborn Maps (Section 4.2.1) are visible in the 1952 aerial photograph. The site and immediate area contain large trees, the canopies of which obscure some of the ground surface of the site.

1961
Scale: 1 inch = 555 feet

No significant changes are visible on the site relative to the 1952 aerial photograph. A gas station is located at the far southeastern corner of the site.

1971
Scale: 1 inch = 333 feet

By 1971, the gas station located on the far southeastern corner of the site has been razed and this area is now a parking lot. The site appears very much similar to that which is described in the summary of the 1964 Sanborn map (Section 4.2.1).

1984, 1993, and 1998
Scale: 1 inch = 690 feet

These reviewed aerial photographs show the site to contain structures and buildings similar to the way the site is described in the site reconnaissance section of this report. Additionally, the tree canopies and scale and quality of the photographs, obscures details of the ground surface of the site.

4.2.5 Ownership Records

Available ownership information was reviewed through ParcelQuest®. ParcelQuest® is an on-line distributor of "Assessor-Direct property information throughout the State of California." According to the ParcelQuest® *Detail Report*, the ownership entity for the site is listed as Crystal Cream and Butter Company (ParcelQuest®, 2007).

4.2.6 Building Department Records

Archived permits records for the site were requested from the City of Sacramento in March of 2007. Available building records for the site are dated from 1922 to 1992, and are non-inclusive. Over 75 permits were reviewed and varied from "hookup 30hp pump" to "Connect ¾ HP gasoline dispenser" to building re-roofs and building remodels. Printouts showing available permits and descriptions as they were received from the City are included in Appendix C of this report.

4.2.7 Local Street Directories

Summaries of local street directories and listings with coverage of the site and surrounding streets were obtained from EDR®. These documents contain business and residential listings

based on street number identifiers. The site address of 1013 D Street was first encountered by EDR® in the 1928 *Sacramento Directory Company* and was listed as "Crystal Cream and Butter Company." In the preceding years reviewed, 1920 and 1923, the site address was not encountered.

The former gas station located on the southeastern corner of the site contained the street address of 1031 E Street. The reviewed directories indicated that the gas station was first shown as "Jackson J Gas Station" in 1942, as "Ablondoff Gas Station" in 1947, as "York Dauhl Gas Station" in 1952, and then "Vacant" in 1956 (EDR® d). A copy of *The EDR-City Directory Abstract* for the site address of 1013 D Street is included on the attached CD-ROM.

4.2.8 Zoning Records

According to information obtained from the January 2006 City of Sacramento *Zoning Map*, the site was zoned "M-1" or light industrial development (City, 2006).

4.2.9 Land Use Records

Due to the historical land use as shown through review of the previously discussed historical sources, no additional land use records were reviewed.

4.2.10 Other Historical Sources

No other historical sources of information were reviewed during the preparation of this report.

4.2.11 Prior Assessments

At least eight prior assessments for the site have been complete. The reviewed reports indicate that at least 13 USTs have been located on the site. The tanks have been designated as "A" through "M" on Figure 5. Many of these tanks have been removed or abandoned in place. Based on the reviewed reports, soil contaminated with petroleum hydrocarbon contamination was removed from several of the former tank locations.

Four USTs are still believed to be located on the site as of the date of this report as follows: one active 20,000-gallon diesel tank, one out-of-service 1,500-gallon crude oil tank, one 10,000-gallon out-of-service diesel tank, and one out-of-service 500-gallon gasoline tank. The previous reports reviewed are included on the attached CD-ROM under the heading of "SCEMD file for 1013 D Street."

Recent groundwater monitoring conducted by WKA on the northwestern area of the site has indicated trace amounts of petroleum hydrocarbon contamination. In February, WKA prepared a case closure request for that area of the site on behalf of Crystal. The case closure request is currently under review by the Sacramento County Environmental Management Department (SCEMD).

4.3 Environmental Record Sources

EDR® was contacted to provide a summary of facilities listed on regulatory agency databases using the ASTM-designated search radii (EDR® e). Table 1 shows ASTM standard environmental record sources as defined in Sections 8.2.1 and 8.2.2 of the ASTM Standard and the corresponding number of listed facilities according to the EDR® search. A copy of the entire EDR® report is included on the attached CD-ROM.

4.3.1 1013 D Street (site)

The site is located at 1013 D Street. General site history and use was presented in Sections 2.1 and 2.2 of this report. Hand written notes in the SCEMD files indicate that it is not certain how many USTs are or were on the site. Extensive review of the SCEMD files for the site by WKA revealed a total of 13 existing and previous USTs on the site, at least nine of which have been removed.

Based on review of the SCEMD files it was apparent that several RECs were located on the site in the form of USTs and other historical chemical use areas. Contaminated soils were removed from the site during some of the UST removals. The RECs were addressed in WKA's concurrent Phase II assessment (WKA No. 7528.04), the conclusions of which found that the majority of the identified RECs are not a significant threat to soil or groundwater at the site. However, the location of a crude oil UST identified on a 1915 Sanborn® Map was found to contain some soil contamination. Elevated concentrations of total petroleum hydrocarbons-as-Diesel (TPHd) and total petroleum hydrocarbons-as-motor oil (TPHmo), were reported in the soil sample taken from the vicinity of the tank. Total petroleum hydrocarbons-as-gasoline (TPHg), benzene, and Methyl-tert-butyl ether (MTBE), were not reported in the sample taken from the historical crude oil tank location.

4.3.2 Additional listed facilities

Several facilities are listed on the other reviewed regulatory databases, which included the *CORTESE* and *LUST* databases. Not all of the listed facilities warrant detailed discussions due to their distance from the site and/or based on reviewed documentation obtained from EDR®, the

Regional Water Quality Control Board's (RWQCB) GeoTracker website, and/or the Sacramento County Environmental Management Department (EMD).

The Sacramento County *Hazardous Materials Regulatory Compliance Master List* reveals over 22 facilities located within one-half mile of the site. The *Master List* contains many business that have hazardous materials use, including USTs and waste generators.

A total of seven facilities were listed on the Comprehensive Environmental Response, Compensation and Liability Information System (*CERCLIS*) and the *CORRACTS* and *RCRA* information systems. The *CORRACTS* and *RCRA* systems are the Environmental Protection Agency's (EPA's) comprehensive information systems that provided access to data supporting the Resource Conservation and Recovery Act (*RCRA*) of 1976 and the Hazardous and Solid Waste Amendments (*HSWA*) of 1984. Of the seven facilities, only one (Southern Pacific Transportation Company) is shown to have experienced an unauthorized hazardous materials release(s). The Southern Pacific Trans Company is also listed on State and local databases and therefore, is discussed under that corresponding subheading below. The other listed facilities are either reported as requiring no regulatory action, as having "*no violations found*," or are reported as having a "*case closed*" status.

Southern Pacific Transportation Company

Southern/Union Pacific Transportation Company (SPTCo) operated a railroad switching yard and railroad car maintenance facility at 401 I Street, approximately 700 feet northwest/west of the site, north of the Southern Pacific Railroad tracks. According to RWQCB file information, various contaminated areas have been identified at the railyard, including a rail car maintenance/repair shop, industrial wastewater ponds, a battery storage area, a drum storage area, and a grit blast waste pile area. Subsurface assessment activities at the railyard document that soil and groundwater beneath the SPTCo are contaminated with petroleum hydrocarbons, heavy metals and industrial solvents attributable to past on-site operations.

SPTCo is presently conducting an extensive on- and off-site groundwater investigation and remediation program. To date, over 200 groundwater monitoring wells have been installed in conjunction with their investigation. From that work, it is known that the SPTCo groundwater contaminant plumes have migrated to beneath approximately one-half of the central business

district of downtown Sacramento. Groundwater flow direction is predicted to be to the south/southeast, making the site cross to down gradient from areas of the SPTCo railyard where contamination has been identified (ERM, 2006).

According to the August 2006 *Union Pacific Railroad Company 2006 Annual Groundwater Monitoring report, Former SPTCo Sacramento Railyard, Sacramento, CA (Reporting and Monitoring Program No. R5-2005-0835)*, prepared by ERM-West, Inc. (ERM), volatile organic compounds (VOCs) emanating from the SPTCo have migrated to beneath the western portion of the site. The closest groundwater monitoring well to the site, WCC-54 (near the intersection of 10th and D Street), reportedly contained VOCs at 179.10 micorgrams per liter (ug/L) in April of 2006 (ERM, 2006). According to the reviewed map, *Total Volatile Organic Compounds Gravel Zone...,* from the ERM report, the groundwater beneath the site is predicted to contain VOC concentrations greater than 10 ug/L and less than 100 ug/L.

4.3.3 Environmental Lien search

Additionally, an Environmental Lien search for the site was requested through EDR®. According to EDR® no Environmental Liens or AULs were found for the site. The EDR® Environmental Lien Search Report is included in Appendix D. A copy of the report has also been included on the attached CD-ROM.

5.0 CONCLUSIONS AND RECOMMENDATIONS

5.1 Data Gaps

The earliest year of documented use of the site encountered during preparation of this report was 1915. The ASTM standard calls for researching site use back to 1940 or first developed, whichever is earlier. It is possible that the site was developed prior to 1915, however no earlier documentation or information was readily available. Additionally, the time intervals between the historical sources researched exceeded the minimum five-year period in some cases. The ASTM User Questionnaire was also not returned to WKA for inclusion within this report.

Data gaps identified during this assessment were not considered significant since the site use and history was well documented through other available information as presented in the Interviews Section of this report. Therefore, it is the opinion of WKA that the identified data gaps are not significant in terms of recognizing RECs in connection with the site.

5.2 Conclusions

In summary, the historical land use research dating back to the late 1800s, which included reviews of topographic maps, aerial photography, and other ASTM standard historical sources revealed that the site was developed by at least 1895 with residences, a sand and gravel yard, and greenhouses. In 1912 Crystal Creamery started operations with a single building on the site. As the years went on, Crystal expanded to its present size, incorporating approximately three and one-half city blocks. Given the age of the structures on the site, asbestos and lead-based paint may be present.

Based on the site reconnaissances performed during this ESA and the historical information contained herein, WKA found the following RECs in connection with the site: a total of 13 USTs associated with the site (some have been removed), an abandoned hydraulic lift, an oil/water separator, a paint booth, and two suspected abandoned mechanic's pits. Of the 13 USTs, at least nine are known to have been removed, one is currently being used, and the remaining three are suspected to still be in the ground beneath the site.

The RECs identified in this Phase I ESA, with the exception of the VOC contaminated groundwater from the SPTCo railyard, were addressed in WKA's concurrent Phase II work as stated in Section 1.3 and other sections in this report. Based on the findings presented in WKA's Phase II assessment, it is apparent that, "The findings of this assessment [the Phase II] have been evaluated and do not appear to represent significant adverse impact groundwater beneath the Crystal Cream & Butter Company property [site]." Additionally, based on the phase II assessment, subsurface soils do not appear to have been significantly impacted by the identified RECs except for in the vicinity of the crude oil UST located in front of the Crystal office (see Sections 1.3, 3.1, 4.2.1, and 4.2.11). See Phase II report for detailed conclusions regarding the identified RECs on the site.

It has been derived from the review of ERM 2006 groundwater monitoring report for the SPTCo. that groundwater beneath the western portion of the site is potentially impacted with VOCs associated with long-term railyard operations. WKA did not include an assessment of the potential extent of VOC impacted groundwater as part of the Phase II assessment.

5.3 Recommendations

When site structures are demolished, WKA recommends that prior to demolition, a qualified contractor survey the structures for ACMs and lead-based paint.

When no longer in use, the groundwater monitoring wells on the site should be abandoned under permit from SCEMD.

Concerning the identified RECs on the site, WKA reiterates the recommendations made in the concurrent Phase II report as follows:

> Based on the findings and conclusions of the Phase II subsurface investigation, it appears that the identified RECs do not warrant additional investigation. However, four of the 13 identified USTs require proper abandonment under SCEMD permit. Additionally, the contaminated soils in the vicinity of the crude oil tank should be removed during abandonment of that tank.

Additionally, it would be prudent of the owner of the site to stay informed on the status of the groundwater contamination in the area that has resulted from the SPTCo railyard operations.

This assessment has revealed evidence of RECs in connection with the site. In summary, WKA has performed this ESA in conformance with the scope and limitations of ASTM Standard Practice E 1527-05 for Crystal Creamery. Any exceptions to, or deletions from, this practice are described in Section 5.4 of this report. A full copy of this ESA report, in a .pdf format, is included on the attached CD-ROM.

5.4 Exceptions and/or Deletions

No exceptions or deletions from the ASTM E 1527-05 standard were made during the performance of this ESA.

5.5 Additional Services

Non-scope considerations, such as assessment for naturally occurring asbestos (NOA), wetlands evaluation, indoor air quality, laboratory testing of the soils and groundwater beneath the site for environmental contaminants (such as agricultural-related pesticides, termiticides, polychlorinated biphenyls [PCBs], or arsenic and lead), and assessments for asbestos containing materials and lead-based paint were not included or requested as part of this ESA. These additional components can be provided as part of a Phase 2 assessment, if requested.

6.0 LIMITATIONS

The statements and conclusions in this report are based upon the scope of work described above and on observations made only on the date of the field reconnaissances performed between March and July 2007. Work was performed using a degree of skill consistent with that of competent environmental consulting firms performing similar work in the area. Information regarding the site that is *publicly available* and *practically reviewable,* as described in the ASTM standard, was obtained. Additional research or receipt of information regarding the site that was not disclosed or available to WKA during this assessment may result in revision of the conclusions.

The conclusions in this report should be reevaluated if site conditions change. No recommendation is made as to the suitability of the site for any purpose. The results of the assessment do not preclude the possibility that materials, currently or in the future, defined as hazardous are present on the site, nor do the results of the work guarantee the potability of groundwater beneath the site. This report is applicable only to the investigated site and should not be used for any other property. No warranty is expressed or implied.

BPM:SAA:lmb
H:/dept7/5223.08 Crystal Creamery

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N

0 1000 2000

SCALE IN FEET

WallaceKuhl & ASSOCIATES INC

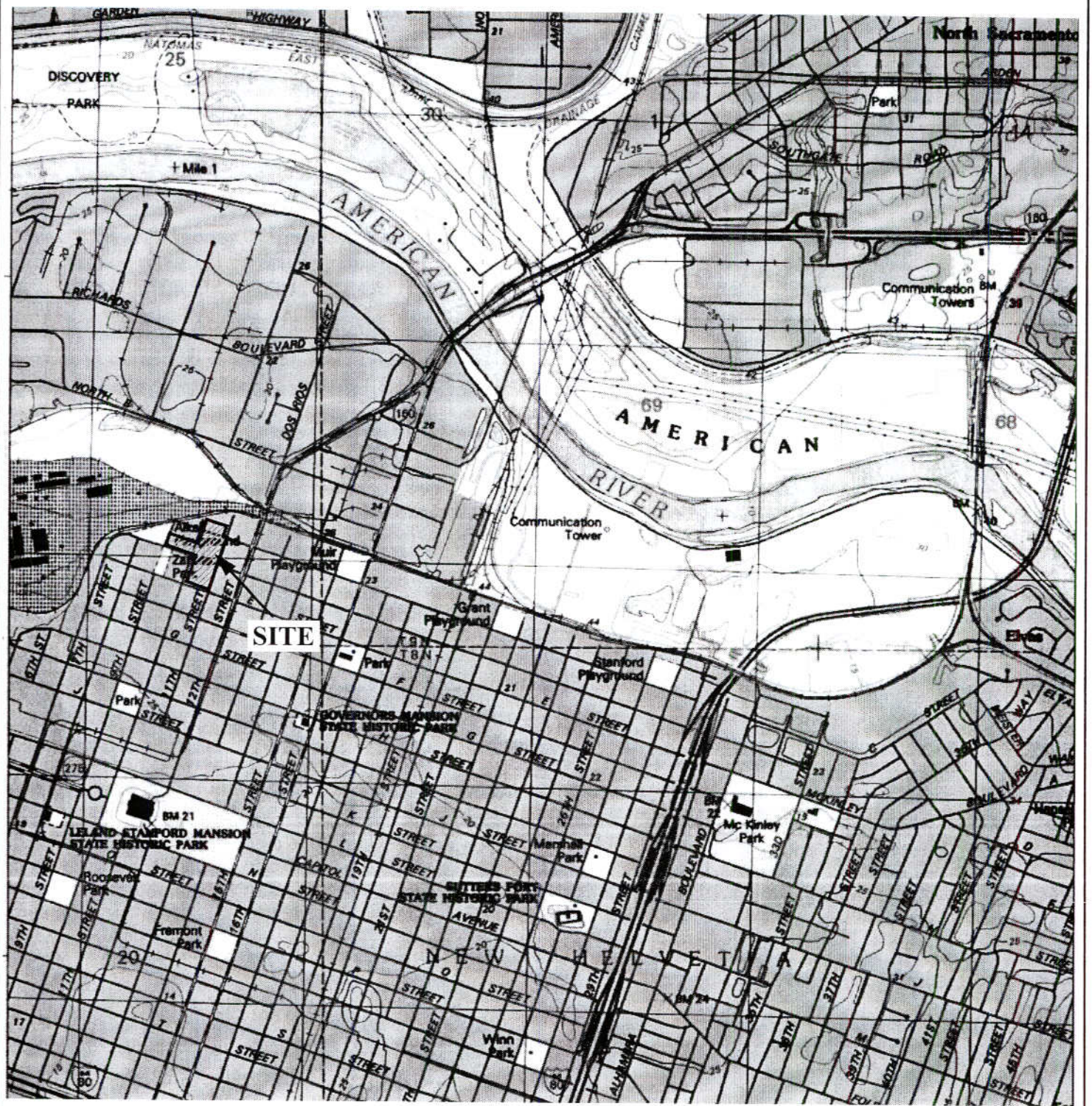
VICINITY MAP

CRYSTAL CREAMERY

Sacramento, California

FIGURE	1
DRAWN BY	BPM
CHECKED BY	SAA
PROJECT MGR	BPM
DATE	7/07

WKA NO. 7528.01



Adapted from the United States Geological Survey
1992 Sacramento East, California Quadrangle.

WallaceKuhl & ASSOCIATES INC

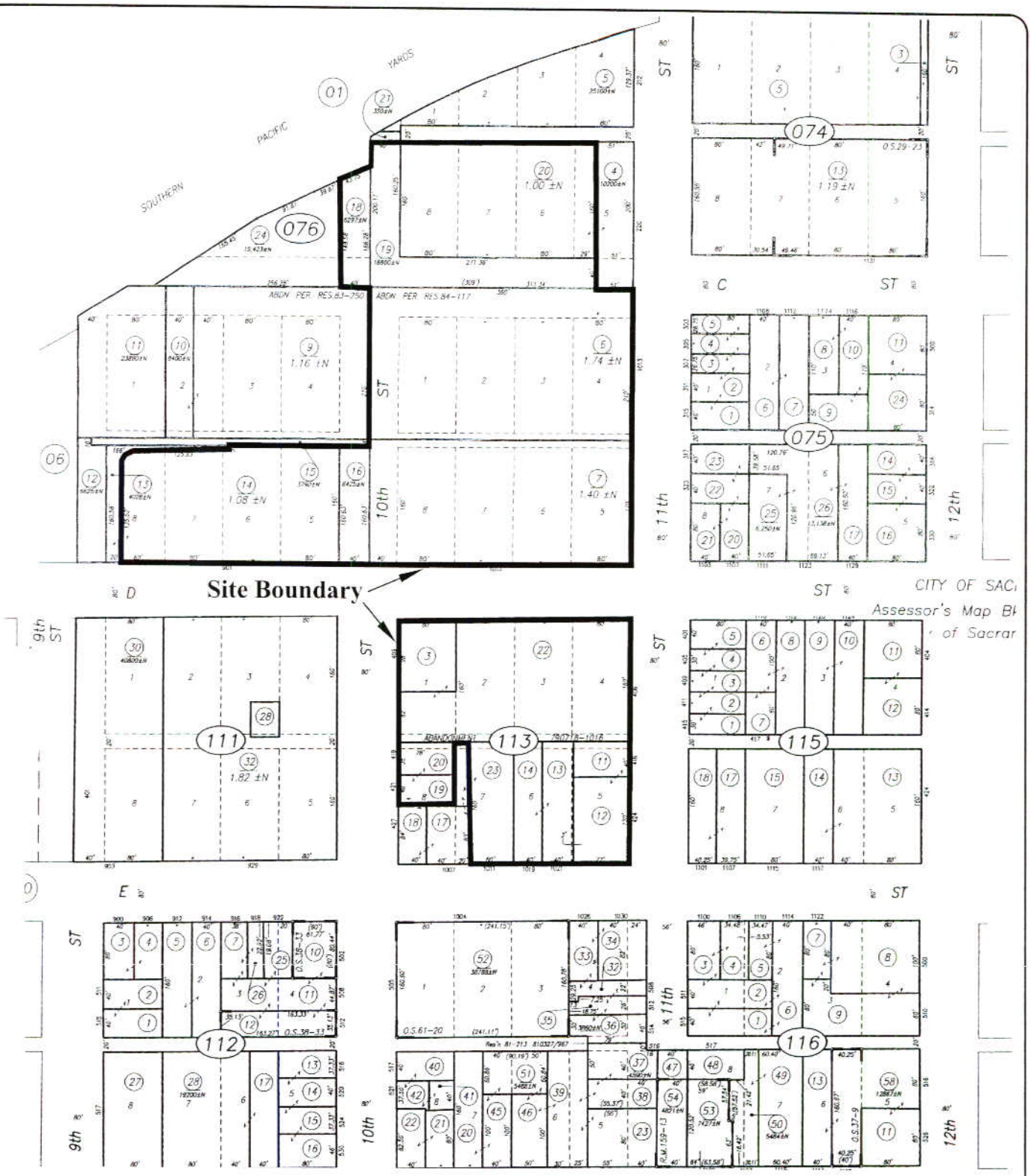
TOPOGRAPHIC MAP

CRYSTAL CREAMERY

Sacramento, California

FIGURE	2
DRAWN BY	BPM
CHECKED BY	SAA
PROJECT MGR	BPM
DATE	7/07

WKA NO. 7528.01



Adapted from the Sacramento County Assessor's Map Book 2, Pages 7 and 11.

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0 100 200

SCALE IN FEET

WallaceKuhl & ASSOCIATES INC

PARCEL MAP

CRYSTAL CREAMERY

Sacramento, California

FIGURE	3
DRAWN BY	BPM
CHECKED BY	SAA
PROJECT MGR	BPM
DATE	7/07

WKA NO. 7528.01

Photo 5: View of the oil/water separator located on the western side of the shop building.

Photo 6: Vent pipe (arrow) located on the wall of the Crystal building, north of 10th Street.

Photo 7: View of the offices of Crystal, 1013 D Street. This is the location of the original Crystal facility from 1912. The approximate location of the historical crude oil UST is indicated by the arrow

Photo 8: View of the Crystal facility, north of 10th Street.

WallaceKuhl & ASSOCIATES INC

COLOR PHOTOGRAPHS

CRYSTAL CREAMERY

Sacramento, California

FIGURE 4	
DRAWN BY	BPM
CHECKED BY	SAA
PROJECT MGR	BPM
DATE	07/07

WKA NO. 7528.01

Photo 1: View of the western area of the site. The arrow indicates the location of a fill port, a remnant of a former UST located in this area of the site.

Photo 2: View of the shop building located on the southern portion of the site, south of 10th Street.

Photo 3: View of the hydraulic tank associated with an out-of-service hydraulic lift located in the shop building.

Photo 4: View of the diesel fuel dispensers, which are located above an existing 20,000-gallon diesel UST.

Wallace Kuhl & Associates Inc

COLOR PHOTOGRAPHS

CRYSTAL CREAMERY

Sacramento, California

FIGURE 4	
DRAWN BY	BPM
CHECKED BY	SAA
PROJECT MGR	BPM
DATE	07/07

WKA NO. 7528.01

Legend:

G - Locations of existing or former USTs

Note:

Adapted from an aerial photograph from Google Earth™ mapping service, 2006.

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SCALE IN FEET

WallaceKuhl & ASSOCIATES INC

SITE PLAN

CRYSTAL CREAMERY

Sacramento, California

FIGURE 5	
DRAWN BY	BPM
CHECKED BY	SAA
PROJECT MGR	BPM
DATE	7/07
WKA NO. 7528.01	

TABLE 1

AGENCY DATABASE SEARCH SUMMARY
CRYSTAL CREAMERY
WKA No. 7528.01

	EDR Listed Database	*ASTM E 1527-05 Search Distance*	No. of Facilities Listed (within Search Radius)	**site** is listed on the database
Federal				
Federal NPL Site List	*NPL*	1-mile	0	
Federal Delisted NPL Site List	*Delisted NPL*	1/2-mile	0	
Federal CERCLIS List	*CERCLIS*	1/2-mile	2	
Federal CERCLIS NFRAP Site List	*CERCLIS NFRAP*	1/2-mile	0	
Federal RCRA CORRACTS Facilities List	*CORRACTS*	1-mile	1	
Federal RCRA Generators List:	*RCRAInfo*			
Small Quantity and Large Quantity Generators	*RCRA SQG*	site & adjoining	3	X
	RCRA LQG		1	
Landfills and Solid Waste Management Units	*RCRA TSDF*	1/2-mile	0	
Federal Institutional Control / Engineering Control Registries	*US ENG Controls*	site only	0	
	US INST Controls		0	
Federal ERNS List	*ERNS*	site only	0	
State				
State-equivalent NPL (Hist. Cal-Sites)	*Hist. Cal-Sites*	1-mile	6	
State-equivalent CERCLIS	*RESPONSE*	1/2-mile	0	
State Landfill and/or Solid Waste Disposal Site Lists	*SWF/LF (SWIS)*	1/2-mile	0	
	WMUDS/SWAT		0	
State Leaking Underground Storage Tanks	*LUST- Reg 5 Geotracker*	1/2-mile	20	X
Tribal Leaking Underground Storage	*Indian LUST*	1/2-mile	0	
State Registered Underground Storage Tanks	*UST*	site & adjoining	4	X
Tribal Registered Underground Storage Tanks	*Indian UST*	site & adjoining	0	
State Registered Aboveground Storage Tanks	*AST*	site & adjoining	0	
State Institutional Control Registries [No State-equivalent for Eng. Controls]	*DEED*	site only	0	
State Voluntary Cleanup Sites	*VCP*	1/2-mile	0	
State Brownfield Sites	*US Brownfields*	1/2-mile	0	
Additional Environmental Record Sources				
Hazardous Waste & Substances Sites List	*CORTESE*	1/2-mile	16	X
DTSC EnviroStor (includes Cal-Sites)	*Envirostor*	1-mile	0	
SLIC	*SLIC - Reg 5*	1/2-mile	5	
Cleaner Facilities	*Drycleaners*	1/4-mile	0	
HAZNET	*HAZNET*	1/4-mile	0	X
Local - County				
Sacramento County Contaminated Sites	*Sac Co CS*	1/2-mile	21	X
Sacramento County Master List	*Sac Co ML*	1/2-mile	22	X

Names and addresses of identifed facilities within the designated search radius can be found in Appendix E.
The full EDR Radius Map Report is included on the attached CD.

Database search based on EDR Radius Map Report 1857778.2s dated February 15, 2007

APPENDIX A

Resumes

BENJAMIN MCLERNON

SENIOR STAFF ENVIRONMENTAL SCIENTIST

Mr. McLernon, who has been with Wallace-Kuhl & Associates since May of 2000, started as the CAD Manager for the drafting department. During a very short time as the drafter, he performed the CAD drafting for all reports produced by Wallace-Kuhl & Associates. His dedication and genuine desire to improve productivity cut job turnaround time for drafting projects. He also assisted with Environmental Site Assessments (ESAs) and assisted project engineers with soil and core sampling for use in geotechnical reports. Mr. McLernon has brought this job dedication and experience to his current position within the company as an environmental specialist. He has completed numerous ESAs in at least seven California Central Valley counties, including ESAs for proposed school sites. Many of his projects have included Phase 2 assessments for persistent pesticide residuals and petroleum hydrocarbon contamination in soils and/or groundwater. Mr. McLernon's prior field reconnaissance experience in the U.S. Army lends itself well to the detailed observations, topographic map interpretations, and aerial photography interpretive skills that are necessary for thorough Phase 1 investigations. Mr. McLernon has a Bachelor of Arts degree in Environmental Studies with a minor in Biology from California State University Sacramento. Additionally, Mr. McLernon is 40-hour HAZWOPER certified and a member of the California Groundwater Resources Association.

HIGHER EDUCATION:

California State University, Sacramento
Bachelor of Arts, Environmental Studies
Minor in Biology (2006)

EXPERIENCE:

2/07 - Present	Wallace-Kuhl & Associates Sr. Staff Environmental Scientist
2/01 - 2/07	Wallace-Kuhl & Associates Staff Environmental Scientist
5/00 - 2/01	Wallace-Kuhl & Associates CAD Manager
5/97 - 5/00	Kern County Assessor Cadastral Map Drafting Technician

PROFESSIONAL REGISTRATION:

Registered Environmental Assessor I, No. 08137, California

PROFESSIONAL AFFILIATIONS:

Groundwater Resource Association of California

CERTIFICATIONS:

40-Hour HAZWOPER OSHA certification
Medic First Aid® Care Initiator (CPR Inclusive)

MAJOR PROJECTS:

Folsom Lake Nissan, Sacramento
Stardust 77-Acre Property, Lincoln
Major Retail Store, Orangevale
Yroz 1440-Acre Property, San Joaquin County
Orchard Pointe, Madera
Gunner Ranch, Madera County

SCOTT A. ARMSTRONG
SENIOR HYDROGEOLOGIST

Mr. Armstrong has over 17 years experience in various aspects of site assessments, compliance audits, subsurface investigations, and site remediation methodologies. As a Senior Hydrogeologist, Mr. Armstrong has managed and conducted all facets of site assessments and hydrogeologic characterizations, as well as development and implementation of site-specific remediation strategies for a wide variety of commercial and industrial facilities throughout California. Assessment activities included conducting Phase I and historical surveys, soil excavation and sampling, soil borings, soil-gas surveys, and the installation and sampling of groundwater monitoring and/or extraction wells. Remediation management at several of these facilities including the design, installation, and operation of combined vapor extraction/bioventing systems, product recovery and groundwater extraction systems, as well as air sparging and ozone injection systems to remediate soil and groundwater conditions.

HIGHER EDUCATION:

University of California, Santa Barbara
Bachelor of Arts, Geological Sciences (1987)

EXPERIENCE:

2006 - Present	Wallace-Kuhl & Associates, Inc. Senior Hydrogeologist
2004 - 2006	The RETEC Group, Inc. Senior Hydrogeologist, Operations Manager
1990 - 2004	LFR Levine·Fricke, Inc. Senior Hydrogeologist
1988 - 1990	TRC Environmental Consultants, Inc. Associate Project Hydrogeologist

PROFESSIONAL REGISTRATIONS:

Professional Geologist No 6787, California
Certified Hydrogeologist No. 630, California
Registered Environmental Assessor I No 04956, California
Certified Environmental Manager No. 2088; Nevada
Professional Geologist No. 196-000634, Illinois

MAJOR PROJECTS:

Brownfield Redevelopment, Stockton Waterfront, City of Stockton
Crystal Creamery, Sacramento
Natomas Unified School District, Preliminary Endangerment Assessment
R.H. Phillips Winery, Esparto
Brownfield Redevelopment, West Sacramento
New Facility Citing, Granite Construction, Sacramento

APPENDIX B

City of Sacramento
2006 Water Quality Consumer Confidence Report

INFORMATION YOU SHOULD KNOW ABOUT WATER

This Consumer Confidence Report (CCR) is a summary of results of tests conducted to detect contaminants in your drinking water. It has been provided to educate you, our customer, about the quality of your drinking water. Many tests were conducted and only those constituents detected are listed in this report.

The CCR includes a comparison of the detected chemicals in the City of Sacramento Department of Utilities' drinking water to the standards set by the State Department of Health Services (Department) and the United States Environmental Protection Agency (USEPA).

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the USEPA's Safe Drinking Water Hotline at (1-800-426-4791).

Your water meets or exceeds all federal and state drinking water standards

SPECIAL INFORMATION AVAILABLE

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. USEPA/ Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the USEPA's Safe Drinking Water Hotline (1-800-426-4791).

Printed on recycled paper. Each ton of recycled paper saves 7,000 gallons of water.

HELPFUL PHONE NUMBERS AND INFORMATION

The City of Sacramento Department of Utilities is dedicated to providing safe, reliable and environmentally sensitive water, drainage, sewer and flood control to our customers.

City of Sacramento Department of Utilities

Laboratory 808-3737
Customer Service 808-5454
City Operator (24 hours a day, 7 days a week) ... 264-5011
www.cityofsacramento.org

USEPA Safe Drinking Water Hotline... (800) 426-4791
www.epa.gov/OGWDW

The City Council holds public meetings most Tuesdays at 2 p.m. and 7 p.m. in the City Council Chambers at 915 I Street, Sacramento. You can access Council agendas at **www.cityofsacramento.org/clerk**.

本報告有關於您的飲用水的重要資料。請找人為您翻譯，或與能明白該報告的人交談。

Phúc trình này có các chi tiết quan trọng về nước uống của quý vị. Hãy nhờ người dịch cho quý vị, hoặc hỏi người nào hiểu rõ các chi tiết này.

Este informe contiene información importante sobre el agua que usted bebe. Pida a alguien que se lo traduzca o hable con alguien que lo entienda.

ລາຍງານນີ້ມີຂໍ້ມູນສຳຄັນກ່ຽວກັບນ້ຳປະປາຂອງທ່ານ. ຈົ່ງໃຫ້ຄົນອື່ນແປຄວາມໃຫ້ທ່ານ, ຫລືໃຫ້ປຶກສາກັບຄົນໃດຄົນນຶ່ງທີ່ເຂົ້າໃຈເລື້ອງ.

この報告書には私達の飲料水に関する重要な情報が記載されています。貴方のために翻訳してくれる人、あるいは内容を理解し説明してくれる人を見つけてください。

Tsab ntawv (report) no muaj cov kev qhia tseemceeb txog koj cov dej haus. Thov ib tus tibneeg pab txhais rau koj lossis nrog tej tus tibneeg uas totaub txog tsab ntawv no tham.

Ang report na ito ay naglalaman ng mahalagang impormasyon tungkol sa tubig na inyong iniinum. Magpatulong sa taong maaring magsalin, o makipag-usap sa taong nakakaunawa nito.

Данный рапорт содержит важную информацию о вашей питьевой воде. Переведите его или проконсультируйтесь с тем, кто его понимает.

CALL 916-808-5454
我們講中文 · Hablamos Español
Мы говорим по-русски · ພວກເຮົາເວົ້າພາສາລາວໄດ້
Peb hais lus Hmoob · Chúng tôi nói tiếng Việt

2006 CITY OF SACRAMENTO WATER QUALITY REPORT

A consumer confidence report for the citizens of Sacramento

Congratulations! Your water meets or exceeds all federal and state drinking water standards.

CITY OF SACRAMENTO
DEPARTMENT OF UTILITIES

TRADITION OF EXCELLENCE

Since its founding in 1849, the City of Sacramento has considered water quality of utmost importance. This Consumer Confidence Report is presented to enhance your understanding of where your water comes from and what it contains and to confirm that your drinking water continues to meet or exceed all state and federal drinking water standards.

The City of Sacramento Department of Utilities is committed to providing high quality, reliable, and environmentally sensitive water, sewer, and drainage services to the residents of Sacramento. In doing so, we work to conserve and preserve our water sources.

CALIFORNIA SOURCE WATER QUALITY

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Contaminants that may be present in source water include:

Microbial contaminants, such as viruses and bacteria, that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

Inorganic contaminants, such as salts and metals, that can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.

Pesticides and herbicides, that may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.

Organic chemical contaminants, including synthetic and volatile organic chemicals that are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, agricultural applications, and septic systems.

Radioactive contaminants, that can be naturally-occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, U.S. Environmental Protection Agency (USEPA) and the State Department of Health Services (Department) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. Department regulations also establish limits for contaminants in bottled water that must provide the same protection for public health.

SACRAMENTO'S WATER SOURCE ASSESSMENT

The City of Sacramento has two independent water sources. Our primary water source is river water from the American and Sacramento Rivers, which provide 85 percent of our water supply. Groundwater provides the remaining 15 percent. Assessments of potential contaminating activities for the City's Sacramento River and American River water sources were completed in December 2000 and April 2001, respectively. These reports indicated that both rivers are most vulnerable to contaminants from recreational activities and that the Sacramento River is also most susceptible to agricultural contaminants.

An assessment of the City's groundwater wells was completed in December 2002. One well is considered most vulnerable to activities associated with a contaminant detected in the water it produces, including automotive services. In addition, due to the proximity to potential contaminant sources, the wells north of the American River are considered most vulnerable to sewer collection systems, leaking underground storage tanks, known contaminant plumes, agricultural drainage, gas stations, dry cleaners, metal plating and chemical processing storage facilities, electrical/electronic manufacturing, and automobile body shops. Wells south of the American River are considered vulnerable to leaking underground storage tanks and sewer collection systems. Copies of the complete assessments are available for review at the Department of Utilities, 1395 35th Avenue, Sacramento, CA or call 808-5454 to request a summary of the assessments.

TEAMWORK — TOGETHER WE CAN PROTECT OUR WATER RESOURCES

The City of Sacramento Department of Utilities works hard to bring you quality drinking water. Please be careful as you live, work and play to limit what goes into the storm drains and rivers, so we can continue to preserve the quality of the water and our diverse river ecosystem.

Here are some ways that you can help preserve and conserve our water resources.

Fill It Up. Use your dishwasher and washing machine only for full loads.

Go Green. Purchase household and garden products that are "least toxic" to the environment.

Look for Leaks. Inspect and maintain your car regularly to prevent leaks of oil, antifreeze and other fluids. Also, conserve water by fixing leaks around your home and yard.

Apply when Dry. Do not apply lawn or garden products when rain is forecasted and do not over-water your lawn.

Pick-up After Yourself and Your Pets. Pick up your trash and put recycling in an appropriate bin. Shovel up animal wastes, seal it in bags and throw it away in a garbage can. Also, when visiting our rivers, be sure to use a public restroom or if your boat has a restroom, be sure to use a pumpout station to dispose of sewage safely.

Slow the Flow. Use a low-flow hose nozzle when landscaping and only water on your assigned day. Also use a low-flow showerhead and take showers instead of baths.

Spend Time in the Gutter. Keep the gutters clear of debris and lawn clipping to prevent clogging of storm drains. If you are putting out yard clippings for pick-up, sweep them into the street.

Join the Team. Volunteer to stencil storm drains in your neighborhood with "No Dumping Flows to River" message by calling 808-4H20.

WATER QUALITY ANALYSIS RESULTS FOR 2006

The following table shows the detected contaminants in your drinking water and compares them with drinking water standards set by United States Environmental Protection Agency (USEPA) and the State Department of Health Services (Department). To request a complete report, including non-detected items, please call (916) 808-3737.

Your water meets or exceeds all current federal and state requirements

DETECTED PRIMARY DRINKING WATER CONSTITUENTS regulated to protect your health									
				Surface Water		Ground Water			
Constituent	Units	PHG or (MCLG) or [MRDLG]	MCL or [MRDL]	Range	Average	Range	Average	Year of Sampling	Major Sources
Arsenic	PPB	0.004	10	ND-ND	ND	ND-5.9	2.4	2006	Erosion or leaching of natural deposits
Barium	PPM	2	1	ND-ND	ND	ND-0.21	0.13	2005-2006	Erosion or leaching of natural deposits
Chromium (total)	PPB	(100)	50	ND-ND	ND	ND-21	ND	2005-2006	Erosion or leaching of natural deposits
Fluoride (a)	PPM	1	2	ND-1.89	0.83	0.14-1.46	0.96	2005-2006	Water additive that promotes strong teeth
Nitrate (as nitrate)	PPM	45	45	ND	ND	ND-14	6.3	2006	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
Tritium	pCi/L	400	20000	1211-1233	1222	NR	NR	1999-2000	Decay of natural and man-made products
Chlorine (distribution system)	PPM	[4]	[4.0]	0.01-1.13	0.56	0.01-1.13	0.56	2006	Drinking water disinfectant added for treatment
Total Trihalomethanes (distribution system)	PPB	N/A	80	22-81	50	ND-58	4.5	2006	By-product of drinking water chlorination
Haloacetic Acids (distribution system)	PPB	N/A	60	20-49	31	ND-38	3.0	2006	By-product of drinking water chlorination
Control of Disinfection By-Product precursors (TOC) (raw) (b)	PPM	N/A	treatment requirement if average TOC>2	0.87-3.7	1.5	NR	NR	2006	Various natural and manmade sources

		PHG or	MCL or	Surface Water	Ground Water		
	Units	(MCLG)	(MRDL)	Level Found	Level Found	Year of Sampling	Major Sources
Total Coliform Bacteria	% samples positive	(0)	more than 5.0% of monthly samples are positive	0.43%	0.43%	2006	Naturally present in the environment
Turbidity (c)	NTU	N/A	TT = 1 NTU	0.14	NR	2006	Soil runoff
		N/A	TT =95% of samples ≤0.3 NTU	100%	NR		

DETECTED SECONDARY DRINKING WATER CONSTITUENTS regulated for aesthetic qualities									
				Surface Water		Ground Water			
Constituent	Units	PHG or (MCLG)	MCL	Range	Average	Range	Average	Year of Sampling	Major Sources
Chloride	PPM	NONE	500	1.14-9.2	5.4	13-94	39	2005-2006	Erosion or leaching of natural deposits
Color	UNITS	NONE	15	1-1	1	1-1	1	2005-2006	Naturally occurring organic materials
Specific Conductance	uS/CM	NONE	1600	0.83-169	120	235-757	393	2005-2006	Substances that form ions when in water
Sulfate	PPM	NONE	500	5.4-19	11	3-24	9	2005-2006	Erosion or leaching of natural deposits
Total Dissolved Solids (TDS)	PPM	NONE	1000	10-113	81	189-493	276	2005-2006	Erosion or leaching of natural deposits
Turbidity	NTU	NONE	5	ND-0.14	0.04	0.05-0.64	0.16	2005-2006	Soil runoff

DETECTED UNREGULATED DRINKING WATER CONSTITUENTS (d)									
				Surface Water		Ground Water			
Constituent	Units	PHG or (MCLG)	MCL	Range	Average	Range	Average	Year of Sampling	Major Sources
Chromium VI (Hexavalent chromium)	PPB	NONE	No Standard	ND	ND	1.0-12.6	5.6	2002	Erosion or leaching of natural deposits
Radium 228	pCi/L	0.019	No Standard	ND	ND	ND-2.94	ND	2003-2006	Erosion of natural deposits
Hardness	PPM	NONE	No Standard	21-64	44	74-312	137	2005-2006	Hardness is the sum of polyvalent cations present in the water, generally naturally occurring magnesium and calcium.
Sodium	PPM	NONE	No Standard	1.8-7.1	4.5	16-43	26	2005-2006	Naturally occurring salt in the water
Calcium	PPM	NONE	No Standard	8-19	14	15-65	29	2005-2006	Erosion or leaching of natural deposits
Magnesium	PPM	NONE	No Standard	1.4-5.4	3.4	8.2-41	16	2005-2006	Erosion or leaching of natural deposits

(a) The City's fluoridation program provides the addition of fluoride to all the City's drinking water. The City adjusts the natural levels of fluoride in our water supplies to the Department recommended optimal level.

(b) Only surface water sources must monitor for DBP Precursors in raw water.

(c) Only surface water sources must comply with PDWS for turbidity.

(d) Unregulated contaminant monitoring helps determine where certain contaminants occur and whether they need to be regulated.

The State allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data, though representative, are more than one year old.

IMPORTANT DEFINITIONS

Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHG (or MCLGs) as is economically and technologically feasible. Secondary MCLs are set to protect the odor, taste, and appearance of drinking water.

Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by the U.S. Environmental Protection Agency.

Maximum Residual Disinfectant Level (MRDL): The level of a disinfectant added for water treatment that may not be exceeded at the consumer's tap.

Maximum Residual Disinfectant Level Goal (MRDLG): The level of disinfectant added for water treatment below which there is no known or expected risk to health. MRDLGs are set by the U.S. Environmental Protection Agency.

Primary Drinking Water Standard (PDWS): MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.

Public Health Goal (PHG): The level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are set by the California Environmental Protection Agency.

Regulatory Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

Treatment Technique (TT): A required process intended to reduce the level of a contaminant in drinking water.

WATER QUALITY TABLE ABBREVIATIONS

N/A: Not applicable

ND: Not detectable at reporting limit

NR: Not required

NTU: Nephelometric Turbidity Units. Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of the effectiveness of our filtration system.

PPB: Parts per billion or micrograms per liter

PPM: Parts per million or milligrams per liter

PCi/L: Picocuries per liter is a measure of radioactivity

µS/CM: Microsiemens per centimeter

WHAT YOU SHOULD KNOW ABOUT...

Radon

Radon is a radioactive gas that you cannot see, taste or smell. Radon is found throughout the United States and can move up through the ground and into a home though cracks and holes in the foundation. Tap water may also release radon into the air in your home when showering, washing dishes or performing other household activities. Radon entering the home through tap water will, in most cases, be a small source of radon. Breathing air containing radon may lead to lung cancer and drinking water containing radon may cause increased risk of stomach cancer.

If you are concerned about radon in your home, testing is easy and inexpensive. There are simple, low cost ways to fix a radon problem. If the level of radon in your air is 4 picocuries per liter of air (pCi/L) or higher. Average radon levels in the City's groundwater supply between 1999 and 2000 ranged from 306 to 730 picocuries per liter, which is equal to less than 1 picocurie per liter in the air. For additional information, call the State Radon Program at (800) 745-7236 or the USEPA's Radon Hotline at (800) SOS-RADON.

Cryptosporidium

Cryptosporidium is a disease-causing micro-organism found in surface waters throughout the United States that can be transmitted through ingestion of contaminated food, drinking water, recreational waters, or fecal material. Our monitoring indicates the infrequent presence of this micro-organism in our untreated river water. Current test methods do not allow us to determine if the microorganisms are dead or if they are capable of causing disease. Although filtration methods cannot guarantee 100 percent removal, the City's treatment process is expected to remove over 99 percent of these microorganisms.

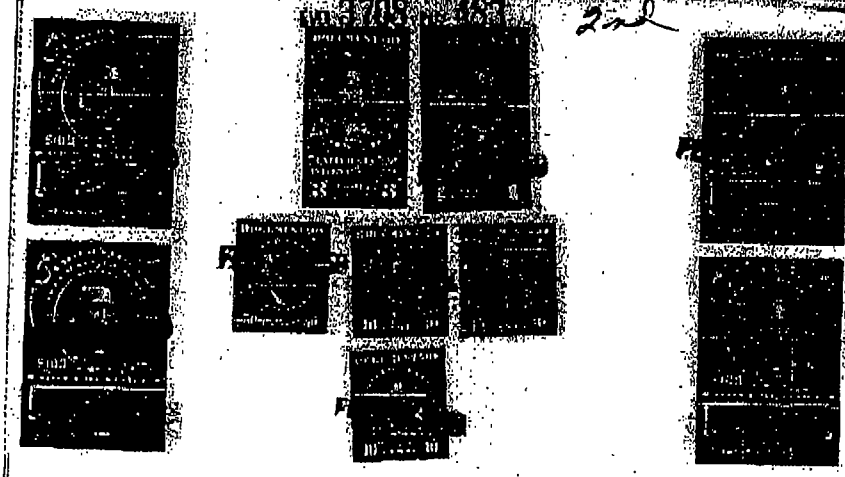
Ingestion of *Cryptosporidium* may cause cryptosporidiosis, an abdominal infection with symptoms that include nausea, diarrhea, and abdominal cramps. Most healthy individuals can overcome the disease within a few weeks. However, immuno-compromised people are at greater risk of developing life-threatening illnesses. We encourage immuno-compromised individuals to consult their doctor regarding appropriate precautions to take to avoid infection.

Arsenic

While your drinking water meets the current EPA standard for arsenic, it does contain low levels of arsenic. The standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water. The California Department of Health Services continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.

APPENDIX C

City of Sacramento Building Permits



2nd

SEND DOCUMENT TO: Edgar G. Boyles Room 509 926 J Bldg

GRANT DEED

CARL VERNON HANSEN and ALICE V. HANSEN, his wife, grant to CRYSTAL CREAM & BUTTER CO., a corporation, an undivided one-sixth interest,

and

KENNETH HANSEN and LUCILLE HANSEN, his wife, grant to CRYSTAL CREAM & BUTTER CO., a corporation, an undivided one-sixth interest,

and

GERALD HANSEN and BARBARA JEANNE HANSEN, his wife, grant to CRYSTAL CREAM & BUTTER CO., a corporation, an undivided one-sixth interest,

in all that certain real property situate in the City of Sacramento, County of Sacramento, State of California, more particularly described as follows:

PARCEL 1: Lots 5, 6, 7 and 8 in the Block bounded by C and D and 10th and 11th Streets according to the official map or plan of said city.

PARCEL 2: Lot 1 in the Block bounded by C and D and 10th and 11th Streets according to the official map or plan of said city.

17277

FEB 24 1950

INDEXED

PARCEL 8: The South 100 feet of Lot 2 in the Block bounded by C and D and 10th and 11th Streets according to the official map or plan of said city.

WITNESS our hands this 9th day of February, 1959.

Carl Vernon Hansen
Carl Vernon Hansen

Lucille Hansen
Lucille Hansen

Alice V. Hansen
Alice V. Hansen

Gerald Hansen
Gerald Hansen

Kenneth Hansen
Kenneth Hansen

Barbara Jeanne Hansen
Barbara Jeanne Hansen

STATE OF CALIFORNIA)
: ss.
COUNTY OF SACRAMENTO)

On this 9th day of February, 1959, before me, EDGAR A. BOYLES, JR., a Notary Public in and for the County of Sacramento, State of California, residing therein, duly commissioned and sworn, personally appeared CARL VERNON HANSEN, ALICE V. HANSEN, KENNETH HANSEN, LUCILLE HANSEN, GERALD HANSEN and BARBARA JEANNE HANSEN known to me to be the persons whose names are subscribed to the within instrument, and acknowledged to me that they executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal in the County of Sacramento the day and year in this certificate first above written.

VOL 3708 PAGE 483
OFFICIAL RECORDS
SACRAMENTO COUNTY, CALIF.
RECORDED AT REQUEST OF
Edgar A. Boyles
1959 FEB 24 PM 3 14

Edgar A. Boyles
Notary Public in and for the County of Sacramento, State of California.

My Commission Expires:
November 29, 1961 SEAL

COUNTY RECORDER

-2-

FEE $2.80

17277

APPENDIX D

The EDR® Environmental Lien Search Report

The EDR Environmental LienSearch™ Report

CRYSTAL CREAMERY
SACRAMENTO COUNTY
SACRAMENTO, CA 95814

Project Number: 01857778.7

February 27, 2007

EDR® Environmental Data Resources Inc

NCO℠

The Standard in Environmental Risk Information

440 Wheelers Farm Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

EDR Environmental LienSearch™ Report

The EDR Environmental LienSearch Report includes results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers follows established procedures to:

- search for parcel information, legal description, and ownership based on client supplied address information;
- research indexes and title repositories;
- obtain a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument (title, parties involved, and description); and
- provide a copy of the deed.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EDR Environmental LienSearch™ Report

TARGET PROPERTY INFORMATION

ADDRESS

CRYSTAL CREAMERY
1013 D STREET
SACRAMENTO, CA 95814

RESEARCH SOURCE

Sources: Sacramento County

DEED INFORMATION

Type of Deed: WD ☐ QCD ☐ Other ☒ DEED

Title is vested in: Crystal Cream & Butter Company, a corporation

Title received from: Carl Vernon Hansen and Alice V. Hansen, his wife an undivided one-sixth interest; Kenneth Hansen and Lucille Hansen, his wife, an undivided one-sixth interest; and Gerald Hansen and Barbara Jeanne Hansen, his wife, an undivided one-sixth interest

Deed Dated: February 9, 1959
Deed Recorded: February 24, 1959
Book: 3708
Page: 443

LEGAL DESCRIPTION

Description: Legal attached as Exhibit "A."

Assessor's Parcel Number: 002-0076-007 (conveyed parcel 1 consisting of lot 5,6,7&8 and parcel 2 consisting of lot 1)

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

If yes:

1st Party:

2nd Party:

Dated:
Recorded:
Book:
Page:
Comments:

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AUL's: Found ☐ Not Found ☒

EDR Environmental LienSearch™ Report

EXHIBIT A

Wallace Kuhl
& ASSOCIATES INC

Subsurface Investigation Report of Findings

CRYSTAL CREAM & BUTTER COMPANY

Sacramento, California

WKA No. 7528.04

August 8, 2007

Prepared for:

Metro Nova Communities of Sacramento, LLC

PO Box 148

Rancho Santa Fe, California 90267

Prepared By:

Wallace-Kuhl & Associates, Inc.

3251 Beacon Boulevard, Suite 300

West Sacramento, California 95691

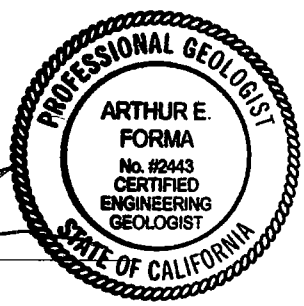
Wallace Kuhl
& ASSOCIATES INC

SUBSURFACE INVESTIGATION
REPORT OF FINDINGS

CRYSTAL CREAM & BUTTER COMPANY
Sacramento, California
WKA No. 7528.04

This Subsurface Investigation Report of Findings for Crystal Cream & Butter Company in Sacramento, California was prepared by Wallace-Kuhl & Associates, Inc. on behalf of Meridian Development LLC in a manner consistent with the level of care and skill ordinarily exercised by professional geologists and environmental scientists. This report was prepared under the technical direction of a California Professional Geologist.

WALLACE-KUHL & ASSOCIATES, INC.



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SUBSURFACE INVESTIGATION
REPORT OF FINDINGS

TABLE OF CONTENTS

1.0 INTRODUCTION 1
2.0 OBJECTIVE 1
3.0 SITE DESCRIPTION 1
3.1 Physiographic and Hydrogeologic Setting 2
3.2 Recognized Environmental Conditions 3
3.2.1 UST Descriptions 3
4.0 INVESTIGATION ACTIVITIES 5
4.1 Soil Borings 5
4.2 Disclosure Meeting with SCEMD 5
4.3 Exploratory Trenching 7
4.4 Additional Soil Borings 7
4.5 Monitoring Well Installation, Development, and Sampling 7
4.5.1 Soil Sampling 8
4.5.2 Monitoring Well Construction 8
4.5.3 Monitoring Well Development 9
4.5.4 Monitoring Well Sampling 9
4.5.5 Monitoring Well Survey 10
5.0 RESULTS AND FINDINGS 10
5.1 Subsurface Observations 10
5.2 UST and REC Analytical Results 10
5.3 Groundwater Monitoring at Tank M 14
5.4 Monitoring Well Groundwater Sample Analysis Results 15
5.5 Data Quality 15
6.0 CONCLUSIONS 17
7.0 RECOMMENDATIONS 21
8.0 LIMITATIONS 21

SUBSURFACE INVESTIGATION
REPORT OF FINDINGS

TABLE OF CONTENTS (cont.)

Figures

1 Vicinity Map
2 Site Plan
3 Site Plan – Tank M Detail
4 Site Plan – Exploratory Trenching
5 Potentiometric Surface Map – June 15, 2007
6 Potentiometric Surface Map – July 6, 2007

Tables

1 Well Construction Details
2 Summary of Groundwater Elevation Data
3 Analytical Suite Table
4 Summary of Analytical Results for Soil Samples
5 Summary of Analytical Results for Grab Groundwater Samples
6 Summary of Analytical Results for Soil Samples – CAM 17 Metals
7 Summary of Analytical Results for Groundwater Samples

Appendices

A Soil Boring Logs and Well Construction Details
B Well Purge Data Sheets
C Laboratory Analytical Reports and Chain-of-Custody Documentation

SUBSURFACE INVESTIGATION
REPORT OF FINDINGS

CRYSTAL CREAM & BUTTER COMPANY
Sacramento, California
WKA No. 7528.04

1.0 INTRODUCTION

This report documents the subsurface investigation performed in the vicinity of the existing and former underground storage tanks (USTs) located Crystal Cream & Butter Company in Sacramento, California (Figure 1). The purpose of the investigation was to evaluate soil and groundwater for possible contamination related to former and current site activities. The scope of work for this subsurface investigation was outlined in our Phase 1 Environmental Site Assessment (ESA) dated August 1, 2007 and in a meeting between Wallace-Kuhl & Associates, Inc. (WKA) and Sacramento County Environmental Management Department (SCEMD) on May 14, 2007.

2.0 OBJECTIVE

The objective of this subsurface investigation was to confirm and further delineate the extent of known hydrocarbon contamination in both soil and groundwater, as well as investigate Recognized Environmental Conditions (RECs) outlined in the Phase 1 ESA dated August 1, 2007. This work was also conducted to further assess subsurface conditions identified during initial assessment of the site conducted by WKA in April 2007. The RECs identified in the Phase I ESA includes 13 existing or former USTs, a hydraulic lift, an oil/water separator, a paint booth, and two suspected mechanic's pits. Initial sampling activities were conducted on April 10 and 11, 2007 while further investigative work was requested by SCEMD as discussed in a meeting on May 14, 2007.

3.0 SITE DESCRIPTION

The site is located at 1013 D street in downtown Sacramento. The site is located in a mixed use area containing residential housing, commercial, and industrial businesses. The site is composed of four general areas: corporate offices, manufacturing areas, a maintenance shop, and warehouses related to the dairy products produced by Crystal Cream and Butter Company. The site is bounded

to the north by the former Southern Pacific Rail Yard, to the west by 10th Street, to the east by 11th Street, and to the south by E Street (Figure 1 and 2). The site covers approximately 3 ½ city blocks, and has had 13 existing or former USTs used for the storage of diesel fuel, gasoline, bulk oil, and waste oil.

3.1 Physiographic and Hydrogeologic Setting

The site is located in the central portion of the Great Valley geomorphic province of California and is located within the Sacramento River Hydrologic Basin, as defined by the California Department of Water Resources (DWR). The Great Valley lies between the mountains and foothills of the Sierra Nevada Range to the east and the California Coast Ranges to the west. The geologic formations of the Great Valley are typified by thick sequences of alluvial (river) sediments deposited during the filling of a large ancient basin.

The 1985 USGS *Geologic Map of the Late Cenozoic Deposits of the Sacramento Valley and Northern Sierra Foothills, California*, shows the site to be underlain by Holocene (less than 11,000 years old) alluvial deposits, consisting of unweathered gravel, sand, silt and clay deposited by present-day stream and river systems that drain the coast ranges, Sierra Nevada and the Klamath Mountains. These deposits form levees along the main course of the Sacramento and American Rivers, and broad alluvial fans of low surface relief along the western and southwestern side of the valley. Thickness of the deposits varies from a few inches to 30 feet.

Review of the Spring 2003 Sacramento County Department of Public Works *Ground Water Elevations Map* reveals that regional groundwater flow direction in the area of the site is predicted to be towards the southeast. The estimated depth-to-first water beneath the site is estimated from the Ground Water Elevations Map to be approximately 15 feet below ground surface (bgs). Regional groundwater flow direction can be affected by stage fluctuation of the nearby Sacramento and American Rivers, groundwater pumping, seasonal storms, and other factors.

The site and surrounding areas are flat; surface elevation on site is approximately 25 feet above mean sea level (msl), except for the former Southern Pacific Rail Yard, which is approximately 8 feet higher than the surrounding land.

3.2 Recognized Environmental Conditions

The Recognized Environmental Conditions (RECs) identified in the Phase 1 ESA includes the 13 existing or former underground storage tanks (UST), a hydraulic lift, an oil/water separator, a paint booth, and two suspected mechanic's pits. Below are descriptions for the 13 identified USTs at or formerly at the site.

3.2.1 UST Descriptions

Based on the results of historical research and regulatory agency records review, the following provides details for the 13 existing or former USTs (identified as A through M) associated with Crystal Cream & Butter Company, as shown on Figure 2:

- Tank A
  - 8,000-gallon diesel fuel UST removed under SCEMD permit in 1990
  - Contaminated soil excavated at the time of UST removal
  - No groundwater sample obtained during UST removal
- Tank B
  - 12,000-gallon diesel fuel UST removed in under SCEMD permit in 1998
  - In Local Oversight Program overseen by SCEMD
  - Submitted to SCEMD for no further action in February 2007
- Tank C
  - 10,000-gallon diesel fuel UST removed in under SCEMD permit in 1998
  - In Local Oversight Program overseen by SCEMD
  - Submitted to SCEMD for no further action in February 2007
- Tank D
  - Unknown capacity and date of abandonment
  - Abandoned in-place by filling with cement slurry mixture
  - No permit or abandonment records found at SCEMD
  - Location beneath existing electric transformers
- Tank E
  - 1,500-gallon bulk oil UST, current status unknown
  - Identified on a 1915 Sandborn® Fire Insurance Map

  - No permit or abandonment records found at SCEMD
  - Location beneath existing sidewalk and building
- Tank F
  - 500-gallon gasoline UST
  - Abandoned in-place by filling with cement slurry mixture, date unknown
  - No permit or abandonment records found at SCEMD
  - Location beneath existing sidewalk and building
- Tank G
  - 10,000-gallon diesel fuel UST removed under SCEMD permit in 1992
  - SCEMD issued no further action letter in October 1992
  - No groundwater sample obtained during UST abandonment
- Tank H
  - 12,000-gallon diesel fuel UST removed under SCEMD permit in 1992
  - SCEMD issued no further action letter in October 1992
  - No groundwater sample obtained during UST abandonment
- Tank I
  - 8,000-gallon bulk oil UST removed under SCEMD permit in 1998
  - Removed in 1998 at the same time as Tanks B, C, and J
- Tank J
  - 2,000-gallon waste oil UST removed under SCEMD permit in 1998
  - Removed in 1998 at the same time as Tanks B, C, and I
- Tank K
  - 10,000-gallon diesel fuel UST removed under SCEMD permit in 1991
  - SCEMD issued no further action letter in October 1992
  - No groundwater sample obtained during UST abandonment
- Tank L
  - 20,000-gallon diesel fuel UST currently in use and properly permitted though SCEMD
- Tank M
  - Unknown capacity and date of removal
  - Former gasoline service station identified from aerial photographs
  - No permit or abandonment records found at SCEMD

4.0 INVESTIGATION ACTIVITIES

4.1 Soil Borings

On April 10 and 11, 2007, WKA advanced 14 direct-push borings and 5 hand-auger borings at the locations indicated on Figure 2 (borings B1 through B19). The purpose of this sampling was to collect soil and grab groundwater samples for further evaluation of the identified RECs. The direct push borings were advanced past first groundwater occurrence at approximately 16 feet bgs and ranged in depth from approximately 20 to 24 feet bgs. The hand-auger borings ranged between 3 and 5 feet bgs in depth.

Soil samples were collected from the vadose zone immediately above static groundwater levels measured in each of the borings. The soil samples were sealed at both ends with Teflon tape, capped, and placed in an ice chest containing ice to reduce the possibility of contaminant volatilization. Upon encountering groundwater, a grab groundwater sample was obtained using a new disposable bailer from each of the borings. Grab groundwater samples were decanted into analyte-specific containers provided by the laboratory and placed in an ice chest containing ice for transportation to the analytical laboratory.

The select soil and grab groundwater samples were submitted to a California-certified laboratory under chain-of-custody documentation for analysis of the following:

- Total petroleum hydrocarbons-as-Diesel (TPHd), and total petroleum hydrocarbons-as-motor oil (TPHmo), using EPA Method 8015M.
- Volatile Organic Compounds (VOCs) including total petroleum hydrocarbons-as-gasoline (TPHg) and methyl-tert-butyl ether (MTBE) using EPA method 8260B.
- CAM 17 Metals using EPA 6000/7000 Series.
- Polychlorinated biphenyls (PCBs) using EPA Method 8082.
- Polynuclear Aromatic Hydrocarbons (PAHs) using EPA Method 8270C.

4.2 Disclosure Meeting with SCEMD

On May 14, 2007, WKA met with representatives of SCEMD to present and discuss the results of the subsurface investigation performed on April 10 and 11, 2007 and to discuss the RECs

identified in the Phase I ESA. Representatives of SCEMD had the following recommendations regarding the 13 former and existing USTs and the results of the initial subsurface investigation:

- Tank A
  - Collect one downgradient grab groundwater sample northwest of the UST
  - Submit the grab grounwatersample for analysis of TPHd and TPHmo with the sample to be centrifuged to remove suspended sediment
- Tanks B & C
  - Pending review of no further action request in February 2007
- Tank D
  - Upon removal of the electrical equipment, confirm proper abandonment and fate of the UST and associated piping in accordance with current regulatory standards
- Tanks E & F
  - Upon removal of the existing building and subsequent property improvements, remove the UST in accordance with current regulatory standards
- Tanks G & H
  - Collect two downgradient grab groundwater samples south and southwest of the former USTs
  - Submit the grab groundwater samples for analysis of TPHd and TPHmo with the sample to be centrifuged to remove suspended sediment
- Tanks I & J
  - Considered closed by SCEMD
  - Removed at the same time as Tanks B & C which are the subject of the SCEMD interest and will be formerly closed with Tanks B & C
- Tank K
  - October 1992 No Further Action Letter is still valid, UST case not needed to be re-opened
- Tank L
  - Once UST is no longer in use, properly abandon under SCEMD permit
- Tank M
  - Determine the fate of the suspected UST area by exploratory trenching
  - Install 3 groundwater monitoring wells

- Collect two rounds of sampling with laboratory analysis for TPHd, TPHmo, TPHg, the seven fuel oxygenates including MTBE, VOCs, and PAHs

4.3 Exploratory Trenching

On May 30, 2007, WKA constructed exploratory trenches in the vicinity of soil borings B1 through B5 at the former gasoline service station location (Figure 4), for the purpose of determining the fate of Tank M. The trenches were advance to a depth of approximately 5 feet bgs to uncover the top of the UST if still present and to identify the presence of fill material to indicate the former tank pit area.

4.4 Additional Soil Borings

On June 7, 2007 WKA advanced three soil borings, one boring in the vicinity of Tank A (B20), and two in the vicinity of Tanks G and H (B21 and B22) (Figure 2). The purpose of these borings was to further delineate the extent of hydrocarbon contamination in soil and groundwater, which was identified during WKA's initial assessment conducted in April 2007. This work was at the direction of SCEMD in a meeting on May 14, 2007. The direct push borings were advanced to first groundwater occurrence, ranging in depth from approximately 15 to 16 feet bgs. Total depth of the borings ranged between 20 and 24 feet bgs.

Upon encountering groundwater, a grab groundwater sample was obtained using a new disposable bailer from each of the three borings. The grab groundwater samples were decanted into analyte-specific containers provided by the laboratory and placed in an ice chest containing ice for transportation to the analytical laboratory.

The grab groundwater samples were submitted to a California-certified laboratory under chain-of-custody documentation for analysis of the following:

- TPHd and TPHmo using EPA Method 8015M.

4.5 Monitoring Well Installation, Development, and Sampling

On June 8, 2007, three soil borings were advanced by V&W Drilling, Inc. using a drill rig equipped with 8-inch diameter hollow stem augers. Each soil boring was cleared of underground

utilities to 5 feet bgs with a hand auger prior to advancing drilling equipment. Each soil boring was then converted into a groundwater monitoring well upon reaching 26.5 feet bgs. Groundwater was encountered at depths ranging from approximately 13 to 16 feet bgs.

During drilling and sampling, subsurface soils encountered were described and recorded in the field under the direct supervision of a California Professional Geologist, using the Unified Soil Classification System (USCS). Descriptions of the materials encountered during drilling and well construction details are included in Appendix A.

4.5.1 Soil Sampling

During drilling of the soil borings for this investigation soil samples were collected at approximately 5-foot intervals. These samples were observed for lithology and retained for possible analysis. In each boring, one sample was collected from the vadose zone at approximately 5 feet bgs, one sample was collected from first encountered water, and one sample was obtained from the bottom of the soil boring.

Drilling equipment was steam cleaned prior to use in each boring. Steam-cleaning rinsate was contained in a steam cleaning rack/collection system, transferred to a sealed, labeled DOT approved 55-gallon drum, and stored on-site for subsequent disposal. Soil cuttings generated during drilling were also placed in sealed, labeled Department of Transportation (DOT) approved 55-gallon drums and stored on-site for subsequent disposal.

4.5.2 Monitoring Well Construction

On June 8, 2007, monitoring wells MW1 through MW3 were installed in the suspected Tank M area of the former service station located on the southeastern portion of the site. Monitoring wells MW1 through MW3 were installed to approximately 25 feet bgs at the locations indicated on Figure 3. Each well was constructed using 2-inch diameter, Schedule 40 PVC casing with a 0.010-inch machine-cut screen placed from 10 to 25 feet bsg. A filter pack consisting of #2/12 Monterey sand was placed in the well annulus from 8 to 26.5 feet bgs in each well. Bentonite chips were placed from 6 to 8 feet bgs and then hydrated. The remainder of the well annulus was filled to the surface with neat-cement slurry. The monitoring wells were completed with a flush-mounted, traffic-rated, well vault. Well construction details for MW1, MW2, and MW3 are included in Appendix A and summarized on Table 1.

4.5.3 Monitoring Well Development

On June 11, 2007, WKA developed the newly installed monitoring wells MW1, MW2, and MW3. Each well was first surged and then purged using an electric submersible pump and/or disposable bailer until at least five well volumes of groundwater were removed. Temperature and pH, readings were recorded during the development process to evaluate purge water for stable conditions. Water removed during sampling was sealed in labeled DOT approved 55-gallon drums and stored on-site. Monitoring well development field forms are presented in Appendix B.

4.5.4 Monitoring Well Sampling

An initial round of groundwater sampling of the newly installed groundwater monitoring wells (MW1, MW2, and MW3) was conducted on June 15, 2007. A second round of sampling was conducted on July 6, 2007. Both groundwater sampling events were conducted using identical procedures.

At each sampling location, groundwater level measurements were obtained and the groundwater was checked for the presence of free-floating hydrocarbons using new clear disposable polyethylene bailers. Each well was then purged until relatively free of sediment and/or until stabilized pH, temperature, and conductivity readings were obtained after at least three well volumes of groundwater were removed.

Groundwater samples were then obtained from the wells using a new, clean, disposable bailer and decanted into appropriately preserved sample containers provided by the laboratory. The groundwater samples were immediately placed into an ice chest containing ice and submitted under chain-of-custody documentation to a California-certified laboratory for analysis. One groundwater sample from each of the newly installed monitoring wells (MW1, MW2, and MW3) were analyzed for the following:

- TPHd and TPHmo using EPA Method 8015M.
- TPHg, VOCs, and the seven fuel oxygenates including MTBE, diisopropyl ether (DIPE), ethyl-tert-butyl ether (ETBE), tert-amyl-methyl ether (TAME, tert-butanol (TBA), methanol, and ethanol using EPA Method 8260B.

- PAHs using EPA Method 8310.

All purge water removed during sampling was sealed in labeled DOT approved 55-gallon drums and stored on-site. Sampling location purge field forms are included in Appendix B.

4.5.5 Monitoring Well Survey

The new wells were surveyed on June 22, 2007 by Morrow Surveying, Inc. of West Sacramento, California a California-Professional Land Surveyor to the state plane coordinate system.

5.0 RESULTS AND FINDINGS

5.1 Subsurface Observations

Subsurface soils encountered the construction of the borings for MW1 through MW3 as well as those for the soil boring investigation consisted primarily of sandy silts and silty sands. No hydrocarbon odor was observed during drilling of the borings. Groundwater was encountered between 13 and 16 feet bgs in the soil borings.

The exploratory trenching performed in the vicinity of the former service station in the areas most likely to contain a UST revealed an area of fill containing concrete and other building debris large enough to consist of a previous small volume UST (up to 1,000-gallon capacity) (Figure 4). The debris within the possible tank pit included pieces of a former concrete slab, brick, and a base of a bullard, which is typically used for protection around fuel dispenser islands.

5.2 UST and REC Analytical Results

The following details only the analytes detected above reporting limits by the analytical laboratory for the soil and grab groundwater sample obtained from the soil borings for the subsurface investigation of the identified RECs including the USTs, the hydraulic lift, the oil/water separator, and the paint booth (Figure 2):

- Tank A:
  - Soil
    - No soil samples analyzed
  - Grab Groundwater
    - TPHd at a concentration of 75 micrograms per liter (µg/L) in B19-GW
    - TPHd at a concentration of 120 µg/L in B20-W
- Tank D:
  - Soil
    - No soil samples analyzed
  - Grab Groundwater
    - No analytes were detected above the laboratory reporting limits in B18-GW
- Tank E:
  - Soil
    - TPHd at a concentration of 14,000 milligrams per kilogram (mg/kg) in B17-11 obatined at 11 feet bgs
    - TPHmo at a concentration of 9,000 mg/kg in B17-11
    - Acenaphthylene at a concentration of 1.4 mg/kg in B17-11
    - Pyrene at a concentration of 3.8 mg/kg in B17-11
  - Grab Groundwater
    - No analytes were detected above the laboratory reporting limits in B17-GW
- Tank F:
  - Soil
    - TPHd at a concentration of 1.2 mg/kg in B16-10 obtained from 10 feet bgs
  - Grab Groundwater
    - TPHd at a concentration of 140 µg/L in B16-GW
    - Chloroform at a concentration of 0.71 µg/L in B16-GW
- Tanks G & H
  - Soil
    - No soil samples analyzed
  - Grab Groundwater
    - TPHd at a concentration of 340 µg/L in B11-GW

- TPHd at a concentration of 100 µg/L in B21-W
- TPHd at a concentration of 89 µg/L in B22-W

- Tank I:
  - Soil
    - No soil samples analyzed
  - Grab Groundwater
    - TPHd at a concentration of 190 µg/L in B12-GW
- Tank J:
  - Soil
    - No analytes were detected above the laboratory reporting limits in B7-10 obtained from 10 feet bgs
  - Grab Groundwater
    - No grab groundwater sample was obtained for laboratory analysis
- Tank K:
  - Soil
    - No soil samples analyzed
  - Grab Groundwater
    - TPHd at a concentration of 180 µg/L in B13-GW
- Tank L:
  - Soil
    - No soil samples analyzed
  - Grab Groundwater
    - TPHd at a concentration of 56 µg/L in B6-GW
    - Chloroform at a concentration of 10 µg/L in B6-GW
- Tank M:
  - Soil
    - TPHd at a concentration of 4.7 µg/L in B2-12 obtained from 12 feet bgs
    - TPHd at a concentration of 4.0 µg/L in B3-12 obtained from 12 feet bgs
    - TPHd at a concentration of 6.1 µg/L in B4-10 obtained afrom 10 feet bgs
  - Grab Groundwater
    - TPHd at a concentration of 570 µg/L (220 µg/L with silica gel cleanup) in B1-GW

- TPHd at a concentration of 570 µg/L (140 µg/L with silica gel cleanup) in B2-GW
- TPHd at a concentration of 250 µg/L in B3-GW
- TPHd at a concentration of 69 µg/L in B5-GW
- TPHmo at a concentration of 980 µg/L (500 µg/L with silica gel cleanup) in B1-GW
- TPHmo at a concentration of 1,800 µg/L (1,000 µg/L with silica gel cleanup) in B2-GW
- Naphthalene at a concentration of 1.2 µg/L in B2-GW
- Naphthalene at a concentration of 0.75 µg/L in B5-GW
- Chloroform at a concentration of 3.9 µg/L in B4-GW

- Hydraulic Lift:
  - Soil
    - TPHd at a concentration of 4.5 µg/L in B8-3 obtained from 3 feet bgs
    - No PCB analyte detected above the laboratory reporting limit in B8-3
    - Only Arsenic was reported above the applicable metals screening levels at a concentration of 8.64 mg/kg in B8-3
  - Grab Groundwater
    - No grab groundwater sample was obtained for laboratory analysis

- Oil/Water Separator:
  - Soil
    - TPHd at a concentration of 1.4 mg/kg in B10-11 obtained from 11 feet bgs
  - Grab Groundwater
    - TPHd at a concentration of 74 µg/L in B10-GW

- Paint Booth:
  - Soil
    - Only Arsenic was reported above the applicable regulatory screening levels for metals at a concentration of 8.42 mg/kg in B9-3
  - Grab Groundwater
    - No grab groundwater sample was obtained

- Suspected Mechanic's Pits
  - Soil
    - No analytes were detected above the laboratory reporting limits in B14-5 and B15-5 both obtained from 5 feet bgs
  - Grab Groundwater
    - No grab groundwater sample was obtained for laboratory analysis

A table indicating the analyses performed on the samples obtained from specific areas is presented on Table 3. A summary of the analytical data for the soil and grab groundwater samples obtained from the soil borings is presented on Tables 4, 5, and 6. Complete laboratory analytical reports and chain of custody documentation are included in Appendix C.

5.3 Groundwater Monitoring at Tank M

Groundwater conditions measured on June 15, 2007 within MW1, MW2, and MW3 are summarized as follows:

- Based on monitoring conducted, groundwater depth to water (DTW) at the site ranged from 17.42 feet below top-of-casing (btoc) in well MW3 to 17.90 feet btoc in well MW1;
- Groundwater elevations (GWE) based on the DTW measurements from the wells and surveyed btoc elevations ranged from 6.47 feet above mean sea level (msl) in MW3 to 6.54 feet msl in MW1;
- The apparent groundwater flow direction on June 15, 2007 was towards the south based on groundwater measurements; the gradient was calculated to be approximately 0.0019.

Figure 5 presents a groundwater elevation map of calculated groundwater elevations and apparent groundwater flow direction according to data collected in the field on June 15, 2007.

Groundwater conditions measured on July 6, 2007 within MW1, MW2, and MW3 are summarized as follows:

- Based on monitoring conducted, groundwater depth to water (DTW) at the site ranged from 17.92 feet below top-of-casing (btoc) in well MW3 to 18.37 feet btoc in well MW1;

- Groundwater elevations (GWE) based on the DTW measurements from the wells and surveyed btoc elevations ranged from 5.97 feet above mean sea level (msl) in MW3 to 6.07 feet msl in MW1;
- The apparent groundwater flow direction on June 15, 2007 was towards the south based on groundwater measurements; the gradient was calculated to be approximately 0.0026.

Figure 6 presents a groundwater elevation map of calculated groundwater elevations and apparent groundwater flow direction according to data collected in the field on July 6, 2007.

5.4 Monitoring Well Groundwater Sample Analysis Results

No analyte was detected above the laboratory reporting limits for the monitoring well groundwater samples obtained on June 25, 2007.

The following presents only the analyte detections and respective concentrations from the analyses conducted on the monitoring well groundwater samples collected on July 6, 2007:

- TPHd
  - MW1 at 260 µg/L
  - MW2 at 69 µg/L

A summary of the analytical data for the groundwater samples obtained from the monitoring wells is presented on Table 7. Complete laboratory analytical reports and chain of custody documentation are included in Appendix C.

5.5 Data Quality

All samples were received by the laboratory under documented chain-of-custody. United States Environmental Protection Agency SW-846 (EPA 2000) protocols for sample storage and preservation were followed. The results of analyses for these samples were not flagged for dilution or holding times.

Samples B1-GW and B2-GW were analyzed a second time after a being run through a silica gel cleanup for the purpose of reducing interference from other organic compounds.

Samples B20-W, B21-W and B22-W were centrifuged and decanted prior to extraction.

The laboratory reported the following anomalies based on their review of the chromatograms and the laboratory reports:

- "Hydrocarbons reported as TPH as Diesel do not exhibit a typical Diesel chromatographic pattern for samples B5-GW, B6-GW, B10-GW, B11-GW, B12-GW, B13-GW, B16-GW, and B19-GW. There are discrete peaks which may or may not be petroleum related."
- "Hydrocarbons reported as TPH as Diesel do not exhibit a typical Diesel chromatographic pattern for samples B1-GW, B2-GW, and B8-3. These hydrocarbons are higher boiling than typical diesel fuel. The chromatographic patterns for these samples are consistent with patterns observed in previous sampling events from permanent monitoring wells at this site."
- "Samples B2-12, B3-12, B4-10, B10-11, and B16-10 have reported values for TPH as Diesel but the concentrations are so low that the chromatographic patterns for these samples are not distinct enough to interpret."
- "Sample B17-11 was extracted out of hold time but the reported concentration should be reasonable representative; because, this range of hydrocarbons does not typically decompose appreciable when stored at 4 degrees Celcius. The chromatographic pattern for this sample may represent a fuel oil."
- "Matrix Spike/Matrix Spike Duplicate Results associated with sample B17-11 for the analyte TPH as Diesel were affected by the analyte concentrations already present in the un-spiked sample."
- "Hydrocarbons reported as TPH as Diesel do not exhibit a typical Diesel chromatographic pattern for samples B20-W, B21-W, and B22-W. There are discrete peaks which may or may not be petroleum related."

Based on the results of laboratory analyses and review of sampling procedures, laboratory quality assurance and quality control, and review of historical analytical results, the data appears adequate for the use intended.

6.0 CONCLUSIONS

The RECs identified in the Phase I ESA were used to focus subsurface assessment activities at the site. The findings of this assessment have been evaluated and do not appear to represent significant adverse impact groundwater beneath the Crystal Cream & Butter Company property. Based on the analytical results, low levels of TPHd and other hydrocarbon constituents were reported in groundwater in the vicinity of the former USTs and other identified RECs. In addition, subsurface soils do not appear to have been significantly impacted by the identified RECs except for in the vicinity of Tank E. The following provides conclusions on the individual RECs identified at the site:

- Tank A
    - Facts:
        - Soil was addressed in 1990 during the removal of the UST
        - Grab groundwater samples indicated trace concentrations of TPHd
        - MTBE, TPHg, and benzene were not reported in any of the samples
    - Conclusion:
        - Based on these findings this area does not appear to be warranted for further assessment
- Tank D
    - Facts:
        - MTBE, TPHg, TPHd, and benzene were not reported in any of the samples
        - Status and potential underlying impact of the UST is still in question
    - Conclusion:
        - See recommendations below

- Tank E
  - Facts:
    - Elevated concentrations of TPHd and TPHmo were reported in the soil sample
    - MTBE, TPHg, and benzene were not reported in any of the samples
    - Status and potential underlying impact of the UST is still in question
  - Conclusion:
    - See recommendations below
- Tank F
  - Facts:
    - Soil sample indicated trace concentrations of TPHd
    - Grab groundwater sample indicated trace concentrations of TPHd
    - MTBE, TPHg, and benzene were not reported in any of the samples
    - Status and potential underlying impact of the UST is still in question
  - Conclusion:
    - See recommendations below
- Tanks G & H
  - Facts:
    - Soil was addressed in 1992 during the removal of the USTs
    - Recent grab groundwater samples indicated trace concentrations of TPHd
    - MTBE, TPHg, and benzene were not reported in the samples analyzed
  - Conclusion:
    - Based on these findings this area does not appear to be warranted for further assessment
- Tanks I & J
  - Facts:
    - Considered closed by SCEMD based on May 14, 2007 meeting
    - MTBE, TPHg, and benzene were not reported in the samples analyzed
  - Conclusion:
    - Based on these findings this area does not appear to be warranted for further assessment

- Tank K
  - Facts:
    - Considered closed by SCEMD based on May 14, 2007 meeting
    - MTBE, TPHg, and benzene were not reported in the sample analyzed
  - Conclusion:
    - Based on these findings this area does not appear to be warranted for further assessment
- Tank L
  - Facts:
    - Recent grab groundwater sample indicated trace concentrations of TPHd
    - MTBE, TPHg, and benzene were not reported in the sample
  - Conclusion:
    - UST still in use and should be abandoned in accordance with SCEMD guidelines
- Tank M
  - Facts:
    - MTBE, PAHs, TPHg, and benzene were not reported in the monitoring well samples
    - Samples collected from the monitoring wells indicated only trace concentrations of TPHd in two wells during one event
  - Conclusions:
    - Based on these findings this area does not appear to be warranted for further assessment
    - Current monitoring wells associated with this area should be abandoned in accordance with SCEMD guidelines
- Hydraulic Lift
  - Facts:
    - Soil sample indicated a trace concentration of TPHd
    - Soil sample also indicated Arsenic above applicable screening levels, however the reported concentration is normal for background soil in California
    - MTBE, TPHg, PCBs, and benzene were not reported in the sample analyzed

- Conclusion:
  - Based on these findings this area does not appear to be warranted for further assessment

- Oil/Water Separator
  - Facts:
    - Soil sample indicated a trace concentration of TPHd
    - Recent grab groundwater sample indicated trace concentrations of TPHd
    - MTBE, TPHg, and benzene were not reported in the sample analyzed
  - Conclusion:
    - Based on these findings this area does not appear to be warranted for further assessment

- Paint Booth
  - Facts:
    - Soil sample indicated Arsenic above applicable screening levels, however the reported concentration is normal for background soil in California
    - MTBE, TPHg, and benzene were not reported in the sample analyzed
  - Conclusion:
    - Based on these findings this area does not appear to be warranted for further assessment

- Suspected Mechanic's Pits
  - Fact:
    - MTBE, TPHg, TPHd, and benzene were not reported in the samples analyzed
  - Conclusions
    - Based on these findings this area does not appear to be warranted for further assessment

7.0 RECOMMENDATIONS

Based on the findings and conclusions of this subsurface investigation it appears that the identified Phase I ESA RECs do not warrant additional investigation. However, 4 of the 13 identified USTs require proper abandonment. The following are recommendations for the USTs requiring proper abandonment:

- Tank D
  - Upon removal of the electrical equipment above the suspected location, remove the UST under SCEMD permit.
- Tank E
  - Upon removal of the existing building, remove the UST under SCEMD permit.
  - Additionally, remove the associated contaminated soil.
- Tank F
  - Upon removal of the existing building, remove the UST under SCEMD permit.
- Tank L
  - Once Tank L is no longer in use, remove under SCEMD permit.

8.0 LIMITATIONS

The statements and conclusions in this report are based upon the scope of work described above and on observations made on the dates of our fieldwork. The work was performed using a degree of skill consistent with that of competent environmental consulting firms performing similar work in the area. No recommendation is made as to the suitability of the property for any purpose. The results of our investigation do not preclude the possibility that materials currently, or in the future, defined as hazardous are present on the property. This report is applicable only to the investigated property and should not be used for any other property. No warranty is expressed or implied.

FIGURES

Adapted from the Thomas Guide
Sacramento and Solano Counties
Street Guide and Directory, 2006 edition.

N

0 1000 2000

SCALE IN FEET

WallaceKuhl & ASSOCIATES INC

VICINITY MAP

CRYSTAL - MERIDIAN

Sacramento, California

FIGURE	1
DRAWN BY	TLH
CHECKED BY	CJK
PROJECT MGR	AEF
DATE	7/07

WKA NO. 7528.04

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Legend:

- ● Approximate boring location
- ⊕ Approximate monitoring well location
- ▲ Approximate hand auger location
- G Locations of existing or former USTs

Note:

Adapted from an aerial photograph from Google Earth™ mapping service, 2006.

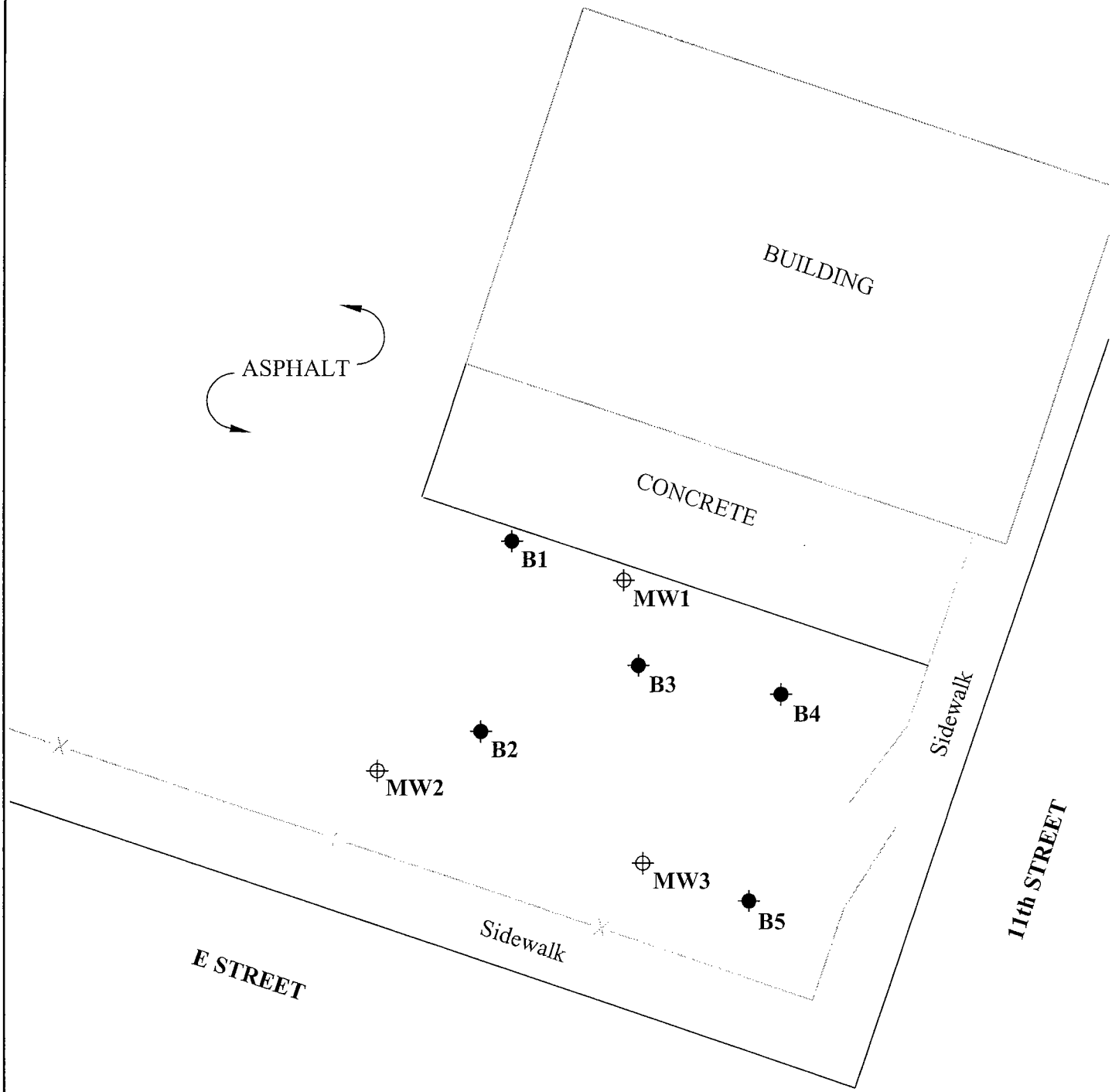
WallaceKuhl & ASSOCIATES INC

SITE PLAN

CRYSTAL - MERIDIAN

Sacramento, California

FIGURE 2	
DRAWN BY	TLH
CHECKED BY	CJK
PROJECT MGR	AEF
DATE	7/07
WKA NO. 7528.04	



Legend:

- Approximate boring location
- Approximate monitoring well location

N

0 10 20

SCALE IN FEET

Wallace Kuhl & Associates Inc

SITE PLAN - TANK M

CRYSTAL - MERIDIAN

Sacramento, California

FIGURE	3
DRAWN BY	TLH
CHECKED BY	CJK
PROJECT MGR	AEF
DATE	7/07

WKA NO. 7528.04

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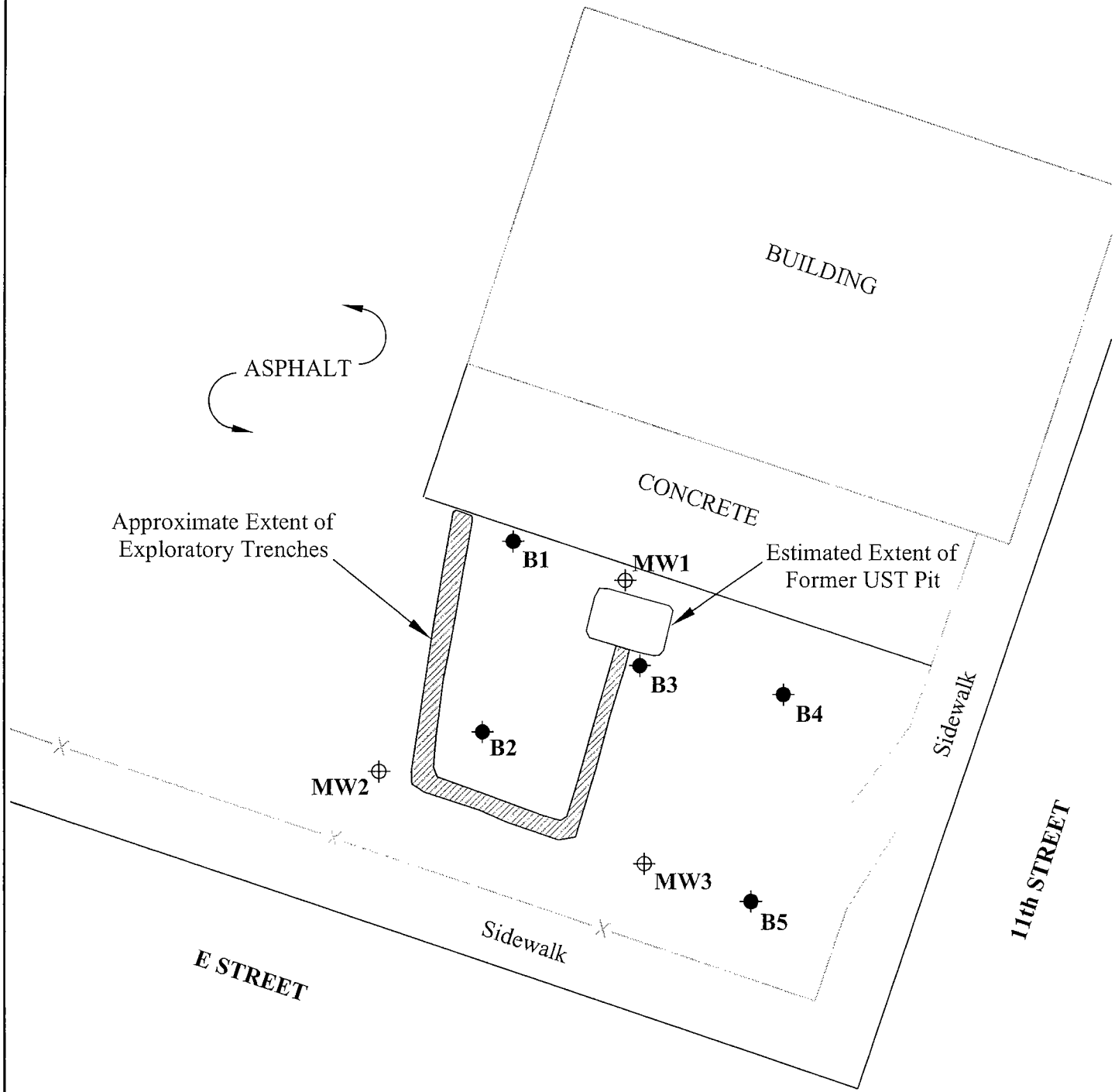

Legend:

- Approximate boring location
- Approximate monitoring well location

N

0 10 20

SCALE IN FEET

WallaceKuhl & ASSOCIATES INC

SITE PLAN WITH EXPLORATORY TRENCHES

CRYSTAL - MERIDIAN

Sacramento, California

FIGURE	4
DRAWN BY	TLH
CHECKED BY	CJK
PROJECT MGR	AEF
DATE	7/07

WKA NO. 7528.04

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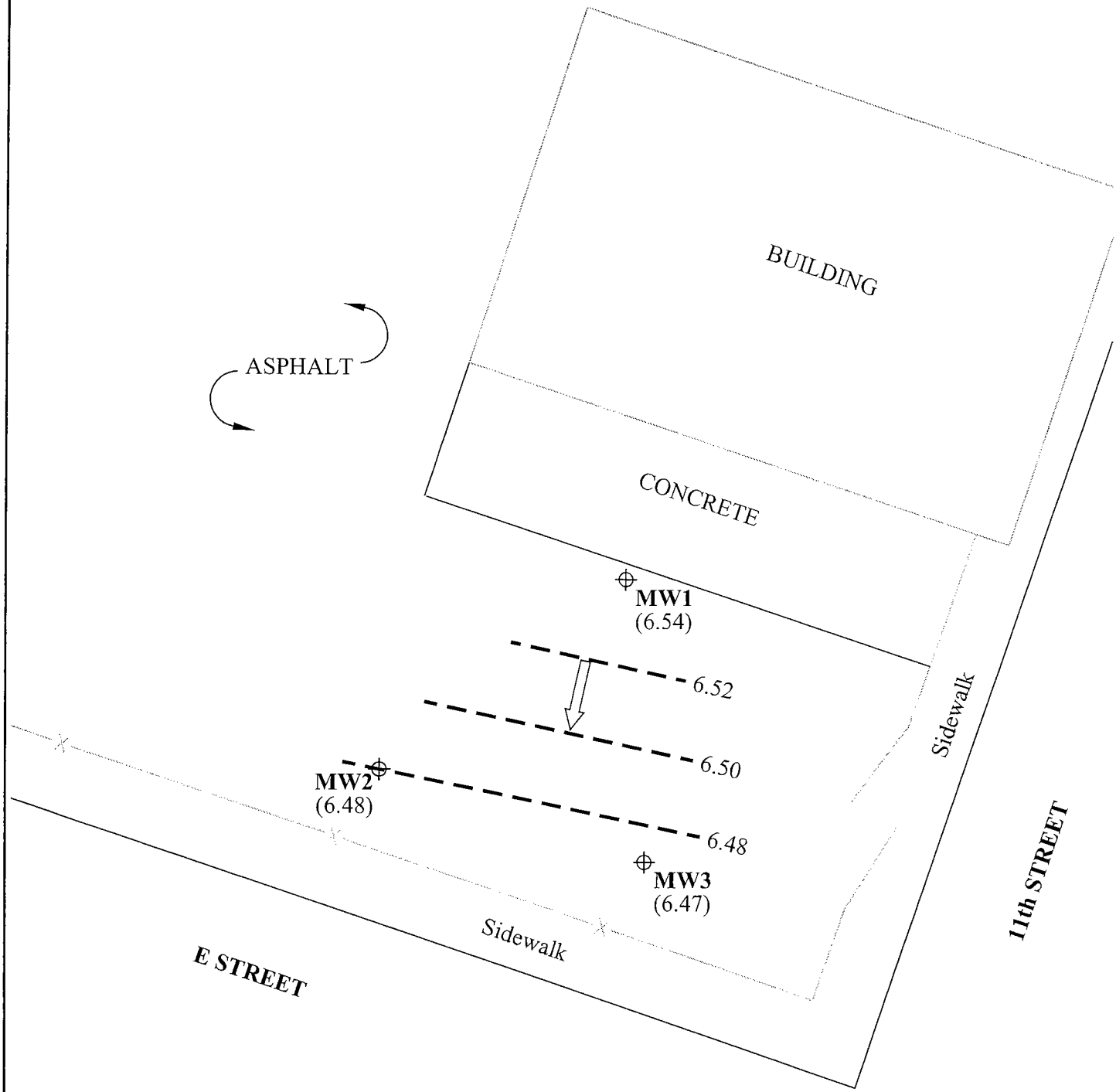

Legend:

- ⊕ Approximate monitoring well location
- (6.54) Groundwater elevation in feet above mean sea level (msl)
- ⇨ Groundwater flow direction
- – – Groundwater contour lines (elevation in feet above mean sea level)

N

0 10 20

SCALE IN FEET

WallaceKuhl & ASSOCIATES INC

POTENTIOMETRIC SURFACE MAP

June 15, 2007

CRYSTAL - MERIDIAN

Sacramento, California

FIGURE	5
DRAWN BY	TLH
CHECKED BY	CJK
PROJECT MGR	AEF
DATE	7/07

WKA NO. 7528.04

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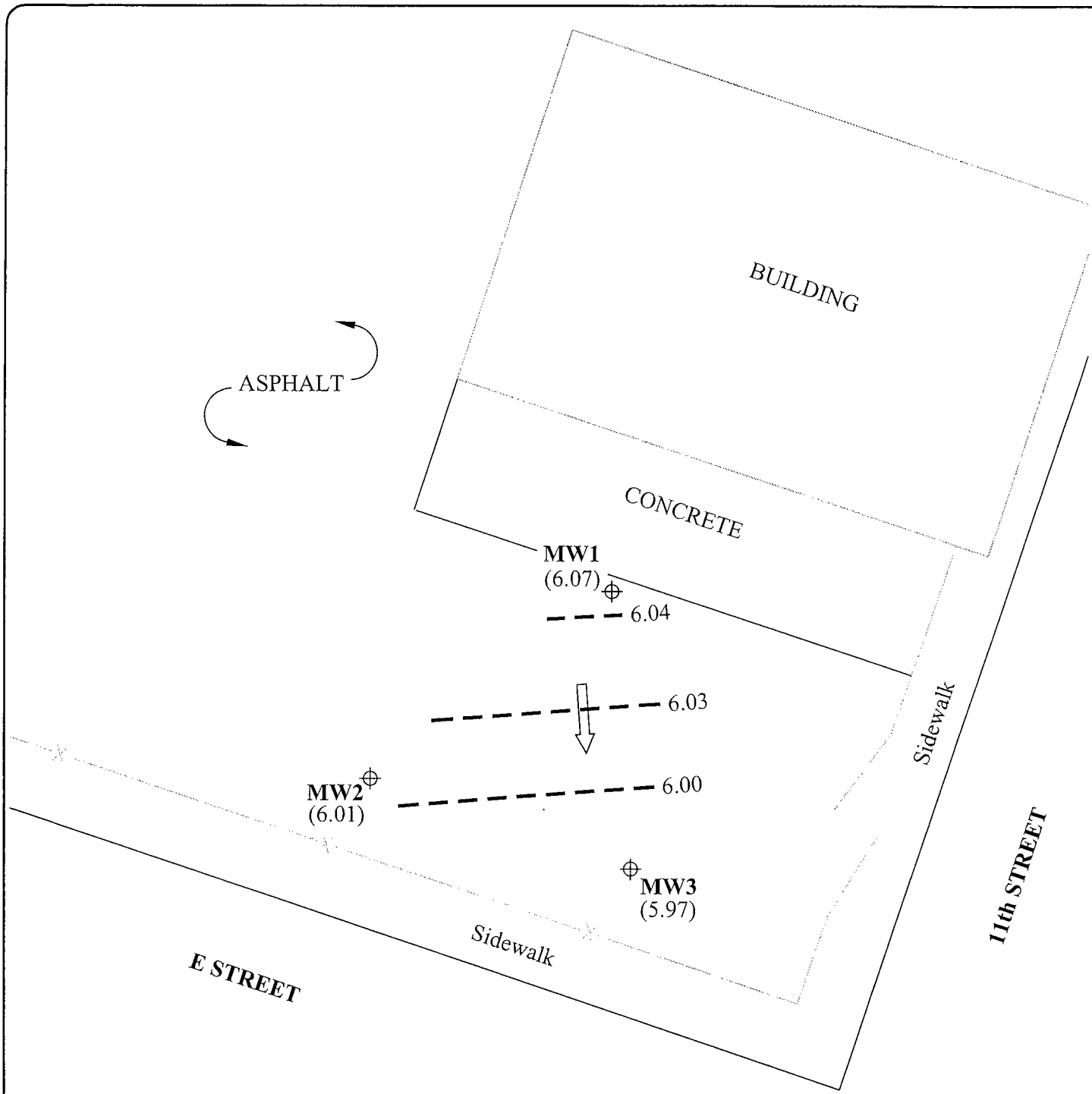

Legend:

- ⊕ Approximate monitoring well location
- (6.07) Groundwater elevation in feet above mean sea level
- – – Groundwater contour lines (elevation in feet above mean sea level)
- ⇨ Groundwater flow direction

N

0 10 20

SCALE IN FEET

Wallace Kuhl & Associates Inc

POTENTIOMETRIC SURFACE MAP

July 6, 2007

CRYSTAL - MERIDIAN

Sacramento, California

FIGURE	6
DRAWN BY	TLH
CHECKED BY	CJK
PROJECT MGR	AEF
DATE	7/07

WKA NO. 7528.04

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TABLES

TABLE 1

Monitoring Well Construction Details

Detail	MW1 TOC Elev. = 24.44	MW2 TOC Elev. = 24.34	MW3 TOC Elev. = 23.89
Total Depth[1]	25	25	25
Casing Diameter (inches)	2	2	2
Screened Interval	10-25	10-25	10-25
Sand Interval	8-26.5	8-26.5	8-26.5
Bentonite Interval	6-8	6-8	6-8
Blank Interval	0-10	0-10	0-10
Grout Interval	0-6	0-6	0-6
Well Box Type	flush mt	flush mt	flush mt

Notes:

[1] = Depths and intervals shown are approximate feet below top of casing, respectively.

TOC = Top of well casing, surveyed to north side of well casing per GeoTracker standards; measured on the northerly side.

TOC Elev. = Top of casing elevation calculated in feet above or below (-) mean sea level (msl).

flush mt = Well vault mounted flush with grade level.

TABLE 2

Summary of Groundwater Elevation Data
and Apparent Groundwater Flow Direction and Gradient

Sample Date	MW1 TOC Elev. = 24.44		MW2 TOC Elev. = 24.34		MW3 TOC Elev. = 23.89		GW Flow Direction	GW Gradient
	DTW	GW Elev.	DTW	GW Elev.	DTW	GW Elev.		
6/15/2007	17.90	6.54	17.86	6.48	17.42	6.47	S	0.0019
7/6/2007	18.37	6.07	18.33	6.01	17.92	5.97	S	0.0026

Notes:

TOC Elev. = top of casing elevation in feet above mean sea level (msl) by survey (Morrow Surveying on 6/22/07)

DTW = depth-to-water in feet below top of casing

GW Elev. = groundwater elevation in feet above msl

TABLE 3
Analytical Suite Table for All Samples Analyzed

REC Area	Sample Identification	TPHd	TPHmo	VOCs	PAHs	CAM 17 Metals	PCBs
A	B19-GW	X	X	X			
A	B20-W	X	X				
D	B18-GW	X	X	X			
E	B17-11	X	X		X		
E	B17-GW	X	X	X			
F	B16-10	X	X	X			
F	B16-GW	X	X	X			
G & H	B11-GW	X	X	X			
G & H	B21-W	X	X				
G & H	B22-W	X	X				
I	B12-GW	X	X	X			
J	B7-10	X	X	X			
K	B13-GW	X	X	X			
L	B6-GW	X	X	X			
M	B1-GW	X	X	X			
M	B2-12	X	X	X			
M	B2-GW	X	X	X			
M	B3-12	X	X	X			
M	B3-GW	X	X	X			
M	B4-10	X	X	X			
M	B4-GW	X	X	X			
M	B5-GW	X	X	X			
M	MW1	X	X		X		
M	MW2	X	X		X		
M	MW3	X	X		X		
Hydraulic Lift	B8-3	X	X	X		X	X
Paint Booth	B9-3	X	X	X		X	
oil/water separator	B10-11	X	X	X			
oil/water separator	B10-GW	X	X	X			
Mechanic's pit	B14-5	X	X	X			
Mechanic's pit	B15-5	X	X	X			

Notes:
REC = recognized environmental condition
TPHd = total petroleum hydrocarbons-as-diesel
TPHmo = total petroleum hydrocarbons-as-motor oil
VOCs = volatile organic compounds: including TPHg and MTBE
PCBs = polychlorinated biphenyls
TPHg = total petroluem hydrocarbons-as-gasoline
MTBE = methyl-tert-butyl ether

TABLE 4
Summary of Analytical Results for Soil Samples Collected from Soil Borings
Concentrations reported in milligrams per kilogram (mg/kg)

SAMPLE DATA				EPA Method 8015M		EPA Method 8260B			EPA Method 8082
Sample	REC Area	Sample Depth (feet bgs)	Sample Date	TPHd	TPHmo	TPHg	MTBE	VOCs*	PAHs*
B2-12	M	12	4/10/07	**4.7**	<10	<1.0	<0.0050	All ND	---
B3-12	M	12	4/10/07	**4.0**	<10	<1.0	<0.0050	All ND	---
B4-10	M	10	4/10/07	**6.1**	<10	<1.0	<0.0050	All ND	---
B7-10	J	10	4/11/07	<1.0	<10	<1.0	<0.0050	All ND	---
B8-3	Hydraulic Lift	3	4/11/07	**4.5**	<10	<1.0	<0.0050	All ND	---
B9-3	Paint Booth	3	4/11/07	na	na	<1.0	<0.0050	All ND	---
B10-11	oil/water separator	11	4/10/07	**1.4**	<10	<1.0	<0.0050	All ND	---
B14-5	Mechanic's Pit	5	4/11/07	<1.0	<10	<1.0	<0.0050	All ND	---
B15-5	Mechanic's Pit	5	4/11/07	<1.0	<10	<1.0	<0.0050	All ND	---
B16-10	F	10	4/11/07	**1.2**	<10	<1.0	<0.0050	All ND	---
B17-11	E	11	4/11/07	**14,000**	**9,000**	---	---	---	Acenaphthylene: 1.4 Pyrene: 3.8
PRGs				na	na	na	32	na	2,300

Notes:
REC = recognized environmental condition
bgs = below ground surface
TPHd = total petroleum hydrocarbons-as-diesel
TPHmo = total petroleum hydrocarbons-as-motor oil
TPHg = total petroluem hydrocarbons-as-gasoline
MTBE = methyl-tert-butyl ether
VOCs = volatile organic compounds
PAHs = polynuclear aromatic hydrocarbons
* = Only detected compounds listed, see laboratory report in Appendix C for complete analytical results
< = less than the indicated laboratory reporting limit
All ND = No analyte concentration within the analytical suite detected above laboratory reporting limit
--- = sample not analyzed for specific parameter
Bold = analyte concentration reported above the laboratory reporting limit
PRGs = Preliminary Remediation Goals for Residential Land Use (EPA, 2004)
na = not available or established

TABLE 5

Summary of Analytical Results for Groundwater Samples Collected from Soil Borings
Concentrations reported in micrograms per liter (ug/L)

SAMPLE DATA			EPA Method 8015M				EPA Method 8260B		
Sample	REC Area	Sample Date	TPHd		TPHmo		TPHg	MTBE	VOCs*
			Regular	Silica Gel Cleanup	Regular	Silica Gel Cleanup			
B1-GW	M	4/10/07	**570**	**220**	**980**	**500**	<50	<0.50	All ND
B2-GW	M	4/10/07	**570**	**140**	**1,800**	**1,000**	<50	<0.50	Naphthalene: **1.2**
B3-GW	M	4/10/07	**250**	---	<100	---	<50	<0.50	All ND
B4-GW	M	4/10/07	<50	---	<100	---	<50	<0.50	Chloroform: **3.9**
B5-GW	M	4/10/07	**69**	---	<100	---	<50	<0.50	Naphthalene: **0.75**
B6-GW	L	4/10/07	**56**	---	<100	---	<50	<0.50	Chloroform: **10**
B10-GW	oil/water separator	4/10/07	**74**	---	<100	---	<50	<0.50	All ND
B11-GW	G & H	4/10/07	**340**	---	<100	---	<50	<0.50	All ND
B12-GW	I	4/10/07	**190**	---	<100	---	<50	<0.50	All ND
B13-GW	K	4/11/07	**180**	---	<100	---	<50	<0.50	All ND
B16-GW	F	4/11/07	**140**	---	<100	---	<50	<0.50	Chloroform: **0.71**
B17-GW	E	4/11/07	<50	---	<100	---	<50	<0.50	All ND
B18-GW	D	4/11/07	<50	---	<100	---	<50	<0.50	All ND
B19-GW	A	4/11/07	**75**	---	<100	---	<50	<0.50	All ND
B20-W	A	6/7/07	**120**	---	<100	---	---	---	---
B21-W	G & H	6/7/07	**100**	---	<100	---	---	---	---
B22-W	G & H	6/7/07	**89**	---	<100	---	---	---	---
WQGs			na		na		na	5	14

Notes:
REC = recognized environmental condition
TPHd = total petroleum hydrocarbons-as-Diesel
TPHmo = total petroleum hydrocarbons-as-motor oil
TPHg = total petroluem hydrocarbons-as-gasoline
MTBE = methyl-tert-butyl ether
VOCs = volatile organic compounds
* = Only detected compounds listed, see laboratory report in Appendix C for complete analytical results
< = less than the indicated laboratory reporting limit
All ND = No analyte concentration within the analytical suite detected above laboratory reporting limit
--- = sample not analyzed for specific parameter
Bold = analyte concentration reported above the laboratory reporting limit
WQGs = Water Quality Goals (Central Valley Regional Water Quality Control Board, 2004)
na = not available or established

TABLE 6

Summary of Analytical Results for Soil Samples Collected from Soil Borings

Concentrations reported in milligrams per kilogram (mg/kg)

SAMPLE DATA			EPA 6000 / 7000 Series								
Sample	Sample Depth (feet bgs)	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead
B8-3	3	04/11/07	<0.75	**8.64**	**133**	**0.426**	<0.5	**42**	**14**	**32.3**	**9.43**
B9-3	3	04/11/07	<0.75	**8.42**	**147**	**0.438**	<0.5	**41.5**	**13.7**	**32.7**	**6.81**
CHHSL			30	0.07	5,200	150	1.7	100,000	660	3,100	150
PRG			31	0.39	5,400	150	37	210	900	3,100	150

SAMPLE DATA			EPA 6000 / 7000 Series							
Sample	Sample Depth (feet bgs)	Sample Date	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
B8-3	3	04/11/07	<0.0835	<0.25	**52.9**	<0.75	<0.25	<0.75	**42.6**	**52**
B9-3	3	04/11/07	<0.0835	**0.386**	**50.2**	<0.75	<0.25	<0.75	**42.6**	**52.6**
CHHSL			18	380	1600	380	380	5.0	530	23,000
PRG			23	390	1600	390	390	5.2	78	23,000

Notes:

bgs = below ground surface

CHHSL = California Human Health Screening Level for Residential Land Use (DTSC, 2005)

PRG = Preliminary Remediation Goals for Residential Land Use with California Modifications (EPA, 2006)

< = less than the indicated laboratory reporting limit

na = sample not analyzed for specific parameter

Bold = analyte concentration reported above the laboratory reporting limit

TABLE 7

Summary of Analytical Results for Groundwater Samples Collected from Monitoring Wells

Concentrations reported in micrograms per liter (ug/L)

SAMPLE DATA		EPA Method 8015M		EPA Method 8260B										EPA Method 8310
Sample	Sample Date	TPHd	TPHmo	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	DIPE	ETBE	TAME	Tert-Butanol	PAH's
MW1	6/15/07	<50	<100	<50	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50	<0.50	<0.50	<5.0	All ND
	7/6/07	**260**	<100	<50	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50	<0.50	<0.50	<5.0	All ND
MW2	6/15/07	<50	<100	<50	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50	<0.50	<0.50	<5.0	All ND
	7/6/07	**69**	<100	<50	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50	<0.50	<0.50	<5.0	All ND
MW3	6/15/07	<50	<100	<50	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50	<0.50	<0.50	<5.0	All ND
	7/6/07	<50	<100	<50	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50	<0.50	<0.50	<5.0	All ND

Notes:

TPHd = total petroleum hydrocarbons-as-Diesel

TPHmo = total petroleum hydrocarbons-as-motor oil

TPHg = total petroluem hydrocarbons-as-gasoline

MTBE = methyl-tert-butyl ether

DIPE = diisopropyl ether

ETBE = ethyl-tert-buty ether

TAME = tert-amyl-methyl ether

PAH's = polyaromatic hydrocarbons

< = less than the indicated laboratory reporting limit

All ND = No analyte concentration within the analytical suite detected above laboratory reporting limit

Bold = analyte concentration reported above the laboratory reporting limit

APPENDIX A

Soil Boring Logs
and
Well Construction Details

DEPTH (feet)	SAMPLER	SAMPLE NUMBER	BLOWS/FT.	DRY UNIT WT. (PCF)	MOISTURE CONTENT (%)	PID (PPM)	USCS	GRAPHIC LOG	SOIL DESCRIPTION AND REMARKS
0	Continuous Core								3" asphalt concrete over 4" aggregate base
							ML		Brown, fine sandy silt
5									
10									
15									▽i
20									
25									
30									

BORING NUMBER: B1
DATE DRILLED: 4/10/07
LOGGED BY: MAE

DRILL RIG/METHOD:
GEOPROBE/2" DIRECT PUSH
SOLID FLIGHT AUGERS

Notes:

1. This log depicts conditions only at the boring location, see Figure 2, and only on the date of field exploration.
2. For an explanation of the symbols used in the boring log, see Figure USCS.

WallaceKuhl & ASSOCIATES INC

LOG OF BORING B1

CRYSTAL - MERIDIAN

Sacramento, California

FIGURE	B1
DRAWN BY	TLH
CHECKED BY	CJK
PROJECT MGR	AEF
DATE	7/07

WKA NO. 7528.04

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BORING NUMBER: B2
DATE DRILLED: 4/10/07
LOGGED BY: MAE

DRILL RIG/METHOD:
GEOPROBE/2" DIRECT PUSH
SOLID FLIGHT AUGERS

DEPTH (feet)	SAMPLER	SAMPLE NUMBER	BLOWS/FT.	DRY UNIT WT. (PCF)	MOISTURE CONTENT (%)	PID (PPM)	USCS	GRAPHIC LOG	SOIL DESCRIPTION AND REMARKS
0									3" asphalt concrete over 4" aggregate base
							ML		Brown, fine sandy silt
5	Continuous Core								
10		B2-12				0.0			
15									▽i
20									
25									
30									

Notes:

1. This log depicts conditions only at the boring location, see Figure 2, and only on the date of field exploration.
2. For an explanation of the symbols used in the boring log, see Figure USCS.

WallaceKuhl & ASSOCIATES INC

LOG OF BORING B2

CRYSTAL - MERIDIAN

Sacramento, California

FIGURE B2

DRAWN BY	TLH
CHECKED BY	CJK
PROJECT MGR	AEF
DATE	7/07

WKA NO. 7528.04

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BORING NUMBER: B10
DATE DRILLED: 4/10/07
LOGGED BY: MAE

DRILL RIG/METHOD:
GEOPROBE/2" DIRECT PUSH
SOLID FLIGHT AUGERS

DEPTH (feet)	SAMPLER	SAMPLE NUMBER	BLOWS/FT.	DRY UNIT WT. (PCF)	MOISTURE CONTENT (%)	PID (PPM)	USCS	GRAPHIC LOG	SOIL DESCRIPTION AND REMARKS
0									3" asphalt concrete over 4" aggregate base
							EF		Brown, silty sand
									FILL
							ML		Brown, sandy silt
5	Continuous Core								
10		B10-11				0.0			
15									▽i
20									
25									
30									

Notes:

1. This log depicts conditions only at the boring location, see Figure 2, and only on the date of field exploration.
2. For an explanation of the symbols used in the boring log, see Figure USCS.

WallaceKuhl & ASSOCIATES INC

LOG OF BORING B10

CRYSTAL - MERIDIAN

Sacramento, California

FIGURE B10

DRAWN BY	TLH
CHECKED BY	CJK
PROJECT MGR	AEF
DATE	7/07

WKA NO. 7528.04

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DEPTH (feet)	SAMPLER	SAMPLE NUMBER	BLOWS/FT.	DRY UNIT WT. (PCF)	MOISTURE CONTENT (%)	PID (PPM)	USCS	GRAPHIC LOG	SOIL DESCRIPTION AND REMARKS
0	Continuous Core								3" asphalt concrete over 4" aggregate base
							EF		Brown, silty fine to coarse sand with fine gravel
									FILL
							ML		Brown, fine sandy silt
5									
10									
15									▽i
20									
25									
30									

BORING NUMBER: B11
DATE DRILLED: 4/10/07
LOGGED BY: MAE

DRILL RIG/METHOD:
GEOPROBE/2" DIRECT PUSH
SOLID FLIGHT AUGERS

Notes:

1. This log depicts conditions only at the boring location, see Figure 2, and only on the date of field exploration.
2. For an explanation of the symbols used in the boring log, see Figure USCS.

WallaceKuhl & ASSOCIATES INC

LOG OF BORING B11

CRYSTAL - MERIDIAN

Sacramento, California

FIGURE B11	
DRAWN BY	TLH
CHECKED BY	CJK
PROJECT MGR	AEF
DATE	7/07
WKA NO. 7528.04	

C:\Documents and Settings\thart\Desktop\7528.04 Drafting\7528.04_B1-B22_BL.dwg, 7/26/2007 11:31:37 AM, thart

DEPTH (feet)	SAMPLER	SAMPLE NUMBER	BLOWS/FT.	DRY UNIT WT. (PCF)	MOISTURE CONTENT (%)	PID (PPM)	USCS	GRAPHIC LOG	SOIL DESCRIPTION AND REMARKS
0	Continuous Core								3" asphalt concrete over 4" aggregate base
							SM		Brown, silty fine to coarse sand with some fine gravel
5									plastic sheet
10									
15									▽i
20									FILL
25									
30									

BORING NUMBER: B12
DATE DRILLED: 4/10/07
LOGGED BY: MAE

DRILL RIG/METHOD:
GEOPROBE/2" DIRECT PUSH
SOLID FLIGHT AUGERS

Notes:

1. This log depicts conditions only at the boring location, see Figure 2, and only on the date of field exploration.
2. For an explanation of the symbols used in the boring log, see Figure USCS.

WallaceKuhl & ASSOCIATES INC

LOG OF BORING B12

CRYSTAL - MERIDIAN

Sacramento, California

FIGURE B12	
DRAWN BY	TLH
CHECKED BY	CJK
PROJECT MGR	AEF
DATE	7/07
WKA NO. 7528.04	

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BORING NUMBER: B13	DRILL RIG/METHOD:
DATE DRILLED: 4/10/07	GEOPROBE/2" DIRECT PUSH
LOGGED BY: MAE	SOLID FLIGHT AUGERS

DEPTH (feet)	SAMPLER	SAMPLE NUMBER	BLOWS/FT.	DRY UNIT WT. (PCF)	MOISTURE CONTENT (%)	PID (PPM)	USCS	GRAPHIC LOG	SOIL DESCRIPTION AND REMARKS
0	Continuous Core						SM		Brown, silty fine to medium sand
5									
10		B13-10				0.0			
15									
20									
25									
30									

∇i

Notes:

1. This log depicts conditions only at the boring location, see Figure 2, and only on the date of field exploration.
2. For an explanation of the symbols used in the boring log, see Figure USCS.

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LOG OF BORING B13

CRYSTAL - MERIDIAN

Sacramento, California

FIGURE B13	
DRAWN BY	TLH
CHECKED BY	CJK
PROJECT MGR	AEF
DATE	7/07
WKA NO. 7528.04	

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BORING NUMBER: B16
DATE DRILLED: 4/10/07
LOGGED BY: MAE

DRILL RIG/METHOD:
GEOPROBE/2" DIRECT PUSH
SOLID FLIGHT AUGERS

DEPTH (feet)	SAMPLER	SAMPLE NUMBER	BLOWS/FT.	DRY UNIT WT. (PCF)	MOISTURE CONTENT (%)	PID (PPM)	USCS	GRAPHIC LOG	SOIL DESCRIPTION AND REMARKS
0	Continuous Core						ML		Brown, fine sandy silt
5									
10		B16-10				0.0			
15									▽i
20									
25									
30									

Notes:

1. This log depicts conditions only at the boring location, see Figure 2, and only on the date of field exploration.
2. For an explanation of the symbols used in the boring log, see Figure USCS.

WallaceKuhl & ASSOCIATES INC

LOG OF BORING B16

CRYSTAL - MERIDIAN

Sacramento, California

FIGURE B16

DRAWN BY	TLH
CHECKED BY	CJK
PROJECT MGR	AEF
DATE	7/07

WKA NO. 7528.04

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BORING NUMBER: B17
DATE DRILLED: 4/10/07
LOGGED BY: MAE

DRILL RIG/METHOD:
GEOPROBE/2" DIRECT PUSH
SOLID FLIGHT AUGERS

DEPTH (feet)	SAMPLER	SAMPLE NUMBER	BLOWS/FT.	DRY UNIT WT. (PCF)	MOISTURE CONTENT (%)	PID (PPM)	USCS	GRAPHIC LOG	SOIL DESCRIPTION AND REMARKS
0	Continuous Core						ML		Brown, sandy silt
10		B17-11				22.3			staining begins, odor
15									▽i
20									
25									
30									

Notes:

1. This log depicts conditions only at the boring location, see Figure 2, and only on the date of field exploration.
2. For an explanation of the symbols used in the boring log, see Figure USCS.

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LOG OF BORING B17

CRYSTAL - MERIDIAN

Sacramento, California

FIGURE B17

DRAWN BY	TLH
CHECKED BY	CJK
PROJECT MGR	AEF
DATE	7/07

WKA NO. 7528.04

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BORING NUMBER: B18
DATE DRILLED: 4/10/07
LOGGED BY: MAE

DRILL RIG/METHOD:
GEOPROBE/2" DIRECT PUSH
SOLID FLIGHT AUGERS

DEPTH (feet)	SAMPLER	SAMPLE NUMBER	BLOWS/FT.	DRY UNIT WT. (PCF)	MOISTURE CONTENT (%)	PID (PPM)	USCS	GRAPHIC LOG	SOIL DESCRIPTION AND REMARKS
0	Continuous Core	B18-11				0.0	ML		Brown, fine sandy silt
5									
10									
15									▽i
20									
25									
30									

Notes:

1. This log depicts conditions only at the boring location, see Figure 2, and only on the date of field exploration.
2. For an explanation of the symbols used in the boring log, see Figure USCS.

WallaceKuhl & ASSOCIATES INC

LOG OF BORING B18

CRYSTAL - MERIDIAN

Sacramento, California

FIGURE B18

DRAWN BY	TLH
CHECKED BY	CJK
PROJECT MGR	AEF
DATE	7/07

WKA NO. 7528.04

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DEPTH (feet)	SAMPLER	SAMPLE NUMBER	BLOWS/FT.	DRY UNIT WT. (PCF)	MOISTURE CONTENT (%)	PID (PPM)	USCS	GRAPHIC LOG	SOIL DESCRIPTION AND REMARKS
0	Continuous Core	B19-12				0.0	ML		Brown, fine sandy silt
5									
10									
15									▽i
20									
25									
30									

BORING NUMBER: B19
DATE DRILLED: 4/10/07
LOGGED BY: MAE

DRILL RIG/METHOD:
GEOPROBE/2" DIRECT PUSH
SOLID FLIGHT AUGERS

Notes:

1. This log depicts conditions only at the boring location, see Figure 2, and only on the date of field exploration.
2. For an explanation of the symbols used in the boring log, see Figure USCS.

WallaceKuhl & ASSOCIATES INC

LOG OF BORING B19

CRYSTAL - MERIDIAN

Sacramento, California

FIGURE B19

DRAWN BY	TLH
CHECKED BY	CJK
PROJECT MGR	AEF
DATE	7/07

WKA NO. 7528.04

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DEPTH (feet)	SAMPLER	SAMPLE NUMBER	BLOWS/FT.	DRY UNIT WT. (PCF)	MOISTURE CONTENT (%)	PID (PPM)	USCS	GRAPHIC LOG	SOIL DESCRIPTION AND REMARKS
0	Continuous Core								4" asphalt concrete over 6" aggregate base
							EF		
5							ML		Brown, clayey fine sandy silt
10									
15									
20									▽i
25									
30									

BORING NUMBER: B20
DATE DRILLED: 4/10/07
LOGGED BY: MAE

DRILL RIG/METHOD:
GEOPROBE/2" DIRECT PUSH
SOLID FLIGHT AUGERS

Notes:

1. This log depicts conditions only at the boring location, see Figure 2, and only on the date of field exploration.
2. For an explanation of the symbols used in the boring log, see Figure USCS.

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LOG OF BORING B20

CRYSTAL - MERIDIAN

Sacramento, California

FIGURE B20	
DRAWN BY	TLH
CHECKED BY	CJK
PROJECT MGR	AEF
DATE	7/07
WKA NO. 7528.04	

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BORING NUMBER: B21
DATE DRILLED: 4/10/07
LOGGED BY: MAE

DRILL RIG/METHOD:
GEOPROBE/2" DIRECT PUSH
SOLID FLIGHT AUGERS

DEPTH (feet)	SAMPLER	SAMPLE NUMBER	BLOWS/FT.	DRY UNIT WT. (PCF)	MOISTURE CONTENT (%)	PID (PPM)	USCS	GRAPHIC LOG	SOIL DESCRIPTION AND REMARKS
0	Continuous Core								2" asphalt concrete over 6" aggregate base
							ML		Brown, fine sandy silt
5									
10									
							SM		Brown, silty fine sand
15									▽i
20									
25									
30									

Notes:

1. This log depicts conditions only at the boring location, see Figure 2, and only on the date of field exploration.
2. For an explanation of the symbols used in the boring log, see Figure USCS.

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LOG OF BORING B21

CRYSTAL - MERIDIAN

Sacramento, California

FIGURE B21

DRAWN BY	TLH
CHECKED BY	CJK
PROJECT MGR	AEF
DATE	7/07

WKA NO. 7528.04

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DEPTH (feet)	SAMPLER	SAMPLE NUMBER	BLOWS/FT.	DRY UNIT WT. (PCF)	MOISTURE CONTENT (%)	PID (PPM)	USCS	GRAPHIC LOG	SOIL DESCRIPTION AND REMARKS
0	Continuous Core								3" asphalt concrete over 4" aggregate base
							ML		Brown, fine sandy silt
5									
10									
15									▽i
20									
25									
30									

BORING NUMBER: B5
DATE DRILLED: 4/10/07
LOGGED BY: MAE

DRILL RIG/METHOD:
GEOPROBE/2" DIRECT PUSH
SOLID FLIGHT AUGERS

Notes:

1. This log depicts conditions only at the boring location, see Figure 2, and only on the date of field exploration.
2. For an explanation of the symbols used in the boring log, see Figure USCS.

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LOG OF BORING B5

CRYSTAL - MERIDIAN

Sacramento, California

FIGURE	B5
DRAWN BY	TLH
CHECKED BY	CJK
PROJECT MGR	AEF
DATE	7/07

WKA NO. 7528.04

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BORING NUMBER: B3	DRILL RIG/METHOD:
DATE DRILLED: 4/10/07	GEOPROBE/2" DIRECT PUSH
LOGGED BY: MAE	SOLID FLIGHT AUGERS

DEPTH (feet)	SAMPLER	SAMPLE NUMBER	BLOWS/FT.	DRY UNIT WT. (PCF)	MOISTURE CONTENT (%)	PID (PPM)	USCS	GRAPHIC LOG	SOIL DESCRIPTION AND REMARKS
0									3" asphalt concrete over 4" aggregate base
							ML		Brown, fine sandy silt
5									
	Continuous Core								
10		B3-12				0.0			
15									▽i
20									
25									
30									

Notes:

1. This log depicts conditions only at the boring location, see Figure 2, and only on the date of field exploration.
2. For an explanation of the symbols used in the boring log, see Figure USCS.

WallaceKuhl & ASSOCIATES INC

LOG OF BORING B3

CRYSTAL - MERIDIAN

Sacramento, California

FIGURE	B3
DRAWN BY	TLH
CHECKED BY	CJK
PROJECT MGR	AEF
DATE	7/07
WKA NO.	7528.04

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DEPTH (feet)	SAMPLER	SAMPLE NUMBER	BLOWS/FT.	DRY UNIT WT. (PCF)	MOISTURE CONTENT (%)	PID (PPM)	USCS	GRAPHIC LOG	SOIL DESCRIPTION AND REMARKS
0	Continuous Core								3" asphalt concrete over 4" aggregate base
							ML		Brown, fine sandy silt
5									
10									
15									▽i
20									
25									
30									

BORING NUMBER: B4
DATE DRILLED: 4/10/07
LOGGED BY: MAE

DRILL RIG/METHOD:
GEOPROBE/2" DIRECT PUSH
SOLID FLIGHT AUGERS

Notes:

1. This log depicts conditions only at the boring location, see Figure 2, and only on the date of field exploration.
2. For an explanation of the symbols used in the boring log, see Figure USCS.

WallaceKuhl & ASSOCIATES INC

LOG OF BORING B4

CRYSTAL - MERIDIAN

Sacramento, California

FIGURE	B4
DRAWN BY	TLH
CHECKED BY	CJK
PROJECT MGR	AEF
DATE	7/07

WKA NO. 7528.04

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DEPTH (feet)	SAMPLER	SAMPLE NUMBER	BLOWS/FT.	DRY UNIT WT. (PCF)	MOISTURE CONTENT (%)	PID (PPM)	USCS	GRAPHIC LOG	BORING NUMBER: B6 DATE DRILLED: 4/10/07 LOGGED BY: MAE	DRILL RIG/METHOD: GEOPROBE/2" DIRECT PUSH SOLID FLIGHT AUGERS
									SOIL DESCRIPTION AND REMARKS	
0									3" asphalt concrete over 4" aggregate base	
							ML		Brown, fine sandy silt	
5	Continuous Core									
10		B6-10				0.0				
15									▽i	
20										
25										
30										

Notes:

1. This log depicts conditions only at the boring location, see Figure 2, and only on the date of field exploration.
2. For an explanation of the symbols used in the boring log, see Figure USCS.

WallaceKuhl & ASSOCIATES INC

LOG OF BORING B6

CRYSTAL - MERIDIAN

Sacramento, California

FIGURE	B6
DRAWN BY	TLH
CHECKED BY	CJK
PROJECT MGR	AEF
DATE	7/07

WKA NO. 7528.04

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BORING NUMBER: B22
DATE DRILLED: 4/10/07
LOGGED BY: MAE

DRILL RIG/METHOD:
GEOPROBE/2" DIRECT PUSH
SOLID FLIGHT AUGERS

DEPTH (feet)	SAMPLER	SAMPLE NUMBER	BLOWS/FT.	DRY UNIT WT. (PCF)	MOISTURE CONTENT (%)	PID (PPM)	USCS	GRAPHIC LOG	SOIL DESCRIPTION AND REMARKS
0	Continuous Core								2" asphalt concrete over 6" aggregate base
							ML		Brown, fine sandy silt
5									
10									
							SM		Brown, silty fine sand
15									▽i
20									
25									
30									

Notes:

1. This log depicts conditions only at the boring location, see Figure 2, and only on the date of field exploration.
2. For an explanation of the symbols used in the boring log, see Figure USCS.

WallaceKuhl & ASSOCIATES INC

LOG OF BORING B22

CRYSTAL - MERIDIAN

Sacramento, California

FIGURE B22

DRAWN BY	TLH
CHECKED BY	CJK
PROJECT MGR	AEF
DATE	7/07

WKA NO. 7528.04

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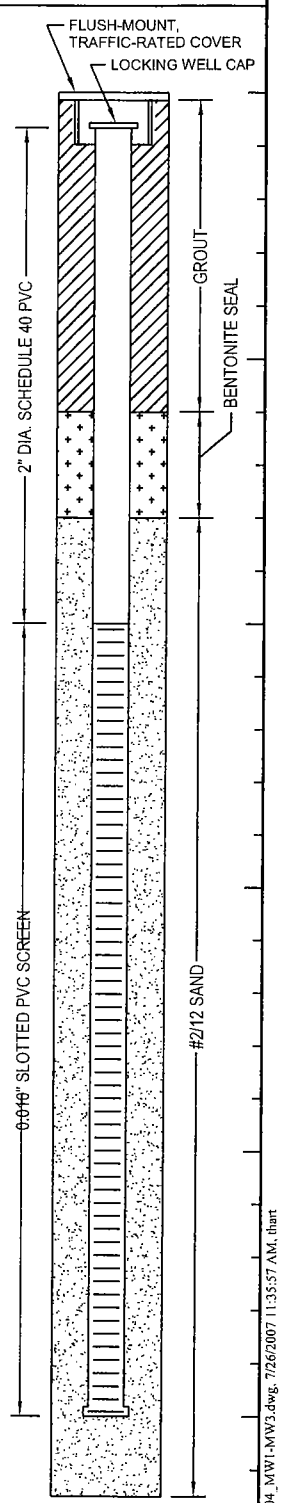
BORING NUMBER: MW1
DATE DRILLED: 6/8/07
LOGGED BY: BPM
DRILL RIG/METHOD: B81/8 INCH HOLLOW STEM AUGERS

DEPTH (feet)	SAMPLER	SAMPLE NUMBER	BLOWS/FT.	DRY UNIT WT. (PCF)	MOISTURE CONTENT (%)	PID	USCS	GRAPHIC LOG	SOIL DESCRIPTION AND REMARKS
0									3" asphalt concrete over 4" aggregate base
							EF		FILL
5		MW1-1I	21				ML		Brown, fine sandy silt
10		MW1-2I	14				SM		Brown, silty fine sand
							ML		Brown, fine sandy silt
15		MW1-3I	7						▽i
20		MW1-4I	7				SM		Brown, silty fine sand
							ML		Brown, fine sandy silt
25		MW1-5I	14						
30									

WELL DIAGRAM



Notes:

1. This log depicts conditions only at the boring location, see Figure 2, and only on the date of field exploration.
2. For an explanation of the symbols used in the boring log, see Figure USCS.

WallaceKuhl & ASSOCIATES INC

LOG OF MONITORING WELL MW1 AND WELL CONSTRUCTION DETAIL

CRYSTAL - MERIDIAN

Sacramento, California

FIGURE	MW1
DRAWN BY	TLH
CHECKED BY	CJK
PROJECT MGR	AEF
DATE	7/07

WKA NO. 7528.04

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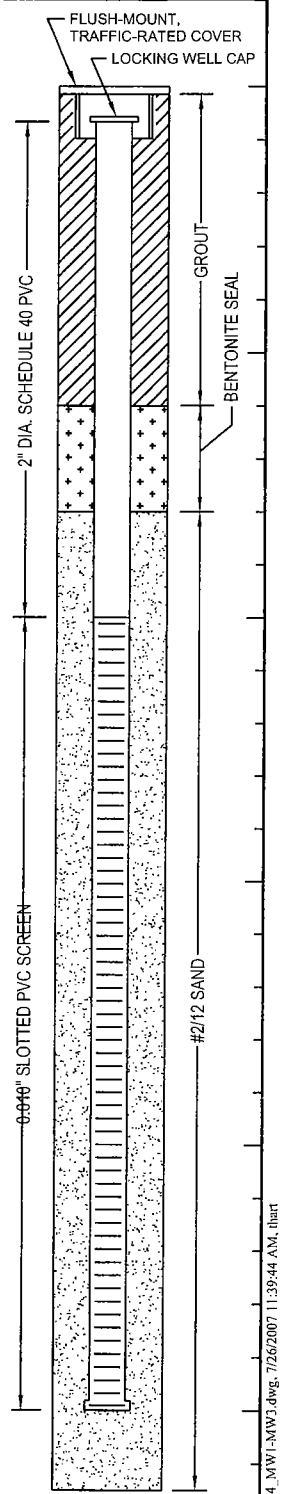
BORING NUMBER: MW2
DATE DRILLED: 6/8/07
LOGGED BY: AEF

DRILL RIG/METHOD:
B81/8 INCH
HOLLOW STEM AUGERS

DEPTH (feet)	SAMPLER	SAMPLE NUMBER	BLOWS/FT.	DRY UNIT WT. (PCF)	MOISTURE CONTENT (%)	PID	USCS	GRAPHIC LOG	SOIL DESCRIPTION AND REMARKS
0									3" asphalt concrete over 4" aggregate base
		MW2-1I	11				SM		Brown, silty fine sand
5		MW2-2I	15				ML		Brown, fine sandy silt
							SW		Brown, fine sand with minor silt
10		MW2-3I	15						
15									▽i
							ML		Brown, fine sandy silt
20		MW2-4I	10						
25		MW2-5I	8						
30									

WELL DIAGRAM



Notes:

1. This log depicts conditions only at the boring location, see Figure 2, and only on the date of field exploration.
2. For an explanation of the symbols used in the boring log, see Figure USCS.

WallaceKuhl & ASSOCIATES INC

LOG OF MONITORING WELL MW2 AND WELL CONSTRUCTION DETAIL

CRYSTAL - MERIDIAN

Sacramento, California

FIGURE	MW2
DRAWN BY	TLH
CHECKED BY	CJK
PROJECT MGR	AEF
DATE	7/07
WKA NO.	7528.04

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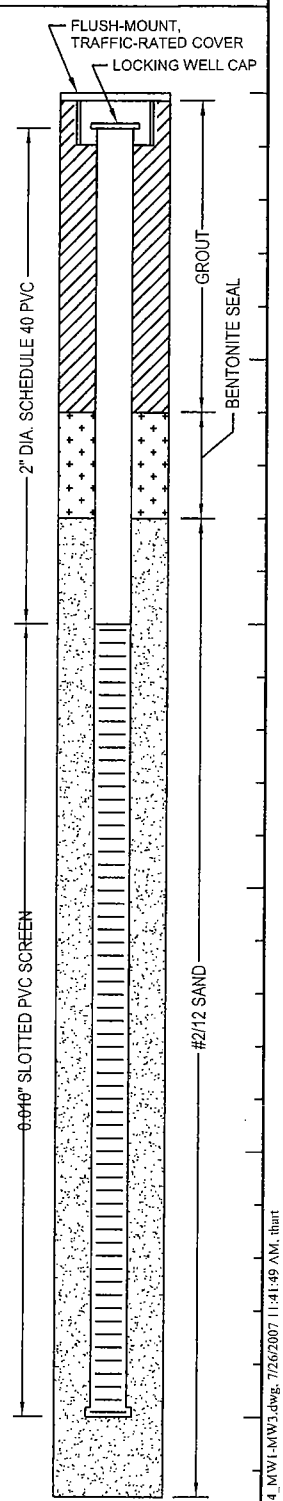
BORING NUMBER: MW3
DATE DRILLED: 6/8/07
LOGGED BY: AEF

DRILL RIG/METHOD:
B81/8 INCH
HOLLOW STEM AUGERS

DEPTH (feet)	SAMPLER	SAMPLE NUMBER	BLOWS/FT.	DRY UNIT WT. (PCF)	MOISTURE CONTENT (%)	PID	USCS	GRAPHIC LOG	SOIL DESCRIPTION AND REMARKS
0									3" asphalt concrete over 4" aggregate base
							EF		FILL
							ML		Brown, fine sandy silt
5									
		MW3-1I	18						
10									
		MW3-2I	10						▽i
15									
		MW3-3I	8						
20									
		MW3-4I	7						
							SM		Brown, silty fine sand
25									
		MW3-5I	8						
30									

WELL DIAGRAM



Notes:

1. This log depicts conditions only at the boring location, see Figure 2, and only on the date of field exploration.
2. For an explanation of the symbols used in the boring log, see Figure USCS.

WallaceKuhl & ASSOCIATES INC

LOG OF MONITORING WELL MW3 AND WELL CONSTRUCTION DETAIL

CRYSTAL - MERIDIAN

Sacramento, California

FIGURE	MW3
DRAWN BY	TLH
CHECKED BY	CJK
PROJECT MGR	AEF
DATE	7/07
WKA NO.	7528.04

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UNIFIED SOIL CLASSIFICATION SYSTEM

MAJOR DIVISIONS		SYMBOL	CODE	TYPICAL NAMES
COARSE GRAINED SOILS (More than 50% of soil > no. 200 sieve size)	GRAVELS (More than 50% of coarse fraction > no. 4 sieve size)	GW		Well graded gravels or gravel - sand mixtures, little or no fines
		GP		Poorly graded gravels or gravel - sand mixtures, little or no fines
		GM		Silty gravels, gravel - sand - silt mixtures
		GC		Clayey gravels, gravel - sand - clay mixtures
	SANDS (50% or more of coarse fraction < no. 4 sieve size)	SW		Well graded sands or gravelly sands, little or no fines
		SP		Poorly graded sands or gravelly sands, little or no fines
		SM		Silty sands, sand - silt mixtures
		SC		Clayey sands, sand - clay mixtures
FINE GRAINED SOILS (50% or more of soil < no. 200 sieve size)	SILTS & CLAYS LL < 50	ML		Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity
		CL		Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
		OL		Organic silts and organic silty clays of low plasticity
	SILTS & CLAYS LL ≥ 50	MH		Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts
		CH		Inorganic clays of high plasticity, fat clays
		OH		Organic clays of medium to high plasticity, organic silty clays, organic silts
HIGHLY ORGANIC SOILS		Pt		Peat and other highly organic soils
ROCK		RX		Rocks, weathered to fresh

OTHER SYMBOLS

= Drive Sample: 2-1/2" O.D. Modified California sampler

= Drive Sample: no recovery

= SPT Sample

∇_i = Initial Water Level

∇_f = Final Water Level

— — — = Estimated or gradational material change line

——— = Observed material change line

Laboratory Tests

PI = Plasticity Index
EI = Expansion Index
UCC = Unconfined Compression Test
TR = Triaxial Compression Test
GR = Gradational Analysis (Sieve)
K = Permeability Test

GRAIN SIZE CLASSIFICATION

CLASSIFICATION	RANGE OF GRAIN SIZES	
	U.S. Standard Sieve Size	Grain Size in Millimeters
BOULDERS	Above 12"	Above 305
COBBLES	12" to 3"	305 to 76.2
GRAVEL coarse (c) fine (f)	3" to No. 4 3" to 3/4" 3/4" to No. 4	76.2 to 4.76 76.2 to 19.1 19.1 to 4.76
SAND coarse (c) medium (m) fine (f)	No. 4 to No. 200 No. 4 to No. 10 No. 10 to No. 40 No. 40 to No. 200	4.76 to 0.074 4.76 to 2.00 2.00 to 0.420 0.420 to 0.074
SILT & CLAY	Below No. 200	Below 0.074

WallaceKuhl & ASSOCIATES INC

UNIFIED SOIL CLASSIFICATION SYSTEM

CRYSTAL - MERIDIAN

Sacramento, California

FIGURE	USCS
DRAWN BY	TLH
CHECKED BY	CJK
PROJECT MGR	AEF
DATE	7/07

WKA NO. 7528.04

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APPENDIX B

Well Purge Data Sheets

GROUNDWATER PURGE AND SAMPLE DATA

Wallace Kuhl & Associates Inc

Job Name: CRYSTAL - MERIDIAN	
Job #: 7528.04	**Date:** 6-11-07 10:50am
Well ID: MW-1	**Personnel:** BPM/CJL/DMF

Gauging Data

Measuring Equipment: (WLM) / IP

Measuring Reference Point Description: TOC Well Cap Pressurized: Yes / No

Well Purge Volume Calculation	Total Depth (feet)		Depth to Water (feet)		Water Column (feet)		Casing Diameter Multiplier				Casing Volume (gal)		Casing Volumes to Purge		Total Purge Volume (gal)
	25' 24.85'	-	17.78'	=	7.22'	x	3/4 0.023	2 0.163	4 0.653	6 1.469	= 1.17	x	5.	=	5.85

Purging Data

Purge Method: Bailer / (Submersible Pump) / Foot Valve / Other (Specify):

Multi-parameter Meter Used: (Hanna) / YSI 556 / Horiba U-22 / Other (Specify):

Time	Volume Purge (gal)	Temp (deg C)	pH	Conductivity (µs/cm)	TDS (ppm)	Turbidity / Color	~~DO mg/L~~	~~ORP~~
11:14	5					VT		
	10					VT		
11:20(5)	15					VT		
	20	23.3	9.15			VT		
	25	23.5 ~~24.6~~	9.17			VT		
1134	30	23.3	9.17			VT		
1135	35	23.3	9.18			T		
	40	—	—					

clear a little

Product Sheen Yes (No) Dewatered Yes No

Petroleum Hydrocarbon Odor Yes (No)

Comments: 22.5 gallons ~~25~~ °C 9.15 pH.

Finish pumping at 23.9°C

11:28am strong organic odor

Sample Data

Sample Time:

Container Type	Number of Containers	Preservative

Well Condition

Well Box	OK	Not OK
Well Box Lid	OK	Not OK
Bolts	OK	Not OK
Casing Cap	OK	Not OK
Lock	OK	Not OK
LDPE Tubing	OK	Not OK
Grout	OK	Not OK

Weather Conditions:

Problems Encountered:

temp: 25.3 pH: 9.21 Turbidity: T

11-77
55 — 11:46

GROUNDWATER PURGE AND SAMPLE DATA

Wallace Kuhl & ASSOCIATES INC

Job Name: CRYSTAL – MERIDIAN	
Job #: 7528 04	**Date:** 6-11-07 10.55
Well ID: PMW-2	**Personnel:** BPM/CJL/DMF

Gauging Data

Measuring Equipment: WLM / IP

Measuring Reference Point Description: TOC Well Cap Pressurized: Yes / No

Well Purge Volume Calculation	Total Depth (feet)		Depth to Water (feet)		Water Column (feet)		Casing Diameter Multiplier				Casing Volume (gal)		Casing Volumes to Purge		Total Purge Volume (gal)
	24.95'	-	17.76'	=	~~24.95~~	x	3/4	2	4	6	=	x		=	
							0.023	0.163	0.653	1.469					

Purging Data

Purge Method: Bailer / Submersible Pump / Foot Valve / Other (Specify):

Multi-parameter Meter Used: Hanna / YSI 556 / Horiba U-22 / Other (Specify):

Time	Volume Purge (gal)	Temp (deg C)	pH	Conductivity (µs/cm)	TDS (ppm)	Turbidity / Color	DO mg/L	ORP	
~~11.58~~ 12:05	10	25.0	9.25			VT			
12:15	20	24.6	9.26			T			Turbid but well dry @ 18
	~~25~~ 25	~~23.0~~ 23.0	9.70			ST			
	~~30~~ 30	22.7	9.28			ST			
	~~35~~ 35	22.7	9.27			ST-C			
12 40	40	22.4	9.27			C			

Product Sheen Yes (No)

Petroleum Hydrocarbon Odor Yes (No) organic odor

Dewatered Yes No

Comments: V.T. Bailer.

Sample Data

Sample Time:

Container Type	Number of Containers	Preservative

Well Condition

Well Box	OK	Not OK
Well Box Lid	OK	Not OK
Bolts	OK	Not OK
Casing Cap	OK	Not OK
Lock	OK	Not OK
LDPE Tubing	OK	Not OK
Grout	OK	Not OK

Weather Conditions:

Problems Encountered:

GROUNDWATER PURGE AND SAMPLE DATA

Wallace Kuhl & ASSOCIATES INC

Job Name: CRYSTAL – MERIDIAN	
Job #: 7528.04	**Date:** 6-11-07
Well ID: MW-3	**Personnel:** BPM / CJL / DMF

Gauging Data

Measuring Equipment: WLM / IP

Measuring Reference Point Description: TOC Well Cap Pressurized: Yes / No

Well Purge Volume Calculation	Total Depth (feet)		Depth to Water (feet)		Water Column (feet)		Casing Diameter Multiplier					Casing Volume (gal)		Casing Volumes to Purge		Total Purge Volume (gal)
	25'	-	17.31'	=	~~7.69~~	x	3/4	2	4	6	=		x		=	
							0.023	0.163	0.653	1.469						

Purging Data

Purge Method: Bailer / Submersible Pump / Foot Valve / Other (Specify):

Multi-parameter Meter Used: Hanna / YSI 556 / Horiba U-22 / Other (Specify):

Time	Volume Purge (gal)	Temp (deg C)	pH	Conductivity (µs/cm)	TDS (ppm)	Turbidity / Color	DO mg/L	ORP
1306	10 1316	25.6	9.37			VT		
1322	15	23.6	9.36			VT		
1330	20	21.8	9.39			T		
	25	21.7	9.39			T		
	30	21.5	9.46			T		
1340	35	21.3	9.45			T		
	40	21.2	9.42			T		
	45	"	"			T		
	50	21.3	9.42			T		

Product Sheen Yes (No) Dewatered Yes No

Petroleum Hydrocarbon Odor Yes (No)

Comments: organic odor

Sample Data

Sample Time:

Container Type	Number of Containers	Preservative

Well Condition

Well Box	OK	Not OK
Well Box Lid	OK	Not OK
Bolts	OK	Not OK
Casing Cap	OK	Not OK
Lock	OK	Not OK
LDPE Tubing	OK	Not OK
Grout	OK	Not OK

Weather Conditions:

Problems Encountered:

GROUNDWATER PURGE AND SAMPLE DATA

Wallace Kuhl & Associates Inc

Job Name: Crystal - Meridian	
Job #: 7528.04	**Date:** 6·15·07
Well ID: MW1	**Personnel:** AEF

Gauging Data

Measuring Equipment: (WLM) / IP

Measuring Reference Point Description: (TOC) Well Cap Pressurized: Yes / (No)

Well Purge Volume Calculation	Total Depth (feet)		Depth to Water (feet)		Water Column (feet)		Casing Diameter Multiplier				Casing Volume (gal)		Casing Volumes to Purge		Total Purge Volume (gal)
	25	-	17.9	=	7.1	x	3/4	(2)	4	6	1.16	x	3	=	3.5
							0.023	0.163	0.653	1.469					

Purging Data

Purge Method: Bailer / (Submersible Pump) / Foot Valve / Other (Specify):

Multi-parameter Meter Used: (Hanna) / YSI 556 / Horiba U-22 / Other (Specify):

Time	Volume Purge (gal)	Temp (deg C)	pH	Conductivity (µs/cm)	TDS (ppm)	Turbidity / Color	DO mg/L	ORP
	1	23.0	8.1	950	490	C		
	2	22.8	8.0	952	467	|		
	3	22.6	7.9	935	466	|		
	4	22.4	7.8	948	474	|		
	5	22.2	7.8	~~956~~	478	|		

Product Sheen Yes (No)

Petroleum Hydrocarbon Odor Yes (No)

Dewatered Yes (No)

Comments:

Sample Data

Sample Time:

Container Type	Number of Containers	Preservative
Voa	6	HCl
Amber	2	Na_2SO_3

Well Condition

Well Box	(OK)	Not OK
Well Box Lid	(OK)	Not OK
Bolts	(OK)	Not OK
Casing Cap	(OK)	Not OK
Lock	(OK)	Not OK
LDPE Tubing	(OK)	Not OK
Grout	(OK)	Not OK

Weather Conditions:

Problems Encountered:

EKM

GROUNDWATER PURGE AND SAMPLE DATA

Wallace Kuhl & Associates Inc

Job Name: CRYSTAL - MERIDIAN	
Job #: 7528.04	**Date:** 6-15-07
Well ID: MW2	**Personnel:** ABF

Gauging Data

Measuring Equipment: (WLM) / IP

Measuring Reference Point Description: (TOC) Well Cap Pressurized: Yes / (No)

Well Purge Volume Calculation	Total Depth (feet)		Depth to Water (feet)		Water Column (feet)		Casing Diameter Multiplier				Casing Volume (gal)		Casing Volumes to Purge		Total Purge Volume (gal)
	~~25~~ 25	-	17.86	=	7.14	x	3/4	(2)	4	6	1.16	x	3	=	3.5
							0.023	(0.163)	0.653	1.469					

Purging Data

Purge Method: Bailer / (Submersible Pump) / Foot Valve / Other (Specify):

Multi-parameter Meter Used: (Hanna) / YSI 556 / Horiba U-22 / Other (Specify):

Time	Volume Purge (gal)	Temp (deg C)	pH	Conductivity (µs/cm)	TDS (ppm)	Turbidity / Color	DO mg/L	ORP
	1	22.8	8.01	1337	655	C		
	2	22.5	7.98	1294	657			
	3	22.4	7.95	1290	655			
	4	22.3	7.96	1309	659			
	5	22.1	7.95	1327	664			

Product Sheen Yes (No)

Petroleum Hydrocarbon Odor Yes (No)

Dewatered Yes (No)

Comments:

Sample Data

Sample Time:

Container Type	Number of Containers	Preservative
Voa	6	HCl
AMBER	2	Na_2SO_3

Well Condition

Well Box	OK	Not OK
Well Box Lid	OK	Not OK
Bolts	OK	Not OK
Casing Cap	OK	Not OK
Lock	OK	Not OK
LDPE Tubing	OK	Not OK
Grout	OK	Not OK

Weather Conditions:

Problems Encountered:

EKM

GROUNDWATER PURGE AND SAMPLE DATA

Wallace Kuhl & Associates Inc

Job Name: CRYSTAL - MERIDIAN	
Job #: 7528.04	**Date:** 6-15-07
Well ID: MW3	**Personnel:** ABF

Gauging Data

Measuring Equipment: (WLM) / IP

Measuring Reference Point Description: (TOC) Well Cap Pressurized: Yes / (No)

Well Purge Volume Calculation	Total Depth (feet)		Depth to Water (feet)		Water Column (feet)		Casing Diameter Multiplier				Casing Volume (gal)		Casing Volumes to Purge		Total Purge Volume (gal)
							3/4	2	4	6					
	25	-	17.42	=	7.58	x	0.023	0.163	0.653	1.469	= 1.24	x	3	=	3.7

Purging Data

Purge Method: Bailer / (Submersible Pump) / Foot Valve / Other (Specify):

Multi-parameter Meter Used: (Hanna) / YSI 556 / Horiba U-22 / Other (Specify):

Time	Volume Purge (gal)	Temp (deg C)	pH	Conductivity (µs/cm)	TDS (ppm)	Turbidity / Color	DO mg/L	ORP
	1	22.3	7.99	1201	599	T		
	2	22.2	7.81	1203	607	|		
	3	22.0	7.74	1198	621	|		
	4	21.9	7.77	1235	628	|		
	5	21.8	7.75	1253	627	|		

Product Sheen Yes (No)

Petroleum Hydrocarbon Odor Yes (No)

Dewatered Yes (No)

Comments:

Sample Data

Sample Time:

Container Type	Number of Containers	Preservative
Voa	6	HCl
AMBER	2	Na_2SO_3

Well Condition

Well Box	OK	Not OK
Well Box Lid	OK	Not OK
Bolts	OK	Not OK
Casing Cap	OK	Not OK
Lock	OK	Not OK
LDPE Tubing	OK	Not OK
Grout	OK	Not OK

Weather Conditions:

Problems Encountered:

FKM

GROUNDWATER PURGE AND SAMPLE DATA

Wallace Kuhl & Associates Inc

Job Name: Crystal Creamery - Meridian	
Job #: 7528.03	**Date: 7/6/07**
Well ID: MW-1	**Personnel:** CJK

Gauging Data

Measuring Equipment: WLM / IP

Measuring Reference Point Description: TOC Well Cap Pressurized: Yes / No

Well Purge Volume Calculation	Total Depth (feet)		Depth to Water (feet)		Water Column (feet)		Casing Diameter Multiplier				Casing Volume (gal)		Casing Volumes to Purge		Total Purge Volume (gal)
	24.82	-	18.37	=	6.45	x	3/4	(2)	4	6	1.03	x	3	=	3.09
							0.023	0.163	0.653	1.469					

Purging Data

Purge Method: (Bailer) / Submersible Pump / Foot Valve / Other (Specify):

Multi-parameter Meter Used: (Hanna) / YSI 556 / Horiba U-22 / Other (Specify):

Time	Volume Purge (gal)	Temp (deg C)	pH	Conductivity (µs/cm)	TDS (ppm)	Turbidity / Color	DO mg/L	ORP
1314	1	28.2	9.09	887	447	mod Turbid		
1317	2	24.9	9.31	901	442	mod Turbid		
1321	3.1	23.6	9.29	891	451	mod Turbid		

Product Sheen Yes No Dewatered Yes No

Petroleum Hydrocarbon Odor Yes No

Comments:

Sample Data

Sample Time: 1330

Container Type	Number of Containers	Preservative
VOA	6	HCl
Amber	2	Na_2SO_3

Well Condition

Well Box	OK	Not OK
Well Box Lid	OK	Not OK
Bolts	OK	Not OK
Casing Cap	OK	Not OK
Lock	OK	Not OK
LDPE Tubing	OK	Not OK
Grout	OK	Not OK

Weather Conditions: Clear, 90's

Problems Encountered:

EHM

GROUNDWATER PURGE AND SAMPLE DATA

Wallace Kuhl & Associates Inc

Job Name: Crystal Creamery - Meridian	
Job #: 7528.03	**Date: 7/6/07**
Well ID: MW-2	**Personnel:** CJK

Gauging Data

Measuring Equipment: WLM / IP

Measuring Reference Point Description: TOC Well Cap Pressurized: Yes / No

Well Purge Volume Calculation	Total Depth (feet)		Depth to Water (feet)		Water Column (feet)		Casing Diameter Multiplier				Casing Volume (gal)		Casing Volumes to Purge		Total Purge Volume (gal)
	24.95	-	18.33	=	6.62	x	3/4	(2)	4	6	1.05	x	3	=	3.15
							0.023	0.163	0.653	1.469					

Purging Data

Purge Method: (Bailer) / Submersible Pump / Foot Valve / Other (Specify):

Multi-parameter Meter Used: ~~Hanna~~ / YSI 556 / Horiba U-22 / Other (Specify):

Time	Volume Purge (gal)	Temp (deg C)	pH	Conductivity (µs/cm)	TDS (ppm)	Turbidity / Color	DO mg/L	ORP
1449	1	28.2	9.25	1261	622	Clear		
1451	2	24.6	9.30	1231	618	clear		
1453	3.15	23.0	9.43	1236	615	clear		

Product Sheen Yes No Dewatered Yes No

Petroleum Hydrocarbon Odor Yes No

Comments:

Sample Data

Sample Time: 1500

Container Type	Number of Containers	Preservative
VOA	6	HCl
Amber	2	Na_2SO_3

Well Condition

Well Box	OK	Not OK
Well Box Lid	OK	Not OK
Bolts	OK	Not OK
Casing Cap	OK	Not OK
Lock	OK	Not OK
LDPE Tubing	OK	Not OK
Grout	OK	Not OK

Weather Conditions:

Problems Encountered:

EHM

GROUNDWATER PURGE AND SAMPLE DATA

Wallace Kuhl & Associates Inc

Job Name: Crystal Creamery - Meridian	
Job #: 7528.03	**Date: 7/6/07**
Well ID: MW-3	**Personnel:** CJK

Gauging Data

Measuring Equipment: WLM / IP

Measuring Reference Point Description: TOC Well Cap Pressurized: Yes / No

Well Purge Volume Calculation	Total Depth (feet)		Depth to Water (feet)		Water Column (feet)		Casing Diameter Multiplier				Casing Volume (gal)		Casing Volumes to Purge		Total Purge Volume (gal)
	21.86	-	17.92	=	3.94	x	3/4	2	4	6	= 0.63	x	3	=	1.89
							0.023	0.163	0.653	1.469					

Purging Data

Purge Method: Bailer / Submersible Pump / Foot Valve / Other (Specify):

Multi-parameter Meter Used: Hanna / YSI 556 / Horiba U-22 / Other (Specify):

Time	Volume Purge (gal)	Temp (deg C)	pH	Conductivity (µs/cm)	TDS (ppm)	Turbidity / Color	DO mg/L	ORP
1	1402	28.9	9.41	1125	567	very Turbid		
1.5	1405	24.0	9.47	1140	569	Mod		
2	1409	22.3	9.42	1152	567	mod		

Product Sheen Yes No Dewatered Yes No

Petroleum Hydrocarbon Odor Yes No

Comments:

Sample Data

Sample Time: 1415

Container Type	Number of Containers	Preservative
VOA	6	HCl
Amber	2	Na_2SO_3

Well Condition

Well Box	OK	Not OK
Well Box Lid	OK	Not OK
Bolts	OK	Not OK
Casing Cap	OK	Not OK
Lock	OK	Not OK
LDPE Tubing	OK	Not OK
Grout	OK	Not OK

Weather Conditions:

Problems Encountered:

EKM

APPENDIX C

Laboratory Analytical Reports
and
Chain-of-Custody Documentation

KIFF Analytical LLC

Report Number : 55902
Date : 5/17/2007

Scott Armstrong
Wallace-Kuhl & Associates
3251 Beacon Boulevard, Suite 200
West Sacramento, CA 95691

Subject : 11 Soil Samples and 14 Water Samples
Project Name : Crystal Creamery
Project Number : 7528.03

Dear Mr. Armstrong,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Joel Kiff

KIFF Analytical LLC

Report Number : 55902
Date : 5/17/2007

Subject : 11 Soil Samples and 14 Water Samples
Project Name : Crystal Creamery
Project Number : 7528.03

Case Narrative

Hydrocarbons reported as TPH as Diesel do not exhibit a typical Diesel chromatographic pattern for samples B5-GW, B6-GW, B10-GW, B11-GW, B12-GW, B13-GW, B16-GW and B19-GW . There are discrete peaks which may or may not be petroleum related.

Hydrocarbons reported as TPH as Diesel do not exhibit a typical Diesel chromatographic pattern for samples B1-GW, B2-GW, and B8-3. These hydrocarbons are higher boiling than typical diesel fuel. The chromatographic patterns for these samples are consistent with patterns observed in previous sampling events from permanent monitoring wells at this site.

Samples B2-12, B3-12, B4-10, B10-11, and B16-10 have reported values for TPH as Diesel but the concentrations are so low that the chromatographic patterns for these samples are not distinct enough to interpret.

Sample B17-11 was extracted out of hold time, but the reported concentration should be reasonably representative because this range of hydrocarbons does not typically decompose appreciably when stored at 4 degrees Celcius. The chromatographic pattern for this sample may represent a fuel oil.

Matrix Spike/Matrix Spike Duplicate Results associated with sample B17-11 for the analyte TPH as Diesel were affected by the analyte concentrations already present in the un-spiked sample.

Approved By: Joel Kiff

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 55902
Date : 5/17/2007

Project Name : **Crystal Creamery**
Project Number : **7528.03**

Sample : **B1-GW** Matrix : Water Lab Number : 55902-01
Sample Date :4/10/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel (Silica Gel)	**220**	50	ug/L	M EPA 8015	4/21/2007
TPH as Motor Oil (w/ Silica Gel)	**500**	100	ug/L	M EPA 8015	4/21/2007
TPH as Diesel	**570**	50	ug/L	M EPA 8015	4/13/2007
TPH as Motor Oil	**980**	100	ug/L	M EPA 8015	4/13/2007
Octacosane (Diesel Silica Gel Surr)	100		% Recovery	M EPA 8015	4/21/2007
Octacosane (Diesel Surrogate)	102		% Recovery	M EPA 8015	4/13/2007

Sample : **B2-GW** Matrix : Water Lab Number : 55902-02
Sample Date :4/10/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel (Silica Gel)	**140**	50	ug/L	M EPA 8015	4/21/2007
TPH as Motor Oil (w/ Silica Gel)	**1000**	100	ug/L	M EPA 8015	4/21/2007
TPH as Diesel	**570**	50	ug/L	M EPA 8015	4/13/2007
TPH as Motor Oil	**1800**	100	ug/L	M EPA 8015	4/13/2007
Octacosane (Diesel Silica Gel Surr)	103		% Recovery	M EPA 8015	4/21/2007
Octacosane (Diesel Surrogate)	107		% Recovery	M EPA 8015	4/13/2007

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 55902
Date : 5/17/2007

Project Name : **Crystal Creamery**
Project Number : **7528.03**

Sample : **B3-GW** Matrix : Water Lab Number : 55902-03
Sample Date :4/10/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	**250**	50	ug/L	M EPA 8015	4/13/2007
TPH as Motor Oil	**< 100**	100	ug/L	M EPA 8015	4/13/2007
Octacosane (Diesel Surrogate)	99.0		% Recovery	M EPA 8015	4/13/2007

Sample : **B4-GW** Matrix : Water Lab Number : 55902-04
Sample Date :4/10/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	**< 50**	50	ug/L	M EPA 8015	4/17/2007
TPH as Motor Oil	**< 100**	100	ug/L	M EPA 8015	4/17/2007
Octacosane (Diesel Surrogate)	99.5		% Recovery	M EPA 8015	4/17/2007

Sample : **B5-GW** Matrix : Water Lab Number : 55902-05
Sample Date :4/10/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	**69**	50	ug/L	M EPA 8015	4/17/2007
TPH as Motor Oil	**< 100**	100	ug/L	M EPA 8015	4/17/2007
Octacosane (Diesel Surrogate)	103		% Recovery	M EPA 8015	4/17/2007

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 55902
Date : 5/17/2007

Project Name : **Crystal Creamery**
Project Number : **7528.03**

Sample : **B6-GW** Matrix : Water Lab Number : 55902-06
Sample Date :4/10/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	**56**	50	ug/L	M EPA 8015	4/17/2007
TPH as Motor Oil	**< 100**	100	ug/L	M EPA 8015	4/17/2007
Octacosane (Diesel Surrogate)	108		% Recovery	M EPA 8015	4/17/2007

Sample : **B10-GW** Matrix : Water Lab Number : 55902-07
Sample Date :4/10/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	**74**	50	ug/L	M EPA 8015	4/17/2007
TPH as Motor Oil	**< 100**	100	ug/L	M EPA 8015	4/17/2007
Octacosane (Diesel Surrogate)	105		% Recovery	M EPA 8015	4/17/2007

Sample : **B11-GW** Matrix : Water Lab Number : 55902-08
Sample Date :4/10/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	**340**	50	ug/L	M EPA 8015	4/17/2007
TPH as Motor Oil	**< 100**	100	ug/L	M EPA 8015	4/17/2007
Octacosane (Diesel Surrogate)	109		% Recovery	M EPA 8015	4/17/2007

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 55902
Date : 5/17/2007

Project Name : **Crystal Creamery**
Project Number : **7528.03**

Sample : **B12-GW** Matrix : Water Lab Number : 55902-09
Sample Date :4/10/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	**190**	50	ug/L	M EPA 8015	4/19/2007
TPH as Motor Oil	**< 100**	100	ug/L	M EPA 8015	4/19/2007
Octacosane (Diesel Surrogate)	104		% Recovery	M EPA 8015	4/19/2007

Sample : **B13-GW** Matrix : Water Lab Number : 55902-10
Sample Date :4/11/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	**180**	50	ug/L	M EPA 8015	4/14/2007
TPH as Motor Oil	**< 100**	100	ug/L	M EPA 8015	4/14/2007
Octacosane (Diesel Surrogate)	104		% Recovery	M EPA 8015	4/14/2007

Sample : **B16-GW** Matrix : Water Lab Number : 55902-11
Sample Date :4/11/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	**140**	50	ug/L	M EPA 8015	4/14/2007
TPH as Motor Oil	**< 100**	100	ug/L	M EPA 8015	4/14/2007
Octacosane (Diesel Surrogate)	105		% Recovery	M EPA 8015	4/14/2007

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 55902
Date : 5/17/2007

Project Name : **Crystal Creamery**
Project Number : **7528.03**

Sample : **B17-GW** Matrix : Water Lab Number : 55902-12
Sample Date :4/11/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	**< 50**	50	ug/L	M EPA 8015	4/19/2007
TPH as Motor Oil	**< 100**	100	ug/L	M EPA 8015	4/19/2007
Octacosane (Diesel Surrogate)	104		% Recovery	M EPA 8015	4/19/2007

Sample : **B18-GW** Matrix : Water Lab Number : 55902-13
Sample Date :4/11/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	**< 50**	50	ug/L	M EPA 8015	4/19/2007
TPH as Motor Oil	**< 100**	100	ug/L	M EPA 8015	4/19/2007
Octacosane (Diesel Surrogate)	104		% Recovery	M EPA 8015	4/19/2007

Sample : **B19-GW** Matrix : Water Lab Number : 55902-14
Sample Date :4/11/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	**75**	50	ug/L	M EPA 8015	4/19/2007
TPH as Motor Oil	**< 100**	100	ug/L	M EPA 8015	4/19/2007
Octacosane (Diesel Surrogate)	94.6		% Recovery	M EPA 8015	4/19/2007

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 55902
Date : 5/17/2007

Project Name : **Crystal Creamery**
Project Number : **7528.03**

Sample : **B2-12** Matrix : Soil Lab Number : 55902-15
Sample Date :4/10/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	**4.7**	1.0	mg/Kg	M EPA 8015	4/13/2007
TPH as Motor Oil	**< 10**	10	mg/Kg	M EPA 8015	4/13/2007
1-Chlorooctadecane (Diesel Surrogate)	82.0		% Recovery	M EPA 8015	4/13/2007

Sample : **B3-12** Matrix : Soil Lab Number : 55902-16
Sample Date :4/10/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	**4.0**	1.0	mg/Kg	M EPA 8015	4/13/2007
TPH as Motor Oil	**< 10**	10	mg/Kg	M EPA 8015	4/13/2007
1-Chlorooctadecane (Diesel Surrogate)	98.6		% Recovery	M EPA 8015	4/13/2007

Sample : **B4-10** Matrix : Soil Lab Number : 55902-17
Sample Date :4/10/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	**6.1**	1.0	mg/Kg	M EPA 8015	4/13/2007
TPH as Motor Oil	**< 10**	10	mg/Kg	M EPA 8015	4/13/2007
1-Chlorooctadecane (Diesel Surrogate)	80.9		% Recovery	M EPA 8015	4/13/2007

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 55902
Date : 5/17/2007

Project Name : **Crystal Creamery**
Project Number : **7528.03**

Sample : **B7-10** Matrix : Soil Lab Number : 55902-18
Sample Date :4/11/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	**< 1.0**	1.0	mg/Kg	M EPA 8015	4/13/2007
TPH as Motor Oil	**< 10**	10	mg/Kg	M EPA 8015	4/13/2007
1-Chlorooctadecane (Diesel Surrogate)	88.1		% Recovery	M EPA 8015	4/13/2007

Sample : **B8-3** Matrix : Soil Lab Number : 55902-19
Sample Date :4/11/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	**4.5**	1.0	mg/Kg	M EPA 8015	4/13/2007
TPH as Motor Oil	**< 10**	10	mg/Kg	M EPA 8015	4/13/2007
1-Chlorooctadecane (Diesel Surrogate)	89.6		% Recovery	M EPA 8015	4/13/2007

Sample : **B10-11** Matrix : Soil Lab Number : 55902-21
Sample Date :4/10/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	**1.4**	1.0	mg/Kg	M EPA 8015	4/13/2007
TPH as Motor Oil	**< 10**	10	mg/Kg	M EPA 8015	4/13/2007
1-Chlorooctadecane (Diesel Surrogate)	94.2		% Recovery	M EPA 8015	4/13/2007

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 55902
Date : 5/17/2007

Project Name : **Crystal Creamery**
Project Number : **7528.03**

Sample : **B14-5** Matrix : Soil Lab Number : 55902-23
Sample Date :4/11/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	**< 1.0**	1.0	mg/Kg	M EPA 8015	4/13/2007
TPH as Motor Oil	**< 10**	10	mg/Kg	M EPA 8015	4/13/2007
1-Chlorooctadecane (Diesel Surrogate)	88.8		% Recovery	M EPA 8015	4/13/2007

Sample : **B15-5** Matrix : Soil Lab Number : 55902-24
Sample Date :4/11/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	**< 1.0**	1.0	mg/Kg	M EPA 8015	4/13/2007
TPH as Motor Oil	**< 10**	10	mg/Kg	M EPA 8015	4/13/2007
1-Chlorooctadecane (Diesel Surrogate)	113		% Recovery	M EPA 8015	4/13/2007

Sample : **B16-10** Matrix : Soil Lab Number : 55902-25
Sample Date :4/11/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	**1.2**	1.0	mg/Kg	M EPA 8015	4/13/2007
TPH as Motor Oil	**< 10**	10	mg/Kg	M EPA 8015	4/13/2007
1-Chlorooctadecane (Diesel Surrogate)	124		% Recovery	M EPA 8015	4/13/2007

Approved By: Joel Kiff

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KIFF Analytical LLC

Report Number : 55902
Date : 5/17/2007

Project Name : **Crystal Creamery**
Project Number : **7528.03**

Sample : **B17-11** Matrix : Soil Lab Number : 55902-26
Sample Date :4/11/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	**14000**	100	mg/Kg	M EPA 8015	4/28/2007
TPH as Motor Oil	**9000**	800	mg/Kg	M EPA 8015	4/28/2007
1-Chlorooctadecane (Diesel Surrogate)	Diluted Out		% Recovery	M EPA 8015	4/28/2007

Approved By: Joel Kiff

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KIFF Analytical LLC

Report Number : 55902
Date : 5/17/2007

Sample : **B1-GW**
Project Name : **Crystal Creamery**
Project Number : **7528.03** Lab Number : 55902-01 Date Analyzed : 4/14/2007
Matrix : Water Sample Date : 4/10/2007 Analysis Method: EPA 8260B

Parameter	Measured Value	MRL [1]	Units
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L
TPH as Gasoline	< 50	50	ug/L
Dichlorodifluoromethane	< 0.50	0.50	ug/L
Chloromethane	< 0.50	0.50	ug/L
Vinyl Chloride	< 0.50	0.50	ug/L
Bromomethane	< 20	20	ug/L
Chloroethane	< 0.50	0.50	ug/L
Trichlorofluoromethane	< 0.50	0.50	ug/L
1,1-Dichloroethene	< 0.50	0.50	ug/L
Methylene Chloride	< 5.0	5.0	ug/L
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L
1,1-Dichloroethane	< 0.50	0.50	ug/L
2,2-Dichloropropane	< 0.50	0.50	ug/L
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L
Chloroform	< 0.50	0.50	ug/L
Bromochloromethane	< 0.50	0.50	ug/L
1,1,1-Trichloroethane	< 0.50	0.50	ug/L
1,1-Dichloropropene	< 0.50	0.50	ug/L
1,2-Dichloroethane	< 0.50	0.50	ug/L
Carbon Tetrachloride	< 0.50	0.50	ug/L
Benzene	< 0.50	0.50	ug/L
Trichloroethene	< 0.50	0.50	ug/L
1,2-Dichloropropane	< 0.50	0.50	ug/L
Bromodichloromethane	< 0.50	0.50	ug/L
Dibromomethane	< 0.50	0.50	ug/L
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L
Toluene	< 0.50	0.50	ug/L
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L
1,1,2-Trichloroethane	< 0.50	0.50	ug/L
1,3-Dichloropropane	< 0.50	0.50	ug/L
Tetrachloroethene	< 0.50	0.50	ug/L
Dibromochloromethane	< 0.50	0.50	ug/L
1,2-Dibromoethane	< 0.50	0.50	ug/L
Chlorobenzene	< 0.50	0.50	ug/L
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L
Ethylbenzene	< 0.50	0.50	ug/L
P,M-Xylene	< 1.0	1.0	ug/L
O-Xylene	< 0.50	0.50	ug/L

Parameter	Measured Value	MRL [1]	Units
Styrene	< 0.50	0.50	ug/L
Isopropyl benzene	< 0.50	0.50	ug/L
Bromoform	< 0.50	0.50	ug/L
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L
1,2,3-Trichloropropane	< 0.50	0.50	ug/L
n-Propylbenzene	< 0.50	0.50	ug/L
Bromobenzene	< 0.50	0.50	ug/L
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L
2+4-Chlorotoluene	< 1.0	1.0	ug/L
tert-Butylbenzene	< 0.50	0.50	ug/L
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L
sec-Butylbenzene	< 0.50	0.50	ug/L
p-Isopropyltoluene	< 0.50	0.50	ug/L
1,3-Dichlorobenzene	< 0.50	0.50	ug/L
1,4-Dichlorobenzene	< 0.50	0.50	ug/L
n-Butylbenzene	< 0.50	0.50	ug/L
1,2-Dichlorobenzene	< 0.50	0.50	ug/L
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L
Hexachlorobutadiene	< 0.50	0.50	ug/L
Naphthalene	< 0.50	0.50	ug/L
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L
1,2-Dichloroethane-d4 (Surr)	101		% Recovery
Toluene-d8 (Surr)	97.9		% Recovery
4-Bromofluorobenzene (Surr)	86.8		% Recovery

1) MRL = Method reporting limit
2) MRL raised due to interference

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 55902
Date : 5/17/2007

Sample : **B2-GW**
Project Name : **Crystal Creamery**
Project Number : **7528.03** Lab Number : 55902-02 Date Analyzed : 4/14/2007
Matrix : Water Sample Date :4/10/2007 Analysis Method: EPA 8260B

Parameter	Measured Value	MRL [1]	Units
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L
TPH as Gasoline	< 50	50	ug/L
Dichlorodifluoromethane	< 0.50	0.50	ug/L
Chloromethane	< 0.50	0.50	ug/L
Vinyl Chloride	< 0.50	0.50	ug/L
Bromomethane	< 20	20	ug/L
Chloroethane	< 0.50	0.50	ug/L
Trichlorofluoromethane	< 0.50	0.50	ug/L
1,1-Dichloroethene	< 0.50	0.50	ug/L
Methylene Chloride	< 5.0	5.0	ug/L
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L
1,1-Dichloroethane	< 0.50	0.50	ug/L
2,2-Dichloropropane	< 0.50	0.50	ug/L
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L
Chloroform	< 0.50	0.50	ug/L
Bromochloromethane	< 0.50	0.50	ug/L
1,1,1-Trichloroethane	< 0.50	0.50	ug/L
1,1-Dichloropropene	< 0.50	0.50	ug/L
1,2-Dichloroethane	< 0.50	0.50	ug/L
Carbon Tetrachloride	< 0.50	0.50	ug/L
Benzene	< 0.50	0.50	ug/L
Trichloroethene	< 0.50	0.50	ug/L
1,2-Dichloropropane	< 0.50	0.50	ug/L
Bromodichloromethane	< 0.50	0.50	ug/L
Dibromomethane	< 0.50	0.50	ug/L
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L
Toluene	< 0.50	0.50	ug/L
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L
1,1,2-Trichloroethane	< 0.50	0.50	ug/L
1,3-Dichloropropane	< 0.50	0.50	ug/L
Tetrachloroethene	< 0.50	0.50	ug/L
Dibromochloromethane	< 0.50	0.50	ug/L
1,2-Dibromoethane	< 0.50	0.50	ug/L
Chlorobenzene	< 0.50	0.50	ug/L
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L
Ethylbenzene	< 0.50	0.50	ug/L
P,M-Xylene	< 1.0	1.0	ug/L
O-Xylene	< 0.50	0.50	ug/L

Parameter	Measured Value	MRL [1]	Units
Styrene	< 0.50	0.50	ug/L
Isopropyl benzene	< 0.50	0.50	ug/L
Bromoform	< 0.50	0.50	ug/L
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L
1,2,3-Trichloropropane	< 0.50	0.50	ug/L
n-Propylbenzene	< 0.50	0.50	ug/L
Bromobenzene	< 0.50	0.50	ug/L
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L
2+4-Chlorotoluene	< 1.0	1.0	ug/L
tert-Butylbenzene	< 0.50	0.50	ug/L
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L
sec-Butylbenzene	< 0.50	0.50	ug/L
p-Isopropyltoluene	< 0.50	0.50	ug/L
1,3-Dichlorobenzene	< 0.50	0.50	ug/L
1,4-Dichlorobenzene	< 0.50	0.50	ug/L
n-Butylbenzene	< 0.50	0.50	ug/L
1,2-Dichlorobenzene	< 0.50	0.50	ug/L
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L
Hexachlorobutadiene	< 0.50	0.50	ug/L
Naphthalene	**1.2**	0.50	ug/L
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L
1,2-Dichloroethane-d4 (Surr)	97.6		% Recovery
Toluene-d8 (Surr)	97.9		% Recovery
4-Bromofluorobenzene (Surr)	86.5		% Recovery

1) MRL = Method reporting limit
2) MRL raised due to interference

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 55902
Date : 5/17/2007

Sample : **B3-GW**
Project Name : **Crystal Creamery**
Project Number : **7528.03** Lab Number : 55902-03 Date Analyzed : 4/14/2007
Matrix : Water Sample Date : 4/10/2007 Analysis Method: EPA 8260B

Parameter	Measured Value	MRL [1]	Units
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L
TPH as Gasoline	< 50	50	ug/L
Dichlorodifluoromethane	< 0.50	0.50	ug/L
Chloromethane	< 0.50	0.50	ug/L
Vinyl Chloride	< 0.50	0.50	ug/L
Bromomethane	< 20	20	ug/L
Chloroethane	< 0.50	0.50	ug/L
Trichlorofluoromethane	< 0.50	0.50	ug/L
1,1-Dichloroethene	< 0.50	0.50	ug/L
Methylene Chloride	< 5.0	5.0	ug/L
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L
1,1-Dichloroethane	< 0.50	0.50	ug/L
2,2-Dichloropropane	< 0.50	0.50	ug/L
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L
Chloroform	< 0.50	0.50	ug/L
Bromochloromethane	< 0.50	0.50	ug/L
1,1,1-Trichloroethane	< 0.50	0.50	ug/L
1,1-Dichloropropene	< 0.50	0.50	ug/L
1,2-Dichloroethane	< 0.50	0.50	ug/L
Carbon Tetrachloride	< 0.50	0.50	ug/L
Benzene	< 0.50	0.50	ug/L
Trichloroethene	< 0.50	0.50	ug/L
1,2-Dichloropropane	< 0.50	0.50	ug/L
Bromodichloromethane	< 0.50	0.50	ug/L
Dibromomethane	< 0.50	0.50	ug/L
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L
Toluene	< 0.50	0.50	ug/L
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L
1,1,2-Trichloroethane	< 0.50	0.50	ug/L
1,3-Dichloropropane	< 0.50	0.50	ug/L
Tetrachloroethene	< 0.50	0.50	ug/L
Dibromochloromethane	< 0.50	0.50	ug/L
1,2-Dibromoethane	< 0.50	0.50	ug/L
Chlorobenzene	< 0.50	0.50	ug/L
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L
Ethylbenzene	< 0.50	0.50	ug/L
P,M-Xylene	< 1.0	1.0	ug/L
O-Xylene	< 0.50	0.50	ug/L

Parameter	Measured Value	MRL [1]	Units
Styrene	< 0.50	0.50	ug/L
Isopropyl benzene	< 0.50	0.50	ug/L
Bromoform	< 0.50	0.50	ug/L
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L
1,2,3-Trichloropropane	< 0.50	0.50	ug/L
n-Propylbenzene	< 0.50	0.50	ug/L
Bromobenzene	< 0.50	0.50	ug/L
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L
2+4-Chlorotoluene	< 1.0	1.0	ug/L
tert-Butylbenzene	< 0.50	0.50	ug/L
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L
sec-Butylbenzene	< 0.50	0.50	ug/L
p-Isopropyltoluene	< 0.50	0.50	ug/L
1,3-Dichlorobenzene	< 0.50	0.50	ug/L
1,4-Dichlorobenzene	< 0.50	0.50	ug/L
n-Butylbenzene	< 0.50	0.50	ug/L
1,2-Dichlorobenzene	< 0.50	0.50	ug/L
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L
Hexachlorobutadiene	< 0.50	0.50	ug/L
Naphthalene	< 0.50	0.50	ug/L
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L
1,2-Dichloroethane-d4 (Surr)	103		% Recovery
Toluene-d8 (Surr)	101		% Recovery
4-Bromofluorobenzene (Surr)	100		% Recovery

1) MRL = Method reporting limit
2) MRL raised due to interference

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 55902
Date : 5/17/2007

Sample : **B4-GW**
Project Name : **Crystal Creamery**
Project Number : **7528.03** Lab Number : 55902-04 Date Analyzed : 4/14/2007
Matrix : Water Sample Date : 4/10/2007 Analysis Method: EPA 8260B

Parameter	Measured Value	MRL [1]	Units
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L
TPH as Gasoline	< 50	50	ug/L
Dichlorodifluoromethane	< 0.50	0.50	ug/L
Chloromethane	< 0.50	0.50	ug/L
Vinyl Chloride	< 0.50	0.50	ug/L
Bromomethane	< 20	20	ug/L
Chloroethane	< 0.50	0.50	ug/L
Trichlorofluoromethane	< 0.50	0.50	ug/L
1,1-Dichloroethene	< 0.50	0.50	ug/L
Methylene Chloride	< 5.0	5.0	ug/L
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L
1,1-Dichloroethane	< 0.50	0.50	ug/L
2,2-Dichloropropane	< 0.50	0.50	ug/L
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L
Chloroform	**3.9**	0.50	ug/L
Bromochloromethane	< 0.50	0.50	ug/L
1,1,1-Trichloroethane	< 0.50	0.50	ug/L
1,1-Dichloropropene	< 0.50	0.50	ug/L
1,2-Dichloroethane	< 0.50	0.50	ug/L
Carbon Tetrachloride	< 0.50	0.50	ug/L
Benzene	< 0.50	0.50	ug/L
Trichloroethene	< 0.50	0.50	ug/L
1,2-Dichloropropane	< 0.50	0.50	ug/L
Bromodichloromethane	< 0.50	0.50	ug/L
Dibromomethane	< 0.50	0.50	ug/L
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L
Toluene	< 0.50	0.50	ug/L
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L
1,1,2-Trichloroethane	< 0.50	0.50	ug/L
1,3-Dichloropropane	< 0.50	0.50	ug/L
Tetrachloroethene	< 0.50	0.50	ug/L
Dibromochloromethane	< 0.50	0.50	ug/L
1,2-Dibromoethane	< 0.50	0.50	ug/L
Chlorobenzene	< 0.50	0.50	ug/L
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L
Ethylbenzene	< 0.50	0.50	ug/L
P,M-Xylene	< 1.0	1.0	ug/L
O-Xylene	< 0.50	0.50	ug/L

Parameter	Measured Value	MRL [1]	Units
Styrene	< 0.50	0.50	ug/L
Isopropyl benzene	< 0.50	0.50	ug/L
Bromoform	< 0.50	0.50	ug/L
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L
1,2,3-Trichloropropane	< 0.50	0.50	ug/L
n-Propylbenzene	< 0.50	0.50	ug/L
Bromobenzene	< 0.50	0.50	ug/L
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L
2+4-Chlorotoluene	< 1.0	1.0	ug/L
tert-Butylbenzene	< 0.50	0.50	ug/L
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L
sec-Butylbenzene	< 0.50	0.50	ug/L
p-Isopropyltoluene	< 0.50	0.50	ug/L
1,3-Dichlorobenzene	< 0.50	0.50	ug/L
1,4-Dichlorobenzene	< 0.50	0.50	ug/L
n-Butylbenzene	< 0.50	0.50	ug/L
1,2-Dichlorobenzene	< 0.50	0.50	ug/L
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L
Hexachlorobutadiene	< 0.50	0.50	ug/L
Naphthalene	< 0.50	0.50	ug/L
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L
1,2-Dichloroethane-d4 (Surr)	99.0		% Recovery
Toluene-d8 (Surr)	97.5		% Recovery
4-Bromofluorobenzene (Surr)	86.3		% Recovery

1) MRL = Method reporting limit
2) MRL raised due to interference

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 55902

Date : 5/17/2007

Sample : **B5-GW**

Project Name : **Crystal Creamery**

Project Number : **7528.03** Lab Number : 55902-05 Date Analyzed : 4/14/2007

Matrix : Water Sample Date : 4/10/2007 Analysis Method: EPA 8260B

Parameter	Measured Value	MRL [1]	Units
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L
TPH as Gasoline	< 50	50	ug/L
Dichlorodifluoromethane	< 0.50	0.50	ug/L
Chloromethane	< 0.50	0.50	ug/L
Vinyl Chloride	< 0.50	0.50	ug/L
Bromomethane	< 20	20	ug/L
Chloroethane	< 0.50	0.50	ug/L
Trichlorofluoromethane	< 0.50	0.50	ug/L
1,1-Dichloroethene	< 0.50	0.50	ug/L
Methylene Chloride	< 5.0	5.0	ug/L
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L
1,1-Dichloroethane	< 0.50	0.50	ug/L
2,2-Dichloropropane	< 0.50	0.50	ug/L
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L
Chloroform	< 0.50	0.50	ug/L
Bromochloromethane	< 0.50	0.50	ug/L
1,1,1-Trichloroethane	< 0.50	0.50	ug/L
1,1-Dichloropropene	< 0.50	0.50	ug/L
1,2-Dichloroethane	< 0.50	0.50	ug/L
Carbon Tetrachloride	< 0.50	0.50	ug/L
Benzene	< 0.50	0.50	ug/L
Trichloroethene	< 0.50	0.50	ug/L
1,2-Dichloropropane	< 0.50	0.50	ug/L
Bromodichloromethane	< 0.50	0.50	ug/L
Dibromomethane	< 0.50	0.50	ug/L
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L
Toluene	< 0.50	0.50	ug/L
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L
1,1,2-Trichloroethane	< 0.50	0.50	ug/L
1,3-Dichloropropane	< 0.50	0.50	ug/L
Tetrachloroethene	< 0.50	0.50	ug/L
Dibromochloromethane	< 0.50	0.50	ug/L
1,2-Dibromoethane	< 0.50	0.50	ug/L
Chlorobenzene	< 0.50	0.50	ug/L
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L
Ethylbenzene	< 0.50	0.50	ug/L
P,M-Xylene	< 1.0	1.0	ug/L
O-Xylene	< 0.50	0.50	ug/L

Parameter	Measured Value	MRL [1]	Units
Styrene	< 0.50	0.50	ug/L
Isopropyl benzene	< 0.50	0.50	ug/L
Bromoform	< 0.50	0.50	ug/L
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L
1,2,3-Trichloropropane	< 0.50	0.50	ug/L
n-Propylbenzene	< 0.50	0.50	ug/L
Bromobenzene	< 0.50	0.50	ug/L
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L
2+4-Chlorotoluene	< 1.0	1.0	ug/L
tert-Butylbenzene	< 0.50	0.50	ug/L
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L
sec-Butylbenzene	< 0.50	0.50	ug/L
p-Isopropyltoluene	< 0.50	0.50	ug/L
1,3-Dichlorobenzene	< 0.50	0.50	ug/L
1,4-Dichlorobenzene	< 0.50	0.50	ug/L
n-Butylbenzene	< 0.50	0.50	ug/L
1,2-Dichlorobenzene	< 0.50	0.50	ug/L
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L
Hexachlorobutadiene	< 0.50	0.50	ug/L
Naphthalene	**0.75**	0.50	ug/L
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L
1,2-Dichloroethane-d4 (Surr)	99.8		% Recovery
Toluene-d8 (Surr)	96.5		% Recovery
4-Bromofluorobenzene (Surr)	89.1		% Recovery

1) MRL = Method reporting limit
2) MRL raised due to interference

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 55902
Date : 5/17/2007

Sample : **B6-GW**
Project Name : **Crystal Creamery**
Project Number : **7528.03** Lab Number : 55902-06 Date Analyzed : 4/14/2007
Matrix : Water Sample Date : 4/10/2007 Analysis Method: EPA 8260B

Parameter	Measured Value	MRL [1]	Units
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L
TPH as Gasoline	< 50	50	ug/L
Dichlorodifluoromethane	< 0.50	0.50	ug/L
Chloromethane	< 0.50	0.50	ug/L
Vinyl Chloride	< 0.50	0.50	ug/L
Bromomethane	< 20	20	ug/L
Chloroethane	< 0.50	0.50	ug/L
Trichlorofluoromethane	< 0.50	0.50	ug/L
1,1-Dichloroethene	< 0.50	0.50	ug/L
Methylene Chloride	< 5.0	5.0	ug/L
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L
1,1-Dichloroethane	< 0.50	0.50	ug/L
2,2-Dichloropropane	< 0.50	0.50	ug/L
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L
Chloroform	**10**	0.50	ug/L
Bromochloromethane	< 0.50	0.50	ug/L
1,1,1-Trichloroethane	< 0.50	0.50	ug/L
1,1-Dichloropropene	< 0.50	0.50	ug/L
1,2-Dichloroethane	< 0.50	0.50	ug/L
Carbon Tetrachloride	< 0.50	0.50	ug/L
Benzene	< 0.50	0.50	ug/L
Trichloroethene	< 0.50	0.50	ug/L
1,2-Dichloropropane	< 0.50	0.50	ug/L
Bromodichloromethane	< 0.50	0.50	ug/L
Dibromomethane	< 0.50	0.50	ug/L
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L
Toluene	< 0.50	0.50	ug/L
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L
1,1,2-Trichloroethane	< 0.50	0.50	ug/L
1,3-Dichloropropane	< 0.50	0.50	ug/L
Tetrachloroethene	< 0.50	0.50	ug/L
Dibromochloromethane	< 0.50	0.50	ug/L
1,2-Dibromoethane	< 0.50	0.50	ug/L
Chlorobenzene	< 0.50	0.50	ug/L
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L
Ethylbenzene	< 0.50	0.50	ug/L
P,M-Xylene	< 1.0	1.0	ug/L
O-Xylene	< 0.50	0.50	ug/L

Parameter	Measured Value	MRL [1]	Units
Styrene	< 0.50	0.50	ug/L
Isopropyl benzene	< 0.50	0.50	ug/L
Bromoform	< 0.50	0.50	ug/L
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L
1,2,3-Trichloropropane	< 0.50	0.50	ug/L
n-Propylbenzene	< 0.50	0.50	ug/L
Bromobenzene	< 0.50	0.50	ug/L
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L
2+4-Chlorotoluene	< 1.0	1.0	ug/L
tert-Butylbenzene	< 0.50	0.50	ug/L
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L
sec-Butylbenzene	< 0.50	0.50	ug/L
p-Isopropyltoluene	< 0.50	0.50	ug/L
1,3-Dichlorobenzene	< 0.50	0.50	ug/L
1,4-Dichlorobenzene	< 0.50	0.50	ug/L
n-Butylbenzene	< 0.50	0.50	ug/L
1,2-Dichlorobenzene	< 0.50	0.50	ug/L
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L
Hexachlorobutadiene	< 0.50	0.50	ug/L
Naphthalene	< 0.50	0.50	ug/L
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L
1,2-Dichloroethane-d4 (Surr)	100		% Recovery
Toluene-d8 (Surr)	96.5		% Recovery
4-Bromofluorobenzene (Surr)	88.1		% Recovery

1) MRL = Method reporting limit
2) MRL raised due to interference

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 55902
Date : 5/17/2007

Sample : **B10-GW**
Project Name : **Crystal Creamery**
Project Number : **7528.03** Lab Number : 55902-07 Date Analyzed : 4/14/2007
Matrix : Water Sample Date : 4/10/2007 Analysis Method: EPA 8260B

Parameter	Measured Value	MRL [1]	Units
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L
TPH as Gasoline	< 50	50	ug/L
Dichlorodifluoromethane	< 0.50	0.50	ug/L
Chloromethane	< 0.50	0.50	ug/L
Vinyl Chloride	< 0.50	0.50	ug/L
Bromomethane	< 20	20	ug/L
Chloroethane	< 0.50	0.50	ug/L
Trichlorofluoromethane	< 0.50	0.50	ug/L
1,1-Dichloroethene	< 0.50	0.50	ug/L
Methylene Chloride	< 5.0	5.0	ug/L
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L
1,1-Dichloroethane	< 0.50	0.50	ug/L
2,2-Dichloropropane	< 0.50	0.50	ug/L
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L
Chloroform	< 0.50	0.50	ug/L
Bromochloromethane	< 0.50	0.50	ug/L
1,1,1-Trichloroethane	< 0.50	0.50	ug/L
1,1-Dichloropropene	< 0.50	0.50	ug/L
1,2-Dichloroethane	< 0.50	0.50	ug/L
Carbon Tetrachloride	< 0.50	0.50	ug/L
Benzene	< 0.50	0.50	ug/L
Trichloroethene	< 0.50	0.50	ug/L
1,2-Dichloropropane	< 0.50	0.50	ug/L
Bromodichloromethane	< 0.50	0.50	ug/L
Dibromomethane	< 0.50	0.50	ug/L
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L
Toluene	< 0.50	0.50	ug/L
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L
1,1,2-Trichloroethane	< 0.50	0.50	ug/L
1,3-Dichloropropane	< 0.50	0.50	ug/L
Tetrachloroethene	< 0.50	0.50	ug/L
Dibromochloromethane	< 0.50	0.50	ug/L
1,2-Dibromoethane	< 0.50	0.50	ug/L
Chlorobenzene	< 0.50	0.50	ug/L
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L
Ethylbenzene	< 0.50	0.50	ug/L
P,M-Xylene	< 1.0	1.0	ug/L
O-Xylene	< 0.50	0.50	ug/L

Parameter	Measured Value	MRL [1]	Units
Styrene	< 0.50	0.50	ug/L
Isopropyl benzene	< 0.50	0.50	ug/L
Bromoform	< 0.50	0.50	ug/L
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L
1,2,3-Trichloropropane	< 0.50	0.50	ug/L
n-Propylbenzene	< 0.50	0.50	ug/L
Bromobenzene	< 0.50	0.50	ug/L
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L
2+4-Chlorotoluene	< 1.0	1.0	ug/L
tert-Butylbenzene	< 0.50	0.50	ug/L
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L
sec-Butylbenzene	< 0.50	0.50	ug/L
p-Isopropyltoluene	< 0.50	0.50	ug/L
1,3-Dichlorobenzene	< 0.50	0.50	ug/L
1,4-Dichlorobenzene	< 0.50	0.50	ug/L
n-Butylbenzene	< 0.50	0.50	ug/L
1,2-Dichlorobenzene	< 0.50	0.50	ug/L
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L
Hexachlorobutadiene	< 0.50	0.50	ug/L
Naphthalene	< 0.50	0.50	ug/L
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L
1,2-Dichloroethane-d4 (Surr)	97.4		% Recovery
Toluene-d8 (Surr)	98.1		% Recovery
4-Bromofluorobenzene (Surr)	84.5		% Recovery

1) MRL = Method reporting limit
2) MRL raised due to interference

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 55902
Date : 5/17/2007

Sample : **B11-GW**
Project Name : **Crystal Creamery**
Project Number : **7528.03** Lab Number : 55902-08 Date Analyzed : 4/14/2007
Matrix : Water Sample Date : 4/10/2007 Analysis Method: EPA 8260B

Parameter	Measured Value	MRL [1]	Units
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L
TPH as Gasoline	< 50	50	ug/L
Dichlorodifluoromethane	< 0.50	0.50	ug/L
Chloromethane	< 0.50	0.50	ug/L
Vinyl Chloride	< 0.50	0.50	ug/L
Bromomethane	< 20	20	ug/L
Chloroethane	< 0.50	0.50	ug/L
Trichlorofluoromethane	< 0.50	0.50	ug/L
1,1-Dichloroethene	< 0.50	0.50	ug/L
Methylene Chloride	< 5.0	5.0	ug/L
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L
1,1-Dichloroethane	< 0.50	0.50	ug/L
2,2-Dichloropropane	< 0.50	0.50	ug/L
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L
Chloroform	< 0.50	0.50	ug/L
Bromochloromethane	< 0.50	0.50	ug/L
1,1,1-Trichloroethane	< 0.50	0.50	ug/L
1,1-Dichloropropene	< 0.50	0.50	ug/L
1,2-Dichloroethane	< 0.50	0.50	ug/L
Carbon Tetrachloride	< 0.50	0.50	ug/L
Benzene	< 0.50	0.50	ug/L
Trichloroethene	< 0.50	0.50	ug/L
1,2-Dichloropropane	< 0.50	0.50	ug/L
Bromodichloromethane	< 0.50	0.50	ug/L
Dibromomethane	< 0.50	0.50	ug/L
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L
Toluene	< 0.50	0.50	ug/L
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L
1,1,2-Trichloroethane	< 0.50	0.50	ug/L
1,3-Dichloropropane	< 0.50	0.50	ug/L
Tetrachloroethene	< 0.50	0.50	ug/L
Dibromochloromethane	< 0.50	0.50	ug/L
1,2-Dibromoethane	< 0.50	0.50	ug/L
Chlorobenzene	< 0.50	0.50	ug/L
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L
Ethylbenzene	< 0.50	0.50	ug/L
P,M-Xylene	< 1.0	1.0	ug/L
O-Xylene	< 0.50	0.50	ug/L

Parameter	Measured Value	MRL [1]	Units
Styrene	< 0.50	0.50	ug/L
Isopropyl benzene	< 0.50	0.50	ug/L
Bromoform	< 0.50	0.50	ug/L
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L
1,2,3-Trichloropropane	< 0.50	0.50	ug/L
n-Propylbenzene	< 0.50	0.50	ug/L
Bromobenzene	< 0.50	0.50	ug/L
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L
2+4-Chlorotoluene	< 1.0	1.0	ug/L
tert-Butylbenzene	< 0.50	0.50	ug/L
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L
sec-Butylbenzene	< 0.50	0.50	ug/L
p-Isopropyltoluene	< 0.50	0.50	ug/L
1,3-Dichlorobenzene	< 0.50	0.50	ug/L
1,4-Dichlorobenzene	< 0.50	0.50	ug/L
n-Butylbenzene	< 0.50	0.50	ug/L
1,2-Dichlorobenzene	< 0.50	0.50	ug/L
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L
Hexachlorobutadiene	< 0.50	0.50	ug/L
Naphthalene	< 0.50	0.50	ug/L
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L
1,2-Dichloroethane-d4 (Surr)	95.9		% Recovery
Toluene-d8 (Surr)	97.4		% Recovery
4-Bromofluorobenzene (Surr)	87.2		% Recovery

1) MRL = Method reporting limit
2) MRL raised due to interference

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 55902
Date : 5/17/2007

Sample : **B12-GW**
Project Name : **Crystal Creamery**
Project Number : **7528.03** Lab Number : 55902-09 Date Analyzed : 4/14/2007
Matrix : Water Sample Date : 4/10/2007 Analysis Method: EPA 8260B

Parameter	Measured Value	MRL [1]	Units
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L
TPH as Gasoline	< 50	50	ug/L
Dichlorodifluoromethane	< 0.50	0.50	ug/L
Chloromethane	< 0.50	0.50	ug/L
Vinyl Chloride	< 0.50	0.50	ug/L
Bromomethane	< 20	20	ug/L
Chloroethane	< 0.50	0.50	ug/L
Trichlorofluoromethane	< 0.50	0.50	ug/L
1,1-Dichloroethene	< 0.50	0.50	ug/L
Methylene Chloride	< 5.0	5.0	ug/L
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L
1,1-Dichloroethane	< 0.50	0.50	ug/L
2,2-Dichloropropane	< 0.50	0.50	ug/L
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L
Chloroform	< 0.50	0.50	ug/L
Bromochloromethane	< 0.50	0.50	ug/L
1,1,1-Trichloroethane	< 0.50	0.50	ug/L
1,1-Dichloropropene	< 0.50	0.50	ug/L
1,2-Dichloroethane	< 0.50	0.50	ug/L
Carbon Tetrachloride	< 0.50	0.50	ug/L
Benzene	< 0.50	0.50	ug/L
Trichloroethene	< 0.50	0.50	ug/L
1,2-Dichloropropane	< 0.50	0.50	ug/L
Bromodichloromethane	< 0.50	0.50	ug/L
Dibromomethane	< 0.50	0.50	ug/L
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L
Toluene	< 0.50	0.50	ug/L
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L
1,1,2-Trichloroethane	< 0.50	0.50	ug/L
1,3-Dichloropropane	< 0.50	0.50	ug/L
Tetrachloroethene	< 0.50	0.50	ug/L
Dibromochloromethane	< 0.50	0.50	ug/L
1,2-Dibromoethane	< 0.50	0.50	ug/L
Chlorobenzene	< 0.50	0.50	ug/L
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L
Ethylbenzene	< 0.50	0.50	ug/L
P,M-Xylene	< 1.0	1.0	ug/L
O-Xylene	< 0.50	0.50	ug/L

Parameter	Measured Value	MRL [1]	Units
Styrene	< 0.50	0.50	ug/L
Isopropyl benzene	< 0.50	0.50	ug/L
Bromoform	< 0.50	0.50	ug/L
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L
1,2,3-Trichloropropane	< 0.50	0.50	ug/L
n-Propylbenzene	< 0.50	0.50	ug/L
Bromobenzene	< 0.50	0.50	ug/L
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L
2+4-Chlorotoluene	< 1.0	1.0	ug/L
tert-Butylbenzene	< 0.50	0.50	ug/L
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L
sec-Butylbenzene	< 0.50	0.50	ug/L
p-Isopropyltoluene	< 0.50	0.50	ug/L
1,3-Dichlorobenzene	< 0.50	0.50	ug/L
1,4-Dichlorobenzene	< 0.50	0.50	ug/L
n-Butylbenzene	< 0.50	0.50	ug/L
1,2-Dichlorobenzene	< 0.50	0.50	ug/L
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L
Hexachlorobutadiene	< 0.50	0.50	ug/L
Naphthalene	< 0.50	0.50	ug/L
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L
1,2-Dichloroethane-d4 (Surr)	97.6		% Recovery
Toluene-d8 (Surr)	98.6		% Recovery
4-Bromofluorobenzene (Surr)	85.5		% Recovery

1) MRL = Method reporting limit
2) MRL raised due to interference

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 55902
Date : 5/17/2007

Sample : **B13-GW**
Project Name : **Crystal Creamery**
Project Number : **7528.03** Lab Number : 55902-10 Date Analyzed : 4/14/2007
Matrix : Water Sample Date :4/11/2007 Analysis Method: EPA 8260B

Parameter	Measured Value	MRL [1]	Units
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L
TPH as Gasoline	< 50	50	ug/L
Dichlorodifluoromethane	< 0.50	0.50	ug/L
Chloromethane	< 0.50	0.50	ug/L
Vinyl Chloride	< 0.50	0.50	ug/L
Bromomethane	< 20	20	ug/L
Chloroethane	< 0.50	0.50	ug/L
Trichlorofluoromethane	< 0.50	0.50	ug/L
1,1-Dichloroethene	< 0.50	0.50	ug/L
Methylene Chloride	< 5.0	5.0	ug/L
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L
1,1-Dichloroethane	< 0.50	0.50	ug/L
2,2-Dichloropropane	< 0.50	0.50	ug/L
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L
Chloroform	< 0.50	0.50	ug/L
Bromochloromethane	< 0.50	0.50	ug/L
1,1,1-Trichloroethane	< 0.50	0.50	ug/L
1,1-Dichloropropene	< 0.50	0.50	ug/L
1,2-Dichloroethane	< 0.50	0.50	ug/L
Carbon Tetrachloride	< 0.50	0.50	ug/L
Benzene	< 0.50	0.50	ug/L
Trichloroethene	< 0.50	0.50	ug/L
1,2-Dichloropropane	< 0.50	0.50	ug/L
Bromodichloromethane	< 0.50	0.50	ug/L
Dibromomethane	< 0.50	0.50	ug/L
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L
Toluene	< 0.50	0.50	ug/L
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L
1,1,2-Trichloroethane	< 0.50	0.50	ug/L
1,3-Dichloropropane	< 0.50	0.50	ug/L
Tetrachloroethene	< 0.50	0.50	ug/L
Dibromochloromethane	< 0.50	0.50	ug/L
1,2-Dibromoethane	< 0.50	0.50	ug/L
Chlorobenzene	< 0.50	0.50	ug/L
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L
Ethylbenzene	< 0.50	0.50	ug/L
P,M-Xylene	< 1.0	1.0	ug/L
O-Xylene	< 0.50	0.50	ug/L

Parameter	Measured Value	MRL [1]	Units
Styrene	< 0.50	0.50	ug/L
Isopropyl benzene	< 0.50	0.50	ug/L
Bromoform	< 0.50	0.50	ug/L
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L
1,2,3-Trichloropropane	< 0.50	0.50	ug/L
n-Propylbenzene	< 0.50	0.50	ug/L
Bromobenzene	< 0.50	0.50	ug/L
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L
2+4-Chlorotoluene	< 1.0	1.0	ug/L
tert-Butylbenzene	< 0.50	0.50	ug/L
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L
sec-Butylbenzene	< 0.50	0.50	ug/L
p-Isopropyltoluene	< 0.50	0.50	ug/L
1,3-Dichlorobenzene	< 0.50	0.50	ug/L
1,4-Dichlorobenzene	< 0.50	0.50	ug/L
n-Butylbenzene	< 0.50	0.50	ug/L
1,2-Dichlorobenzene	< 0.50	0.50	ug/L
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L
Hexachlorobutadiene	< 0.50	0.50	ug/L
Naphthalene	< 0.50	0.50	ug/L
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L
1,2-Dichloroethane-d4 (Surr)	98.4		% Recovery
Toluene-d8 (Surr)	98.8		% Recovery
4-Bromofluorobenzene (Surr)	86.2		% Recovery

1) MRL = Method reporting limit
2) MRL raised due to interference

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 55902
Date : 5/17/2007

Sample : **B16-GW**
Project Name : **Crystal Creamery**
Project Number : **7528.03** Lab Number : 55902-11 Date Analyzed : 4/14/2007
Matrix : Water Sample Date : 4/11/2007 Analysis Method: EPA 8260B

Parameter	Measured Value	MRL [1]	Units
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L
TPH as Gasoline	< 50	50	ug/L
Dichlorodifluoromethane	< 0.50	0.50	ug/L
Chloromethane	< 0.50	0.50	ug/L
Vinyl Chloride	< 0.50	0.50	ug/L
Bromomethane	< 20	20	ug/L
Chloroethane	< 0.50	0.50	ug/L
Trichlorofluoromethane	< 0.50	0.50	ug/L
1,1-Dichloroethene	< 0.50	0.50	ug/L
Methylene Chloride	< 5.0	5.0	ug/L
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L
1,1-Dichloroethane	< 0.50	0.50	ug/L
2,2-Dichloropropane	< 0.50	0.50	ug/L
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L
Chloroform	**0.71**	0.50	ug/L
Bromochloromethane	< 0.50	0.50	ug/L
1,1,1-Trichloroethane	< 0.50	0.50	ug/L
1,1-Dichloropropene	< 0.50	0.50	ug/L
1,2-Dichloroethane	< 0.50	0.50	ug/L
Carbon Tetrachloride	< 0.50	0.50	ug/L
Benzene	< 0.50	0.50	ug/L
Trichloroethene	< 0.50	0.50	ug/L
1,2-Dichloropropane	< 0.50	0.50	ug/L
Bromodichloromethane	< 0.50	0.50	ug/L
Dibromomethane	< 0.50	0.50	ug/L
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L
Toluene	< 0.50	0.50	ug/L
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L
1,1,2-Trichloroethane	< 0.50	0.50	ug/L
1,3-Dichloropropane	< 0.50	0.50	ug/L
Tetrachloroethene	< 0.50	0.50	ug/L
Dibromochloromethane	< 0.50	0.50	ug/L
1,2-Dibromoethane	< 0.50	0.50	ug/L
Chlorobenzene	< 0.50	0.50	ug/L
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L
Ethylbenzene	< 0.50	0.50	ug/L
P,M-Xylene	< 1.0	1.0	ug/L
O-Xylene	< 0.50	0.50	ug/L

Parameter	Measured Value	MRL [1]	Units
Styrene	< 0.50	0.50	ug/L
Isopropyl benzene	< 0.50	0.50	ug/L
Bromoform	< 0.50	0.50	ug/L
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L
1,2,3-Trichloropropane	< 0.50	0.50	ug/L
n-Propylbenzene	< 0.50	0.50	ug/L
Bromobenzene	< 0.50	0.50	ug/L
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L
2+4-Chlorotoluene	< 1.0	1.0	ug/L
tert-Butylbenzene	< 0.50	0.50	ug/L
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L
sec-Butylbenzene	< 0.50	0.50	ug/L
p-Isopropyltoluene	< 0.50	0.50	ug/L
1,3-Dichlorobenzene	< 0.50	0.50	ug/L
1,4-Dichlorobenzene	< 0.50	0.50	ug/L
n-Butylbenzene	< 0.50	0.50	ug/L
1,2-Dichlorobenzene	< 0.50	0.50	ug/L
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L
Hexachlorobutadiene	< 0.50	0.50	ug/L
Naphthalene	< 0.50	0.50	ug/L
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L
1,2-Dichloroethane-d4 (Surr)	97.9		% Recovery
Toluene-d8 (Surr)	99.0		% Recovery
4-Bromofluorobenzene (Surr)	87.1		% Recovery

1) MRL = Method reporting limit
2) MRL raised due to interference

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 55902
Date : 5/17/2007

Sample : **B17-GW**
Project Name : **Crystal Creamery**
Project Number : **7528.03** Lab Number : 55902-12 Date Analyzed : 4/14/2007
Matrix : Water Sample Date : 4/11/2007 Analysis Method: EPA 8260B

Parameter	Measured Value	MRL [1]	Units
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L
TPH as Gasoline	< 50	50	ug/L
Dichlorodifluoromethane	< 0.50	0.50	ug/L
Chloromethane	< 0.50	0.50	ug/L
Vinyl Chloride	< 0.50	0.50	ug/L
Bromomethane	< 20	20	ug/L
Chloroethane	< 0.50	0.50	ug/L
Trichlorofluoromethane	< 0.50	0.50	ug/L
1,1-Dichloroethene	< 0.50	0.50	ug/L
Methylene Chloride	< 5.0	5.0	ug/L
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L
1,1-Dichloroethane	< 0.50	0.50	ug/L
2,2-Dichloropropane	< 0.50	0.50	ug/L
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L
Chloroform	< 0.50	0.50	ug/L
Bromochloromethane	< 0.50	0.50	ug/L
1,1,1-Trichloroethane	< 0.50	0.50	ug/L
1,1-Dichloropropene	< 0.50	0.50	ug/L
1,2-Dichloroethane	< 0.50	0.50	ug/L
Carbon Tetrachloride	< 0.50	0.50	ug/L
Benzene	< 0.50	0.50	ug/L
Trichloroethene	< 0.50	0.50	ug/L
1,2-Dichloropropane	< 0.50	0.50	ug/L
Bromodichloromethane	< 0.50	0.50	ug/L
Dibromomethane	< 0.50	0.50	ug/L
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L
Toluene	< 0.50	0.50	ug/L
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L
1,1,2-Trichloroethane	< 0.50	0.50	ug/L
1,3-Dichloropropane	< 0.50	0.50	ug/L
Tetrachloroethene	< 0.50	0.50	ug/L
Dibromochloromethane	< 0.50	0.50	ug/L
1,2-Dibromoethane	< 0.50	0.50	ug/L
Chlorobenzene	< 0.50	0.50	ug/L
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L
Ethylbenzene	< 0.50	0.50	ug/L
P,M-Xylene	< 1.0	1.0	ug/L
O-Xylene	< 0.50	0.50	ug/L

Parameter	Measured Value	MRL [1]	Units
Styrene	< 0.50	0.50	ug/L
Isopropyl benzene	< 0.50	0.50	ug/L
Bromoform	< 0.50	0.50	ug/L
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L
1,2,3-Trichloropropane	< 0.50	0.50	ug/L
n-Propylbenzene	< 0.50	0.50	ug/L
Bromobenzene	< 0.50	0.50	ug/L
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L
2+4-Chlorotoluene	< 1.0	1.0	ug/L
tert-Butylbenzene	< 0.50	0.50	ug/L
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L
sec-Butylbenzene	< 0.50	0.50	ug/L
p-Isopropyltoluene	< 0.50	0.50	ug/L
1,3-Dichlorobenzene	< 0.50	0.50	ug/L
1,4-Dichlorobenzene	< 0.50	0.50	ug/L
n-Butylbenzene	< 0.50	0.50	ug/L
1,2-Dichlorobenzene	< 0.50	0.50	ug/L
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L
Hexachlorobutadiene	< 0.50	0.50	ug/L
Naphthalene	< 0.50	0.50	ug/L
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L
1,2-Dichloroethane-d4 (Surr)	98.9		% Recovery
Toluene-d8 (Surr)	97.3		% Recovery
4-Bromofluorobenzene (Surr)	85.2		% Recovery

1) MRL = Method reporting limit
2) MRL raised due to interference

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 55902
Date : 5/17/2007

Sample : **B18-GW**
Project Name : **Crystal Creamery**
Project Number : **7528.03** Lab Number : 55902-13 Date Analyzed : 4/14/2007
Matrix : Water Sample Date : 4/11/2007 Analysis Method: EPA 8260B

Parameter	Measured Value	MRL [1]	Units
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L
TPH as Gasoline	< 50	50	ug/L
Dichlorodifluoromethane	< 0.50	0.50	ug/L
Chloromethane	< 0.50	0.50	ug/L
Vinyl Chloride	< 0.50	0.50	ug/L
Bromomethane	< 20	20	ug/L
Chloroethane	< 0.50	0.50	ug/L
Trichlorofluoromethane	< 0.50	0.50	ug/L
1,1-Dichloroethene	< 0.50	0.50	ug/L
Methylene Chloride	< 5.0	5.0	ug/L
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L
1,1-Dichloroethane	< 0.50	0.50	ug/L
2,2-Dichloropropane	< 0.50	0.50	ug/L
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L
Chloroform	< 0.50	0.50	ug/L
Bromochloromethane	< 0.50	0.50	ug/L
1,1,1-Trichloroethane	< 0.50	0.50	ug/L
1,1-Dichloropropene	< 0.50	0.50	ug/L
1,2-Dichloroethane	< 0.50	0.50	ug/L
Carbon Tetrachloride	< 0.50	0.50	ug/L
Benzene	< 0.50	0.50	ug/L
Trichloroethene	< 0.50	0.50	ug/L
1,2-Dichloropropane	< 0.50	0.50	ug/L
Bromodichloromethane	< 0.50	0.50	ug/L
Dibromomethane	< 0.50	0.50	ug/L
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L
Toluene	< 0.50	0.50	ug/L
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L
1,1,2-Trichloroethane	< 0.50	0.50	ug/L
1,3-Dichloropropane	< 0.50	0.50	ug/L
Tetrachloroethene	< 0.50	0.50	ug/L
Dibromochloromethane	< 0.50	0.50	ug/L
1,2-Dibromoethane	< 0.50	0.50	ug/L
Chlorobenzene	< 0.50	0.50	ug/L
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L
Ethylbenzene	< 0.50	0.50	ug/L
P,M-Xylene	< 1.0	1.0	ug/L
O-Xylene	< 0.50	0.50	ug/L

Parameter	Measured Value	MRL [1]	Units
Styrene	< 0.50	0.50	ug/L
Isopropyl benzene	< 0.50	0.50	ug/L
Bromoform	< 0.50	0.50	ug/L
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L
1,2,3-Trichloropropane	< 0.50	0.50	ug/L
n-Propylbenzene	< 0.50	0.50	ug/L
Bromobenzene	< 0.50	0.50	ug/L
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L
2+4-Chlorotoluene	< 1.0	1.0	ug/L
tert-Butylbenzene	< 0.50	0.50	ug/L
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L
sec-Butylbenzene	< 0.50	0.50	ug/L
p-Isopropyltoluene	< 0.50	0.50	ug/L
1,3-Dichlorobenzene	< 0.50	0.50	ug/L
1,4-Dichlorobenzene	< 0.50	0.50	ug/L
n-Butylbenzene	< 0.50	0.50	ug/L
1,2-Dichlorobenzene	< 0.50	0.50	ug/L
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L
Hexachlorobutadiene	< 0.50	0.50	ug/L
Naphthalene	< 0.50	0.50	ug/L
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L
1,2-Dichloroethane-d4 (Surr)	101		% Recovery
Toluene-d8 (Surr)	102		% Recovery
4-Bromofluorobenzene (Surr)	104		% Recovery

1) MRL = Method reporting limit
2) MRL raised due to interference

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 55902
Date : 5/17/2007

Sample : **B19-GW**
Project Name : **Crystal Creamery**
Project Number : **7528.03** Lab Number : 55902-14 Date Analyzed : 4/14/2007
Matrix : Water Sample Date : 4/11/2007 Analysis Method: EPA 8260B

Parameter	Measured Value	MRL [1]	Units
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L
TPH as Gasoline	< 50	50	ug/L
Dichlorodifluoromethane	< 0.50	0.50	ug/L
Chloromethane	< 0.50	0.50	ug/L
Vinyl Chloride	< 0.50	0.50	ug/L
Bromomethane	< 20	20	ug/L
Chloroethane	< 0.50	0.50	ug/L
Trichlorofluoromethane	< 0.50	0.50	ug/L
1,1-Dichloroethene	< 0.50	0.50	ug/L
Methylene Chloride	< 5.0	5.0	ug/L
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L
1,1-Dichloroethane	< 0.50	0.50	ug/L
2,2-Dichloropropane	< 0.50	0.50	ug/L
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L
Chloroform	< 0.50	0.50	ug/L
Bromochloromethane	< 0.50	0.50	ug/L
1,1,1-Trichloroethane	< 0.50	0.50	ug/L
1,1-Dichloropropene	< 0.50	0.50	ug/L
1,2-Dichloroethane	< 0.50	0.50	ug/L
Carbon Tetrachloride	< 0.50	0.50	ug/L
Benzene	< 0.50	0.50	ug/L
Trichloroethene	< 0.50	0.50	ug/L
1,2-Dichloropropane	< 0.50	0.50	ug/L
Bromodichloromethane	< 0.50	0.50	ug/L
Dibromomethane	< 0.50	0.50	ug/L
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L
Toluene	< 0.50	0.50	ug/L
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L
1,1,2-Trichloroethane	< 0.50	0.50	ug/L
1,3-Dichloropropane	< 0.50	0.50	ug/L
Tetrachloroethene	< 0.50	0.50	ug/L
Dibromochloromethane	< 0.50	0.50	ug/L
1,2-Dibromoethane	< 0.50	0.50	ug/L
Chlorobenzene	< 0.50	0.50	ug/L
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L
Ethylbenzene	< 0.50	0.50	ug/L
P,M-Xylene	< 1.0	1.0	ug/L
O-Xylene	< 0.50	0.50	ug/L

Parameter	Measured Value	MRL [1]	Units
Styrene	< 0.50	0.50	ug/L
Isopropyl benzene	< 0.50	0.50	ug/L
Bromoform	< 0.50	0.50	ug/L
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L
1,2,3-Trichloropropane	< 0.50	0.50	ug/L
n-Propylbenzene	< 0.50	0.50	ug/L
Bromobenzene	< 0.50	0.50	ug/L
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L
2+4-Chlorotoluene	< 1.0	1.0	ug/L
tert-Butylbenzene	< 0.50	0.50	ug/L
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L
sec-Butylbenzene	< 0.50	0.50	ug/L
p-Isopropyltoluene	< 0.50	0.50	ug/L
1,3-Dichlorobenzene	< 0.50	0.50	ug/L
1,4-Dichlorobenzene	< 0.50	0.50	ug/L
n-Butylbenzene	< 0.50	0.50	ug/L
1,2-Dichlorobenzene	< 0.50	0.50	ug/L
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L
Hexachlorobutadiene	< 0.50	0.50	ug/L
Naphthalene	< 0.50	0.50	ug/L
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L
1,2-Dichloroethane-d4 (Surr)	106		% Recovery
Toluene-d8 (Surr)	102		% Recovery
4-Bromofluorobenzene (Surr)	110		% Recovery

1) MRL = Method reporting limit
2) MRL raised due to interference

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 55902
Date : 5/17/2007

Sample : **B2-12**
Project Name : **Crystal Creamery**
Project Number : **7528.03** Lab Number : 55902-15 Date Analyzed : 4/13/2007
Matrix : Soil Sample Date : 4/10/2007 Analysis Method: EPA 8260B

Parameter	Measured Value	MRL [1]	Units
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg
TPH as Gasoline	< 1.0	1.0	mg/Kg
Dichlorodifluoromethane	< 0.0050	0.0050	mg/Kg
Chloromethane	< 0.0050	0.0050	mg/Kg
Vinyl Chloride	< 0.0050	0.0050	mg/Kg
Bromomethane	< 0.020	0.020	mg/Kg
Chloroethane	< 0.0050	0.0050	mg/Kg
Trichlorofluoromethane	< 0.0050	0.0050	mg/Kg
1,1-Dichloroethene	< 0.0050	0.0050	mg/Kg
Methylene Chloride	< 0.0050	0.0050	mg/Kg
trans-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg
1,1-Dichloroethane	< 0.0050	0.0050	mg/Kg
2,2-Dichloropropane	< 0.0050	0.0050	mg/Kg
cis-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg
Chloroform	< 0.0050	0.0050	mg/Kg
Bromochloromethane	< 0.0050	0.0050	mg/Kg
1,1,1-Trichloroethane	< 0.0050	0.0050	mg/Kg
1,1-Dichloropropene	< 0.0050	0.0050	mg/Kg
1,2-Dichloroethane	< 0.0050	0.0050	mg/Kg
Carbon Tetrachloride	< 0.0050	0.0050	mg/Kg
Benzene	< 0.0050	0.0050	mg/Kg
Trichloroethene	< 0.0050	0.0050	mg/Kg
1,2-Dichloropropane	< 0.0050	0.0050	mg/Kg
Bromodichloromethane	< 0.0050	0.0050	mg/Kg
Dibromomethane	< 0.0050	0.0050	mg/Kg
cis-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg
Toluene	< 0.0050	0.0050	mg/Kg
trans-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg
1,1,2-Trichloroethane	< 0.0050	0.0050	mg/Kg
1,3-Dichloropropane	< 0.0050	0.0050	mg/Kg
Tetrachloroethene	< 0.0050	0.0050	mg/Kg
Dibromochloromethane	< 0.0050	0.0050	mg/Kg
1,2-Dibromoethane	< 0.0050	0.0050	mg/Kg
Chlorobenzene	< 0.0050	0.0050	mg/Kg
1,1,1,2-Tetrachloroethane	< 0.0050	0.0050	mg/Kg
Ethylbenzene	< 0.0050	0.0050	mg/Kg
P,M-Xylene	< 0.0050	0.0050	mg/Kg

Parameter	Measured Value	MRL [1]	Units
O-Xylene	< 0.0050	0.0050	mg/Kg
Styrene	< 0.0050	0.0050	mg/Kg
Isopropyl benzene	< 0.0050	0.0050	mg/Kg
Bromoform	< 0.0050	0.0050	mg/Kg
1,1,2,2-Tetrachloroethane	< 0.0050	0.0050	mg/Kg
1,2,3-Trichloropropane	< 0.0050	0.0050	mg/Kg
n-Propylbenzene	< 0.0050	0.0050	mg/Kg
Bromobenzene	< 0.0050	0.0050	mg/Kg
1,3,5-Trimethylbenzene	< 0.0050	0.0050	mg/Kg
2+4-Chlorotoluene	< 0.0050	0.0050	mg/Kg
tert-Butylbenzene	< 0.0050	0.0050	mg/Kg
1,2,4-Trimethylbenzene	< 0.0050	0.0050	mg/Kg
sec-Butylbenzene	< 0.0050	0.0050	mg/Kg
p-Isopropyltoluene	< 0.0050	0.0050	mg/Kg
1,3-Dichlorobenzene	< 0.0050	0.0050	mg/Kg
1,4-Dichlorobenzene	< 0.0050	0.0050	mg/Kg
n-Butylbenzene	< 0.0050	0.0050	mg/Kg
1,2-Dichlorobenzene	< 0.0050	0.0050	mg/Kg
1,2-Dibromo-3-chloropropane	< 0.0050	0.0050	mg/Kg
1,2,4-Trichlorobenzene	< 0.0050	0.0050	mg/Kg
Hexachlorobutadiene	< 0.0050	0.0050	mg/Kg
Naphthalene	< 0.0050	0.0050	mg/Kg
1,2,3-Trichlorobenzene	< 0.0050	0.0050	mg/Kg
1,2-Dichloroethane-d4 (Surr)	103		% Recovery
Toluene-d8 (Surr)	100		% Recovery
4-Bromofluorobenzene (Surr)	99.6		% Recovery

1) MRL = Method reporting limit
2) MRL raised due to interference

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 55902
Date : 5/17/2007

Sample : **B3-12**
Project Name : **Crystal Creamery**
Project Number : **7528.03** Lab Number : 55902-16 Date Analyzed : 4/13/2007
Matrix : Soil Sample Date : 4/10/2007 Analysis Method: EPA 8260B

Parameter	Measured Value	MRL [1]	Units
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg
TPH as Gasoline	< 1.0	1.0	mg/Kg
Dichlorodifluoromethane	< 0.0050	0.0050	mg/Kg
Chloromethane	< 0.0050	0.0050	mg/Kg
Vinyl Chloride	< 0.0050	0.0050	mg/Kg
Bromomethane	< 0.020	0.020	mg/Kg
Chloroethane	< 0.0050	0.0050	mg/Kg
Trichlorofluoromethane	< 0.0050	0.0050	mg/Kg
1,1-Dichloroethene	< 0.0050	0.0050	mg/Kg
Methylene Chloride	< 0.0050	0.0050	mg/Kg
trans-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg
1,1-Dichloroethane	< 0.0050	0.0050	mg/Kg
2,2-Dichloropropane	< 0.0050	0.0050	mg/Kg
cis-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg
Chloroform	< 0.0050	0.0050	mg/Kg
Bromochloromethane	< 0.0050	0.0050	mg/Kg
1,1,1-Trichloroethane	< 0.0050	0.0050	mg/Kg
1,1-Dichloropropene	< 0.0050	0.0050	mg/Kg
1,2-Dichloroethane	< 0.0050	0.0050	mg/Kg
Carbon Tetrachloride	< 0.0050	0.0050	mg/Kg
Benzene	< 0.0050	0.0050	mg/Kg
Trichloroethene	< 0.0050	0.0050	mg/Kg
1,2-Dichloropropane	< 0.0050	0.0050	mg/Kg
Bromodichloromethane	< 0.0050	0.0050	mg/Kg
Dibromomethane	< 0.0050	0.0050	mg/Kg
cis-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg
Toluene	< 0.0050	0.0050	mg/Kg
trans-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg
1,1,2-Trichloroethane	< 0.0050	0.0050	mg/Kg
1,3-Dichloropropane	< 0.0050	0.0050	mg/Kg
Tetrachloroethene	< 0.0050	0.0050	mg/Kg
Dibromochloromethane	< 0.0050	0.0050	mg/Kg
1,2-Dibromoethane	< 0.0050	0.0050	mg/Kg
Chlorobenzene	< 0.0050	0.0050	mg/Kg
1,1,1,2-Tetrachloroethane	< 0.0050	0.0050	mg/Kg
Ethylbenzene	< 0.0050	0.0050	mg/Kg
P,M-Xylene	< 0.0050	0.0050	mg/Kg

Parameter	Measured Value	MRL [1]	Units
O-Xylene	< 0.0050	0.0050	mg/Kg
Styrene	< 0.0050	0.0050	mg/Kg
Isopropyl benzene	< 0.0050	0.0050	mg/Kg
Bromoform	< 0.0050	0.0050	mg/Kg
1,1,2,2-Tetrachloroethane	< 0.0050	0.0050	mg/Kg
1,2,3-Trichloropropane	< 0.0050	0.0050	mg/Kg
n-Propylbenzene	< 0.0050	0.0050	mg/Kg
Bromobenzene	< 0.0050	0.0050	mg/Kg
1,3,5-Trimethylbenzene	< 0.0050	0.0050	mg/Kg
2+4-Chlorotoluene	< 0.0050	0.0050	mg/Kg
tert-Butylbenzene	< 0.0050	0.0050	mg/Kg
1,2,4-Trimethylbenzene	< 0.0050	0.0050	mg/Kg
sec-Butylbenzene	< 0.0050	0.0050	mg/Kg
p-Isopropyltoluene	< 0.0050	0.0050	mg/Kg
1,3-Dichlorobenzene	< 0.0050	0.0050	mg/Kg
1,4-Dichlorobenzene	< 0.0050	0.0050	mg/Kg
n-Butylbenzene	< 0.0050	0.0050	mg/Kg
1,2-Dichlorobenzene	< 0.0050	0.0050	mg/Kg
1,2-Dibromo-3-chloropropane	< 0.0050	0.0050	mg/Kg
1,2,4-Trichlorobenzene	< 0.0050	0.0050	mg/Kg
Hexachlorobutadiene	< 0.0050	0.0050	mg/Kg
Naphthalene	< 0.0050	0.0050	mg/Kg
1,2,3-Trichlorobenzene	< 0.0050	0.0050	mg/Kg
1,2-Dichloroethane-d4 (Surr)	107		% Recovery
Toluene-d8 (Surr)	101		% Recovery
4-Bromofluorobenzene (Surr)	100		% Recovery

1) MRL = Method reporting limit
2) MRL raised due to interference

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 55902
Date : 5/17/2007

Sample : **B4-10**
Project Name : **Crystal Creamery**
Project Number : **7528.03** Lab Number : 55902-17 Date Analyzed : 4/13/2007
Matrix : Soil Sample Date : 4/10/2007 Analysis Method: EPA 8260B

Parameter	Measured Value	MRL [1]	Units
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg
TPH as Gasoline	< 1.0	1.0	mg/Kg
Dichlorodifluoromethane	< 0.0050	0.0050	mg/Kg
Chloromethane	< 0.0050	0.0050	mg/Kg
Vinyl Chloride	< 0.0050	0.0050	mg/Kg
Bromomethane	< 0.020	0.020	mg/Kg
Chloroethane	< 0.0050	0.0050	mg/Kg
Trichlorofluoromethane	< 0.0050	0.0050	mg/Kg
1,1-Dichloroethene	< 0.0050	0.0050	mg/Kg
Methylene Chloride	< 0.0050	0.0050	mg/Kg
trans-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg
1,1-Dichloroethane	< 0.0050	0.0050	mg/Kg
2,2-Dichloropropane	< 0.0050	0.0050	mg/Kg
cis-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg
Chloroform	< 0.0050	0.0050	mg/Kg
Bromochloromethane	< 0.0050	0.0050	mg/Kg
1,1,1-Trichloroethane	< 0.0050	0.0050	mg/Kg
1,1-Dichloropropene	< 0.0050	0.0050	mg/Kg
1,2-Dichloroethane	< 0.0050	0.0050	mg/Kg
Carbon Tetrachloride	< 0.0050	0.0050	mg/Kg
Benzene	< 0.0050	0.0050	mg/Kg
Trichloroethene	< 0.0050	0.0050	mg/Kg
1,2-Dichloropropane	< 0.0050	0.0050	mg/Kg
Bromodichloromethane	< 0.0050	0.0050	mg/Kg
Dibromomethane	< 0.0050	0.0050	mg/Kg
cis-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg
Toluene	< 0.0050	0.0050	mg/Kg
trans-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg
1,1,2-Trichloroethane	< 0.0050	0.0050	mg/Kg
1,3-Dichloropropane	< 0.0050	0.0050	mg/Kg
Tetrachloroethene	< 0.0050	0.0050	mg/Kg
Dibromochloromethane	< 0.0050	0.0050	mg/Kg
1,2-Dibromoethane	< 0.0050	0.0050	mg/Kg
Chlorobenzene	< 0.0050	0.0050	mg/Kg
1,1,1,2-Tetrachloroethane	< 0.0050	0.0050	mg/Kg
Ethylbenzene	< 0.0050	0.0050	mg/Kg
P,M-Xylene	< 0.0050	0.0050	mg/Kg

Parameter	Measured Value	MRL [1]	Units
O-Xylene	< 0.0050	0.0050	mg/Kg
Styrene	< 0.0050	0.0050	mg/Kg
Isopropyl benzene	< 0.0050	0.0050	mg/Kg
Bromoform	< 0.0050	0.0050	mg/Kg
1,1,2,2-Tetrachloroethane	< 0.0050	0.0050	mg/Kg
1,2,3-Trichloropropane	< 0.0050	0.0050	mg/Kg
n-Propylbenzene	< 0.0050	0.0050	mg/Kg
Bromobenzene	< 0.0050	0.0050	mg/Kg
1,3,5-Trimethylbenzene	< 0.0050	0.0050	mg/Kg
2+4-Chlorotoluene	< 0.0050	0.0050	mg/Kg
tert-Butylbenzene	< 0.0050	0.0050	mg/Kg
1,2,4-Trimethylbenzene	< 0.0050	0.0050	mg/Kg
sec-Butylbenzene	< 0.0050	0.0050	mg/Kg
p-Isopropyltoluene	< 0.0050	0.0050	mg/Kg
1,3-Dichlorobenzene	< 0.0050	0.0050	mg/Kg
1,4-Dichlorobenzene	< 0.0050	0.0050	mg/Kg
n-Butylbenzene	< 0.0050	0.0050	mg/Kg
1,2-Dichlorobenzene	< 0.0050	0.0050	mg/Kg
1,2-Dibromo-3-chloropropane	< 0.0050	0.0050	mg/Kg
1,2,4-Trichlorobenzene	< 0.0050	0.0050	mg/Kg
Hexachlorobutadiene	< 0.0050	0.0050	mg/Kg
Naphthalene	< 0.0050	0.0050	mg/Kg
1,2,3-Trichlorobenzene	< 0.0050	0.0050	mg/Kg
1,2-Dichloroethane-d4 (Surr)	105		% Recovery
Toluene-d8 (Surr)	101		% Recovery
4-Bromofluorobenzene (Surr)	100		% Recovery

1) MRL = Method reporting limit
2) MRL raised due to interference

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 55902

Date : 5/17/2007

Sample : **B7-10**

Project Name : **Crystal Creamery**

Project Number : **7528.03** Lab Number : 55902-18 Date Analyzed : 4/13/2007

Matrix : Soil Sample Date : 4/11/2007 Analysis Method: EPA 8260B

Parameter	Measured Value	MRL [1]	Units
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg
TPH as Gasoline	< 1.0	1.0	mg/Kg
Dichlorodifluoromethane	< 0.0050	0.0050	mg/Kg
Chloromethane	< 0.0050	0.0050	mg/Kg
Vinyl Chloride	< 0.0050	0.0050	mg/Kg
Bromomethane	< 0.020	0.020	mg/Kg
Chloroethane	< 0.0050	0.0050	mg/Kg
Trichlorofluoromethane	< 0.0050	0.0050	mg/Kg
1,1-Dichloroethene	< 0.0050	0.0050	mg/Kg
Methylene Chloride	< 0.0050	0.0050	mg/Kg
trans-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg
1,1-Dichloroethane	< 0.0050	0.0050	mg/Kg
2,2-Dichloropropane	< 0.0050	0.0050	mg/Kg
cis-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg
Chloroform	< 0.0050	0.0050	mg/Kg
Bromochloromethane	< 0.0050	0.0050	mg/Kg
1,1,1-Trichloroethane	< 0.0050	0.0050	mg/Kg
1,1-Dichloropropene	< 0.0050	0.0050	mg/Kg
1,2-Dichloroethane	< 0.0050	0.0050	mg/Kg
Carbon Tetrachloride	< 0.0050	0.0050	mg/Kg
Benzene	< 0.0050	0.0050	mg/Kg
Trichloroethene	< 0.0050	0.0050	mg/Kg
1,2-Dichloropropane	< 0.0050	0.0050	mg/Kg
Bromodichloromethane	< 0.0050	0.0050	mg/Kg
Dibromomethane	< 0.0050	0.0050	mg/Kg
cis-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg
Toluene	< 0.0050	0.0050	mg/Kg
trans-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg
1,1,2-Trichloroethane	< 0.0050	0.0050	mg/Kg
1,3-Dichloropropane	< 0.0050	0.0050	mg/Kg
Tetrachloroethene	< 0.0050	0.0050	mg/Kg
Dibromochloromethane	< 0.0050	0.0050	mg/Kg
1,2-Dibromoethane	< 0.0050	0.0050	mg/Kg
Chlorobenzene	< 0.0050	0.0050	mg/Kg
1,1,1,2-Tetrachloroethane	< 0.0050	0.0050	mg/Kg
Ethylbenzene	< 0.0050	0.0050	mg/Kg
P,M-Xylene	< 0.0050	0.0050	mg/Kg

Parameter	Measured Value	MRL [1]	Units
O-Xylene	< 0.0050	0.0050	mg/Kg
Styrene	< 0.0050	0.0050	mg/Kg
Isopropyl benzene	< 0.0050	0.0050	mg/Kg
Bromoform	< 0.0050	0.0050	mg/Kg
1,1,2,2-Tetrachloroethane	< 0.0050	0.0050	mg/Kg
1,2,3-Trichloropropane	< 0.0050	0.0050	mg/Kg
n-Propylbenzene	< 0.0050	0.0050	mg/Kg
Bromobenzene	< 0.0050	0.0050	mg/Kg
1,3,5-Trimethylbenzene	< 0.0050	0.0050	mg/Kg
2+4-Chlorotoluene	< 0.0050	0.0050	mg/Kg
tert-Butylbenzene	< 0.0050	0.0050	mg/Kg
1,2,4-Trimethylbenzene	< 0.0050	0.0050	mg/Kg
sec-Butylbenzene	< 0.0050	0.0050	mg/Kg
p-Isopropyltoluene	< 0.0050	0.0050	mg/Kg
1,3-Dichlorobenzene	< 0.0050	0.0050	mg/Kg
1,4-Dichlorobenzene	< 0.0050	0.0050	mg/Kg
n-Butylbenzene	< 0.0050	0.0050	mg/Kg
1,2-Dichlorobenzene	< 0.0050	0.0050	mg/Kg
1,2-Dibromo-3-chloropropane	< 0.0050	0.0050	mg/Kg
1,2,4-Trichlorobenzene	< 0.0050	0.0050	mg/Kg
Hexachlorobutadiene	< 0.0050	0.0050	mg/Kg
Naphthalene	< 0.0050	0.0050	mg/Kg
1,2,3-Trichlorobenzene	< 0.0050	0.0050	mg/Kg
1,2-Dichloroethane-d4 (Surr)	102		% Recovery
Toluene-d8 (Surr)	100		% Recovery
4-Bromofluorobenzene (Surr)	100		% Recovery

1) MRL = Method reporting limit
2) MRL raised due to interference

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 55902
Date : 5/17/2007

Sample : **B8-3**
Project Name : **Crystal Creamery**
Project Number : **7528.03** Lab Number : 55902-19 Date Analyzed : 4/13/2007
Matrix : Soil Sample Date : 4/11/2007 Analysis Method: EPA 8260B

Parameter	Measured Value	MRL [1]	Units
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg
TPH as Gasoline	< 1.0	1.0	mg/Kg
Dichlorodifluoromethane	< 0.0050	0.0050	mg/Kg
Chloromethane	< 0.0050	0.0050	mg/Kg
Vinyl Chloride	< 0.0050	0.0050	mg/Kg
Bromomethane	< 0.020	0.020	mg/Kg
Chloroethane	< 0.0050	0.0050	mg/Kg
Trichlorofluoromethane	< 0.0050	0.0050	mg/Kg
1,1-Dichloroethene	< 0.0050	0.0050	mg/Kg
Methylene Chloride	< 0.0050	0.0050	mg/Kg
trans-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg
1,1-Dichloroethane	< 0.0050	0.0050	mg/Kg
2,2-Dichloropropane	< 0.0050	0.0050	mg/Kg
cis-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg
Chloroform	< 0.0050	0.0050	mg/Kg
Bromochloromethane	< 0.0050	0.0050	mg/Kg
1,1,1-Trichloroethane	< 0.0050	0.0050	mg/Kg
1,1-Dichloropropene	< 0.0050	0.0050	mg/Kg
1,2-Dichloroethane	< 0.0050	0.0050	mg/Kg
Carbon Tetrachloride	< 0.0050	0.0050	mg/Kg
Benzene	< 0.0050	0.0050	mg/Kg
Trichloroethene	< 0.0050	0.0050	mg/Kg
1,2-Dichloropropane	< 0.0050	0.0050	mg/Kg
Bromodichloromethane	< 0.0050	0.0050	mg/Kg
Dibromomethane	< 0.0050	0.0050	mg/Kg
cis-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg
Toluene	< 0.0050	0.0050	mg/Kg
trans-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg
1,1,2-Trichloroethane	< 0.0050	0.0050	mg/Kg
1,3-Dichloropropane	< 0.0050	0.0050	mg/Kg
Tetrachloroethene	< 0.0050	0.0050	mg/Kg
Dibromochloromethane	< 0.0050	0.0050	mg/Kg
1,2-Dibromoethane	< 0.0050	0.0050	mg/Kg
Chlorobenzene	< 0.0050	0.0050	mg/Kg
1,1,1,2-Tetrachloroethane	< 0.0050	0.0050	mg/Kg
Ethylbenzene	< 0.0050	0.0050	mg/Kg
P,M-Xylene	< 0.0050	0.0050	mg/Kg

Parameter	Measured Value	MRL [1]	Units
O-Xylene	< 0.0050	0.0050	mg/Kg
Styrene	< 0.0050	0.0050	mg/Kg
Isopropyl benzene	< 0.0050	0.0050	mg/Kg
Bromoform	< 0.0050	0.0050	mg/Kg
1,1,2,2-Tetrachloroethane	< 0.0050	0.0050	mg/Kg
1,2,3-Trichloropropane	< 0.0050	0.0050	mg/Kg
n-Propylbenzene	< 0.0050	0.0050	mg/Kg
Bromobenzene	< 0.0050	0.0050	mg/Kg
1,3,5-Trimethylbenzene	< 0.0050	0.0050	mg/Kg
2+4-Chlorotoluene	< 0.0050	0.0050	mg/Kg
tert-Butylbenzene	< 0.0050	0.0050	mg/Kg
1,2,4-Trimethylbenzene	< 0.0050	0.0050	mg/Kg
sec-Butylbenzene	< 0.0050	0.0050	mg/Kg
p-Isopropyltoluene	< 0.0050	0.0050	mg/Kg
1,3-Dichlorobenzene	< 0.0050	0.0050	mg/Kg
1,4-Dichlorobenzene	< 0.0050	0.0050	mg/Kg
n-Butylbenzene	< 0.0050	0.0050	mg/Kg
1,2-Dichlorobenzene	< 0.0050	0.0050	mg/Kg
1,2-Dibromo-3-chloropropane	< 0.0050	0.0050	mg/Kg
1,2,4-Trichlorobenzene	< 0.0050	0.0050	mg/Kg
Hexachlorobutadiene	< 0.0050	0.0050	mg/Kg
Naphthalene	< 0.0050	0.0050	mg/Kg
1,2,3-Trichlorobenzene	< 0.0050	0.0050	mg/Kg
1,2-Dichloroethane-d4 (Surr)	105		% Recovery
Toluene-d8 (Surr)	100		% Recovery
4-Bromofluorobenzene (Surr)	100		% Recovery

1) MRL = Method reporting limit
2) MRL raised due to interference

Approved By: Joel Kiff

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KIFF Analytical LLC

Report Number : 55902
Date : 5/17/2007

Sample : **B9-3**
Project Name : **Crystal Creamery**
Project Number : **7528.03** Lab Number : 55902-20 Date Analyzed : 4/13/2007
Matrix : Soil Sample Date : 4/11/2007 Analysis Method: EPA 8260B

Parameter	Measured Value	MRL [1]	Units
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg
TPH as Gasoline	< 1.0	1.0	mg/Kg
Dichlorodifluoromethane	< 0.0050	0.0050	mg/Kg
Chloromethane	< 0.0050	0.0050	mg/Kg
Vinyl Chloride	< 0.0050	0.0050	mg/Kg
Bromomethane	< 0.020	0.020	mg/Kg
Chloroethane	< 0.0050	0.0050	mg/Kg
Trichlorofluoromethane	< 0.0050	0.0050	mg/Kg
1,1-Dichloroethene	< 0.0050	0.0050	mg/Kg
Methylene Chloride	< 0.0050	0.0050	mg/Kg
trans-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg
1,1-Dichloroethane	< 0.0050	0.0050	mg/Kg
2,2-Dichloropropane	< 0.0050	0.0050	mg/Kg
cis-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg
Chloroform	< 0.0050	0.0050	mg/Kg
Bromochloromethane	< 0.0050	0.0050	mg/Kg
1,1,1-Trichloroethane	< 0.0050	0.0050	mg/Kg
1,1-Dichloropropene	< 0.0050	0.0050	mg/Kg
1,2-Dichloroethane	< 0.0050	0.0050	mg/Kg
Carbon Tetrachloride	< 0.0050	0.0050	mg/Kg
Benzene	< 0.0050	0.0050	mg/Kg
Trichloroethene	< 0.0050	0.0050	mg/Kg
1,2-Dichloropropane	< 0.0050	0.0050	mg/Kg
Bromodichloromethane	< 0.0050	0.0050	mg/Kg
Dibromomethane	< 0.0050	0.0050	mg/Kg
cis-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg
Toluene	< 0.0050	0.0050	mg/Kg
trans-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg
1,1,2-Trichloroethane	< 0.0050	0.0050	mg/Kg
1,3-Dichloropropane	< 0.0050	0.0050	mg/Kg
Tetrachloroethene	< 0.0050	0.0050	mg/Kg
Dibromochloromethane	< 0.0050	0.0050	mg/Kg
1,2-Dibromoethane	< 0.0050	0.0050	mg/Kg
Chlorobenzene	< 0.0050	0.0050	mg/Kg
1,1,1,2-Tetrachloroethane	< 0.0050	0.0050	mg/Kg
Ethylbenzene	< 0.0050	0.0050	mg/Kg
P,M-Xylene	< 0.0050	0.0050	mg/Kg

Parameter	Measured Value	MRL [1]	Units
O-Xylene	< 0.0050	0.0050	mg/Kg
Styrene	< 0.0050	0.0050	mg/Kg
Isopropyl benzene	< 0.0050	0.0050	mg/Kg
Bromoform	< 0.0050	0.0050	mg/Kg
1,1,2,2-Tetrachloroethane	< 0.0050	0.0050	mg/Kg
1,2,3-Trichloropropane	< 0.0050	0.0050	mg/Kg
n-Propylbenzene	< 0.0050	0.0050	mg/Kg
Bromobenzene	< 0.0050	0.0050	mg/Kg
1,3,5-Trimethylbenzene	< 0.0050	0.0050	mg/Kg
2+4-Chlorotoluene	< 0.0050	0.0050	mg/Kg
tert-Butylbenzene	< 0.0050	0.0050	mg/Kg
1,2,4-Trimethylbenzene	< 0.0050	0.0050	mg/Kg
sec-Butylbenzene	< 0.0050	0.0050	mg/Kg
p-Isopropyltoluene	< 0.0050	0.0050	mg/Kg
1,3-Dichlorobenzene	< 0.0050	0.0050	mg/Kg
1,4-Dichlorobenzene	< 0.0050	0.0050	mg/Kg
n-Butylbenzene	< 0.0050	0.0050	mg/Kg
1,2-Dichlorobenzene	< 0.0050	0.0050	mg/Kg
1,2-Dibromo-3-chloropropane	< 0.0050	0.0050	mg/Kg
1,2,4-Trichlorobenzene	< 0.0050	0.0050	mg/Kg
Hexachlorobutadiene	< 0.0050	0.0050	mg/Kg
Naphthalene	< 0.0050	0.0050	mg/Kg
1,2,3-Trichlorobenzene	< 0.0050	0.0050	mg/Kg
1,2-Dichloroethane-d4 (Surr)	103		% Recovery
Toluene-d8 (Surr)	101		% Recovery
4-Bromofluorobenzene (Surr)	99.6		% Recovery

1) MRL = Method reporting limit
2) MRL raised due to interference

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 55902
Date : 5/17/2007

Sample : **B10-11**
Project Name : **Crystal Creamery**
Project Number : **7528.03** Lab Number : 55902-21 Date Analyzed : 4/13/2007
Matrix : Soil Sample Date : 4/10/2007 Analysis Method: EPA 8260B

Parameter	Measured Value	MRL [1]	Units
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg
TPH as Gasoline	< 1.0	1.0	mg/Kg
Dichlorodifluoromethane	< 0.0050	0.0050	mg/Kg
Chloromethane	< 0.0050	0.0050	mg/Kg
Vinyl Chloride	< 0.0050	0.0050	mg/Kg
Bromomethane	< 0.020	0.020	mg/Kg
Chloroethane	< 0.0050	0.0050	mg/Kg
Trichlorofluoromethane	< 0.0050	0.0050	mg/Kg
1,1-Dichloroethene	< 0.0050	0.0050	mg/Kg
Methylene Chloride	< 0.0050	0.0050	mg/Kg
trans-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg
1,1-Dichloroethane	< 0.0050	0.0050	mg/Kg
2,2-Dichloropropane	< 0.0050	0.0050	mg/Kg
cis-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg
Chloroform	< 0.0050	0.0050	mg/Kg
Bromochloromethane	< 0.0050	0.0050	mg/Kg
1,1,1-Trichloroethane	< 0.0050	0.0050	mg/Kg
1,1-Dichloropropene	< 0.0050	0.0050	mg/Kg
1,2-Dichloroethane	< 0.0050	0.0050	mg/Kg
Carbon Tetrachloride	< 0.0050	0.0050	mg/Kg
Benzene	< 0.0050	0.0050	mg/Kg
Trichloroethene	< 0.0050	0.0050	mg/Kg
1,2-Dichloropropane	< 0.0050	0.0050	mg/Kg
Bromodichloromethane	< 0.0050	0.0050	mg/Kg
Dibromomethane	< 0.0050	0.0050	mg/Kg
cis-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg
Toluene	< 0.0050	0.0050	mg/Kg
trans-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg
1,1,2-Trichloroethane	< 0.0050	0.0050	mg/Kg
1,3-Dichloropropane	< 0.0050	0.0050	mg/Kg
Tetrachloroethene	< 0.0050	0.0050	mg/Kg
Dibromochloromethane	< 0.0050	0.0050	mg/Kg
1,2-Dibromoethane	< 0.0050	0.0050	mg/Kg
Chlorobenzene	< 0.0050	0.0050	mg/Kg
1,1,1,2-Tetrachloroethane	< 0.0050	0.0050	mg/Kg
Ethylbenzene	< 0.0050	0.0050	mg/Kg
P,M-Xylene	< 0.0050	0.0050	mg/Kg

Parameter	Measured Value	MRL [1]	Units
O-Xylene	< 0.0050	0.0050	mg/Kg
Styrene	< 0.0050	0.0050	mg/Kg
Isopropyl benzene	< 0.0050	0.0050	mg/Kg
Bromoform	< 0.0050	0.0050	mg/Kg
1,1,2,2-Tetrachloroethane	< 0.0050	0.0050	mg/Kg
1,2,3-Trichloropropane	< 0.0050	0.0050	mg/Kg
n-Propylbenzene	< 0.0050	0.0050	mg/Kg
Bromobenzene	< 0.0050	0.0050	mg/Kg
1,3,5-Trimethylbenzene	< 0.0050	0.0050	mg/Kg
2+4-Chlorotoluene	< 0.0050	0.0050	mg/Kg
tert-Butylbenzene	< 0.0050	0.0050	mg/Kg
1,2,4-Trimethylbenzene	< 0.0050	0.0050	mg/Kg
sec-Butylbenzene	< 0.0050	0.0050	mg/Kg
p-Isopropyltoluene	< 0.0050	0.0050	mg/Kg
1,3-Dichlorobenzene	< 0.0050	0.0050	mg/Kg
1,4-Dichlorobenzene	< 0.0050	0.0050	mg/Kg
n-Butylbenzene	< 0.0050	0.0050	mg/Kg
1,2-Dichlorobenzene	< 0.0050	0.0050	mg/Kg
1,2-Dibromo-3-chloropropane	< 0.0050	0.0050	mg/Kg
1,2,4-Trichlorobenzene	< 0.0050	0.0050	mg/Kg
Hexachlorobutadiene	< 0.0050	0.0050	mg/Kg
Naphthalene	< 0.0050	0.0050	mg/Kg
1,2,3-Trichlorobenzene	< 0.0050	0.0050	mg/Kg
1,2-Dichloroethane-d4 (Surr)	103		% Recovery
Toluene-d8 (Surr)	100		% Recovery
4-Bromofluorobenzene (Surr)	100		% Recovery

1) MRL = Method reporting limit
2) MRL raised due to interference

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 55902
Date : 5/17/2007

Sample : **B14-5**
Project Name : **Crystal Creamery**
Project Number : **7528.03** Lab Number : 55902-23 Date Analyzed : 4/13/2007
Matrix : Soil Sample Date : 4/11/2007 Analysis Method: EPA 8260B

Parameter	Measured Value	MRL [1]	Units
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg
TPH as Gasoline	< 1.0	1.0	mg/Kg
Dichlorodifluoromethane	< 0.0050	0.0050	mg/Kg
Chloromethane	< 0.0050	0.0050	mg/Kg
Vinyl Chloride	< 0.0050	0.0050	mg/Kg
Bromomethane	< 0.020	0.020	mg/Kg
Chloroethane	< 0.0050	0.0050	mg/Kg
Trichlorofluoromethane	< 0.0050	0.0050	mg/Kg
1,1-Dichloroethene	< 0.0050	0.0050	mg/Kg
Methylene Chloride	< 0.0050	0.0050	mg/Kg
trans-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg
1,1-Dichloroethane	< 0.0050	0.0050	mg/Kg
2,2-Dichloropropane	< 0.0050	0.0050	mg/Kg
cis-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg
Chloroform	< 0.0050	0.0050	mg/Kg
Bromochloromethane	< 0.0050	0.0050	mg/Kg
1,1,1-Trichloroethane	< 0.0050	0.0050	mg/Kg
1,1-Dichloropropene	< 0.0050	0.0050	mg/Kg
1,2-Dichloroethane	< 0.0050	0.0050	mg/Kg
Carbon Tetrachloride	< 0.0050	0.0050	mg/Kg
Benzene	< 0.0050	0.0050	mg/Kg
Trichloroethene	< 0.0050	0.0050	mg/Kg
1,2-Dichloropropane	< 0.0050	0.0050	mg/Kg
Bromodichloromethane	< 0.0050	0.0050	mg/Kg
Dibromomethane	< 0.0050	0.0050	mg/Kg
cis-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg
Toluene	< 0.0050	0.0050	mg/Kg
trans-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg
1,1,2-Trichloroethane	< 0.0050	0.0050	mg/Kg
1,3-Dichloropropane	< 0.0050	0.0050	mg/Kg
Tetrachloroethene	< 0.0050	0.0050	mg/Kg
Dibromochloromethane	< 0.0050	0.0050	mg/Kg
1,2-Dibromoethane	< 0.0050	0.0050	mg/Kg
Chlorobenzene	< 0.0050	0.0050	mg/Kg
1,1,1,2-Tetrachloroethane	< 0.0050	0.0050	mg/Kg
Ethylbenzene	< 0.0050	0.0050	mg/Kg
P,M-Xylene	< 0.0050	0.0050	mg/Kg

Parameter	Measured Value	MRL [1]	Units
O-Xylene	< 0.0050	0.0050	mg/Kg
Styrene	< 0.0050	0.0050	mg/Kg
Isopropyl benzene	< 0.0050	0.0050	mg/Kg
Bromoform	< 0.0050	0.0050	mg/Kg
1,1,2,2-Tetrachloroethane	< 0.0050	0.0050	mg/Kg
1,2,3-Trichloropropane	< 0.0050	0.0050	mg/Kg
n-Propylbenzene	< 0.0050	0.0050	mg/Kg
Bromobenzene	< 0.0050	0.0050	mg/Kg
1,3,5-Trimethylbenzene	< 0.0050	0.0050	mg/Kg
2+4-Chlorotoluene	< 0.0050	0.0050	mg/Kg
tert-Butylbenzene	< 0.0050	0.0050	mg/Kg
1,2,4-Trimethylbenzene	< 0.0050	0.0050	mg/Kg
sec-Butylbenzene	< 0.0050	0.0050	mg/Kg
p-Isopropyltoluene	< 0.0050	0.0050	mg/Kg
1,3-Dichlorobenzene	< 0.0050	0.0050	mg/Kg
1,4-Dichlorobenzene	< 0.0050	0.0050	mg/Kg
n-Butylbenzene	< 0.0050	0.0050	mg/Kg
1,2-Dichlorobenzene	< 0.0050	0.0050	mg/Kg
1,2-Dibromo-3-chloropropane	< 0.0050	0.0050	mg/Kg
1,2,4-Trichlorobenzene	< 0.0050	0.0050	mg/Kg
Hexachlorobutadiene	< 0.0050	0.0050	mg/Kg
Naphthalene	< 0.0050	0.0050	mg/Kg
1,2,3-Trichlorobenzene	< 0.0050	0.0050	mg/Kg
1,2-Dichloroethane-d4 (Surr)	104		% Recovery
Toluene-d8 (Surr)	101		% Recovery
4-Bromofluorobenzene (Surr)	99.7		% Recovery

1) MRL = Method reporting limit
2) MRL raised due to interference

Approved By: Joel Kiff

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KIFF Analytical LLC

Report Number : 55902
Date : 5/17/2007

Sample : **B15-5**
Project Name : **Crystal Creamery**
Project Number : **7528.03** Lab Number : 55902-24 Date Analyzed : 4/13/2007, 4/14/2007
Matrix : Soil Sample Date : 4/11/2007 Analysis Method: EPA 8260B

Parameter	Measured Value	MRL [1]	Units
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg
TPH as Gasoline	< 1.0	1.0	mg/Kg
Dichlorodifluoromethane	< 0.0050	0.0050	mg/Kg
Chloromethane	< 0.0050	0.0050	mg/Kg
Vinyl Chloride	< 0.0050	0.0050	mg/Kg
Bromomethane	< 0.020	0.020	mg/Kg
Chloroethane	< 0.0050	0.0050	mg/Kg
Trichlorofluoromethane	< 0.0050	0.0050	mg/Kg
1,1-Dichloroethene	< 0.0050	0.0050	mg/Kg
Methylene Chloride	< 0.0050	0.0050	mg/Kg
trans-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg
1,1-Dichloroethane	< 0.0050	0.0050	mg/Kg
2,2-Dichloropropane	< 0.0050	0.0050	mg/Kg
cis-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg
Chloroform	< 0.0050	0.0050	mg/Kg
Bromochloromethane	< 0.0050	0.0050	mg/Kg
1,1,1-Trichloroethane	< 0.0050	0.0050	mg/Kg
1,1-Dichloropropene	< 0.0050	0.0050	mg/Kg
1,2-Dichloroethane	< 0.0050	0.0050	mg/Kg
Carbon Tetrachloride	< 0.0050	0.0050	mg/Kg
Benzene	< 0.0050	0.0050	mg/Kg
Trichloroethene	< 0.0050	0.0050	mg/Kg
1,2-Dichloropropane	< 0.0050	0.0050	mg/Kg
Bromodichloromethane	< 0.0050	0.0050	mg/Kg
Dibromomethane	< 0.0050	0.0050	mg/Kg
cis-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg
Toluene	< 0.0050	0.0050	mg/Kg
trans-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg
1,1,2-Trichloroethane	< 0.0050	0.0050	mg/Kg
1,3-Dichloropropane	< 0.0050	0.0050	mg/Kg
Tetrachloroethene	< 0.0050	0.0050	mg/Kg
Dibromochloromethane	< 0.0050	0.0050	mg/Kg
1,2-Dibromoethane	< 0.0050	0.0050	mg/Kg
Chlorobenzene	< 0.0050	0.0050	mg/Kg
1,1,1,2-Tetrachloroethane	< 0.0050	0.0050	mg/Kg
Ethylbenzene	< 0.0050	0.0050	mg/Kg
P,M-Xylene	< 0.0050	0.0050	mg/Kg

Parameter	Measured Value	MRL [1]	Units
O-Xylene	< 0.0050	0.0050	mg/Kg
Styrene	< 0.0050	0.0050	mg/Kg
Isopropyl benzene	< 0.0050	0.0050	mg/Kg
Bromoform	< 0.0050	0.0050	mg/Kg
1,1,2,2-Tetrachloroethane	< 0.0050	0.0050	mg/Kg
1,2,3-Trichloropropane	< 0.0050	0.0050	mg/Kg
n-Propylbenzene	< 0.0050	0.0050	mg/Kg
Bromobenzene	< 0.0050	0.0050	mg/Kg
1,3,5-Trimethylbenzene	< 0.0050	0.0050	mg/Kg
2+4-Chlorotoluene	< 0.0050	0.0050	mg/Kg
tert-Butylbenzene	< 0.0050	0.0050	mg/Kg
1,2,4-Trimethylbenzene	< 0.0050	0.0050	mg/Kg
sec-Butylbenzene	< 0.0050	0.0050	mg/Kg
p-Isopropyltoluene	< 0.0050	0.0050	mg/Kg
1,3-Dichlorobenzene	< 0.0050	0.0050	mg/Kg
1,4-Dichlorobenzene	< 0.0050	0.0050	mg/Kg
n-Butylbenzene	< 0.0050	0.0050	mg/Kg
1,2-Dichlorobenzene	< 0.0050	0.0050	mg/Kg
1,2-Dibromo-3-chloropropane	< 0.0050	0.0050	mg/Kg
1,2,4-Trichlorobenzene	< 0.0050	0.0050	mg/Kg
Hexachlorobutadiene	< 0.0050	0.0050	mg/Kg
Naphthalene	< 0.0050	0.0050	mg/Kg
1,2,3-Trichlorobenzene	< 0.0050	0.0050	mg/Kg
1,2-Dichloroethane-d4 (Surr)	103		% Recovery
Toluene-d8 (Surr)	98.7		% Recovery
4-Bromofluorobenzene (Surr)	100		% Recovery

1) MRL = Method reporting limit
2) MRL raised due to interference

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 55902
Date : 5/17/2007

Sample : **B16-10**
Project Name : **Crystal Creamery**
Project Number : **7528.03** Lab Number : 55902-25 Date Analyzed : 4/13/2007
Matrix : Soil Sample Date : 4/11/2007 Analysis Method: EPA 8260B

Parameter	Measured Value	MRL [1]	Units
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg
TPH as Gasoline	< 1.0	1.0	mg/Kg
Dichlorodifluoromethane	< 0.0050	0.0050	mg/Kg
Chloromethane	< 0.0050	0.0050	mg/Kg
Vinyl Chloride	< 0.0050	0.0050	mg/Kg
Bromomethane	< 0.020	0.020	mg/Kg
Chloroethane	< 0.0050	0.0050	mg/Kg
Trichlorofluoromethane	< 0.0050	0.0050	mg/Kg
1,1-Dichloroethene	< 0.0050	0.0050	mg/Kg
Methylene Chloride	< 0.0050	0.0050	mg/Kg
trans-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg
1,1-Dichloroethane	< 0.0050	0.0050	mg/Kg
2,2-Dichloropropane	< 0.0050	0.0050	mg/Kg
cis-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg
Chloroform	< 0.0050	0.0050	mg/Kg
Bromochloromethane	< 0.0050	0.0050	mg/Kg
1,1,1-Trichloroethane	< 0.0050	0.0050	mg/Kg
1,1-Dichloropropene	< 0.0050	0.0050	mg/Kg
1,2-Dichloroethane	< 0.0050	0.0050	mg/Kg
Carbon Tetrachloride	< 0.0050	0.0050	mg/Kg
Benzene	< 0.0050	0.0050	mg/Kg
Trichloroethene	< 0.0050	0.0050	mg/Kg
1,2-Dichloropropane	< 0.0050	0.0050	mg/Kg
Bromodichloromethane	< 0.0050	0.0050	mg/Kg
Dibromomethane	< 0.0050	0.0050	mg/Kg
cis-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg
Toluene	< 0.0050	0.0050	mg/Kg
trans-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg
1,1,2-Trichloroethane	< 0.0050	0.0050	mg/Kg
1,3-Dichloropropane	< 0.0050	0.0050	mg/Kg
Tetrachloroethene	< 0.0050	0.0050	mg/Kg
Dibromochloromethane	< 0.0050	0.0050	mg/Kg
1,2-Dibromoethane	< 0.0050	0.0050	mg/Kg
Chlorobenzene	< 0.0050	0.0050	mg/Kg
1,1,1,2-Tetrachloroethane	< 0.0050	0.0050	mg/Kg
Ethylbenzene	< 0.0050	0.0050	mg/Kg
P,M-Xylene	< 0.0050	0.0050	mg/Kg

Parameter	Measured Value	MRL [1]	Units
O-Xylene	< 0.0050	0.0050	mg/Kg
Styrene	< 0.0050	0.0050	mg/Kg
Isopropyl benzene	< 0.0050	0.0050	mg/Kg
Bromoform	< 0.0050	0.0050	mg/Kg
1,1,2,2-Tetrachloroethane	< 0.0050	0.0050	mg/Kg
1,2,3-Trichloropropane	< 0.0050	0.0050	mg/Kg
n-Propylbenzene	< 0.0050	0.0050	mg/Kg
Bromobenzene	< 0.0050	0.0050	mg/Kg
1,3,5-Trimethylbenzene	< 0.0050	0.0050	mg/Kg
2+4-Chlorotoluene	< 0.0050	0.0050	mg/Kg
tert-Butylbenzene	< 0.0050	0.0050	mg/Kg
1,2,4-Trimethylbenzene	< 0.0050	0.0050	mg/Kg
sec-Butylbenzene	< 0.0050	0.0050	mg/Kg
p-Isopropyltoluene	< 0.0050	0.0050	mg/Kg
1,3-Dichlorobenzene	< 0.0050	0.0050	mg/Kg
1,4-Dichlorobenzene	< 0.0050	0.0050	mg/Kg
n-Butylbenzene	< 0.0050	0.0050	mg/Kg
1,2-Dichlorobenzene	< 0.0050	0.0050	mg/Kg
1,2-Dibromo-3-chloropropane	< 0.0050	0.0050	mg/Kg
1,2,4-Trichlorobenzene	< 0.0050	0.0050	mg/Kg
Hexachlorobutadiene	< 0.0050	0.0050	mg/Kg
Naphthalene	< 0.0050	0.0050	mg/Kg
1,2,3-Trichlorobenzene	< 0.0050	0.0050	mg/Kg
1,2-Dichloroethane-d4 (Surr)	106		% Recovery
Toluene-d8 (Surr)	100		% Recovery
4-Bromofluorobenzene (Surr)	99.8		% Recovery

1) MRL = Method reporting limit
2) MRL raised due to interference

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

Report Number : 55902

Date : 5/17/2007

QC Report : Method Blank Data

Project Name : **Crystal Creamery**

Project Number : **7528.03**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	< 1.0	1.0	mg/Kg	M EPA 8015	4/13/2007
TPH as Motor Oil	< 10	10	mg/Kg	M EPA 8015	4/13/2007
1-Chlorooctadecane (Diesel Surrogate)	92.9		%	M EPA 8015	4/13/2007
TPH as Diesel	< 50	50	ug/L	M EPA 8015	4/13/2007
TPH as Motor Oil	< 100	100	ug/L	M EPA 8015	4/13/2007
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	4/21/2007
TPH as Motor Oil (w/ Silica Gel)	< 100	100	ug/L	M EPA 8015	4/21/2007
Octacosane (Diesel Surrogate)	114		%	M EPA 8015	4/13/2007
Octacosane (Diesel Silica Gel Surr)	103		%	M EPA 8015	4/21/2007
TPH as Diesel	< 50	50	ug/L	M EPA 8015	4/16/2007
TPH as Motor Oil	< 100	100	ug/L	M EPA 8015	4/16/2007
Octacosane (Diesel Surrogate)	92.4		%	M EPA 8015	4/16/2007
TPH as Diesel	< 1.0	1.0	mg/Kg	M EPA 8015	4/28/2007
TPH as Motor Oil	< 10	10	mg/Kg	M EPA 8015	4/28/2007
1-Chlorooctadecane (Diesel Surrogate)	72.9		%	M EPA 8015	4/28/2007
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	4/12/2007
Dichlorodifluoromethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007
Chloromethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007
Vinyl Chloride	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007
Bromomethane	< 0.020	0.020	mg/Kg	EPA 8260B	4/12/2007
Chloroethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007
Trichlorofluoromethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007
1,1-Dichloroethene	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007
Methylene Chloride	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007
trans-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007
1,1-Dichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007
2,2-Dichloropropane	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007
cis-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007
Chloroform	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Bromochloromethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007
1,1,1-Trichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007
1,1-Dichloropropene	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007
1,2-Dichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007
Carbon Tetrachloride	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007
Trichloroethene	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007
1,2-Dichloropropane	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007
Bromodichloromethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007
Dibromomethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007
cis-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007
trans-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007
1,1,2-Trichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007
1,3-Dichloropropane	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007
Tetrachloroethene	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007
Dibromochloromethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007
1,2-Dibromoethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007
Chlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007
1,1,1,2-Tetrachloroethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007
P,M-Xylene	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007
O-Xylene	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007
Styrene	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007
Isopropyl benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007
Bromoform	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007
1,1,2,2-Tetrachloroethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007
1,2,3-Trichloropropane	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007
n-Propylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007
Bromobenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007
1,3,5-Trimethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007
2+4-Chlorotoluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007
tert-Butylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007
1,2,4-Trimethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007
sec-Butylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 55902

Date : 5/17/2007

QC Report : Method Blank Data

Project Name : **Crystal Creamery**

Project Number : **7528.03**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
p-Isopropyltoluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007
1,3-Dichlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007
1,4-Dichlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007
n-Butylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007
1,2-Dichlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007
1,2-Dibromo-3-chloropropane	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007
1,2,4-Trichlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007
Hexachlorobutadiene	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007
Naphthalene	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007
1,2,3-Trichlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/12/2007
1,2-Dichloroethane-d4 (Surr)	104		%	EPA 8260B	4/12/2007
4-Bromofluorobenzene (Surr)	100		%	EPA 8260B	4/12/2007
Toluene - d8 (Surr)	101		%	EPA 8260B	4/12/2007
Naphthalene	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/13/2007
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	4/14/2007
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Dichlorodifluoromethane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Chloromethane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Vinyl Chloride	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Bromomethane	< 20	20	ug/L	EPA 8260B	4/14/2007
Chloroethane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Trichlorofluoromethane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,1-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Methylene Chloride	< 5.0	5.0	ug/L	EPA 8260B	4/14/2007
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,1-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
2,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Chloroform	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Bromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,1-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Carbon Tetrachloride	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Benzene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Trichloroethene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Bromodichloromethane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Dibromomethane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Toluene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,3-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Tetrachloroethene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Dibromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Chlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
P,M-Xylene	< 1.0	1.0	ug/L	EPA 8260B	4/14/2007
O-Xylene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Styrene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Isopropyl benzene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Bromoform	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,2,3-Trichloropropane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
n-Propylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Bromobenzene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
2+4-Chlorotoluene	< 1.0	1.0	ug/L	EPA 8260B	4/14/2007
tert-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
sec-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
p-Isopropyltoluene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,3-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,4-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
n-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007

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KIFF ANALYTICAL, LLC

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Report Number : 55902

Date : 5/17/2007

QC Report : Method Blank Data

Project Name : **Crystal Creamery**

Project Number : **7528.03**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
1,2-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Hexachlorobutadiene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,2-Dichloroethane-d4 (Surr)	101		%	EPA 8260B	4/14/2007
4-Bromofluorobenzene (Surr)	89.1		%	EPA 8260B	4/14/2007
Toluene - d8 (Surr)	96.6		%	EPA 8260B	4/14/2007
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	4/14/2007
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Dichlorodifluoromethane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Chloromethane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Vinyl Chloride	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Bromomethane	< 20	20	ug/L	EPA 8260B	4/14/2007
Chloroethane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Trichlorofluoromethane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,1-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Methylene Chloride	< 5.0	5.0	ug/L	EPA 8260B	4/14/2007
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,1-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
2,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Chloroform	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Bromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,1-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Carbon Tetrachloride	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Benzene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Trichloroethene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Bromodichloromethane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Dibromomethane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Toluene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,3-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Tetrachloroethene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Dibromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Chlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
P,M-Xylene	< 1.0	1.0	ug/L	EPA 8260B	4/14/2007
O-Xylene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Styrene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Isopropyl benzene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Bromoform	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,2,3-Trichloropropane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
n-Propylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Bromobenzene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
2+4-Chlorotoluene	< 1.0	1.0	ug/L	EPA 8260B	4/14/2007
tert-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
sec-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
p-Isopropyltoluene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,3-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,4-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
n-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,2-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Hexachlorobutadiene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007

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Report Number : 55902

Date : 5/17/2007

QC Report : Method Blank Data

Project Name : **Crystal Creamery**

Project Number : **7528.03**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
1,2-Dichloroethane-d4 (Surr)	108		%	EPA 8260B	4/14/2007
4-Bromofluorobenzene (Surr)	107		%	EPA 8260B	4/14/2007
Toluene - d8 (Surr)	102		%	EPA 8260B	4/14/2007
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	4/14/2007
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Dichlorodifluoromethane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Chloromethane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Vinyl Chloride	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Bromomethane	< 20	20	ug/L	EPA 8260B	4/14/2007
Chloroethane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Trichlorofluoromethane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,1-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Methylene Chloride	< 5.0	5.0	ug/L	EPA 8260B	4/14/2007
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,1-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
2,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Chloroform	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Bromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,1-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Carbon Tetrachloride	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Benzene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Trichloroethene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Bromodichloromethane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Dibromomethane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Toluene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,3-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Tetrachloroethene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Dibromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Chlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
P,M-Xylene	< 1.0	1.0	ug/L	EPA 8260B	4/14/2007
O-Xylene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Styrene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Isopropyl benzene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Bromoform	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,2,3-Trichloropropane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
n-Propylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Bromobenzene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
2+4-Chlorotoluene	< 1.0	1.0	ug/L	EPA 8260B	4/14/2007
tert-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
sec-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
p-Isopropyltoluene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,3-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,4-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
n-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,2-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Hexachlorobutadiene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	4/14/2007
1,2-Dichloroethane-d4 (Surr)	104		%	EPA 8260B	4/14/2007
4-Bromofluorobenzene (Surr)	100		%	EPA 8260B	4/14/2007
Toluene - d8 (Surr)	101		%	EPA 8260B	4/14/2007

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 55902

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 5/17/2007

Project Name : **Crystal Creamery**

Project Number : **7528.03**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
TPH as Diesel	55902-15	4.7	20.0	20.0	21.3	22.4	mg/Kg	M EPA 8015	4/13/07	86.4	90.8	4.94	60-140	25
TPH as Diesel	Blank	<50	1000	1000	898	969	ug/L	M EPA 8015	4/13/07	89.8	96.9	7.63	70-130	25
TPH as Diesel	Blank	<50	1000	1000	1150	1230	ug/L	M EPA 8015	4/16/07	115	123	6.13	70-130	25
TPH as Diesel	56000-01	120	20.0	20.0	364	160	mg/Kg	M EPA 8015	4/28/07	265	116	78.0	60-140	25
1,1-Dichloroethane	55902-22	<0.0050	0.0396	0.0394	0.0391	0.0382	mg/Kg	EPA 8260B	4/12/07	98.6	97.1	1.53	70-130	25
Benzene	55902-22	<0.0050	0.0396	0.0394	0.0408	0.0403	mg/Kg	EPA 8260B	4/12/07	103	102	0.773	70-130	25
1,2-Dichloroethane	55902-22	<0.0050	0.0396	0.0394	0.0410	0.0409	mg/Kg	EPA 8260B	4/12/07	104	104	0.228	70-130	25
Toluene	55902-22	<0.0050	0.0396	0.0394	0.0404	0.0396	mg/Kg	EPA 8260B	4/12/07	102	100	1.37	70-130	25
Chlorobenzene	55902-22	<0.0050	0.0396	0.0394	0.0402	0.0391	mg/Kg	EPA 8260B	4/12/07	101	99.4	2.11	70-130	25
Tert-Butanol	55902-22	<0.0050	0.198	0.197	0.180	0.176	mg/Kg	EPA 8260B	4/12/07	90.9	89.5	1.55	70-130	25
Methyl-t-Butyl Ether	55902-22	<0.0050	0.0396	0.0394	0.0432	0.0421	mg/Kg	EPA 8260B	4/12/07	109	107	1.94	70-130	25
1,1-Dichloroethane	55939-01	<0.0050	0.0395	0.0397	0.0388	0.0389	mg/Kg	EPA 8260B	4/14/07	98.2	98.1	0.0377	70-130	25
Benzene	55939-01	<0.0050	0.0395	0.0397	0.0399	0.0405	mg/Kg	EPA 8260B	4/14/07	101	102	1.04	70-130	25
1,2-Dichloroethane	55939-01	<0.0050	0.0395	0.0397	0.0364	0.0365	mg/Kg	EPA 8260B	4/14/07	92.1	91.9	0.212	70-130	25
Toluene	55939-01	<0.0050	0.0395	0.0397	0.0406	0.0408	mg/Kg	EPA 8260B	4/14/07	103	103	0.179	70-130	25
Chlorobenzene	55939-01	<0.0050	0.0395	0.0397	0.0408	0.0406	mg/Kg	EPA 8260B	4/14/07	103	102	0.825	70-130	25
Tert-Butanol	55939-01	<0.0050	0.198	0.198	0.176	0.174	mg/Kg	EPA 8260B	4/14/07	89.3	87.9	1.56	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 55902

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 5/17/2007

Project Name : **Crystal Creamery**

Project Number : **7528.03**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Methyl-t-Butyl Ether	55939-01	<0.0050	0.0395	0.0397	0.0383	0.0390	mg/Kg	EPA 8260B	4/14/07	96.9	98.2	1.41	70-130	25
1,1-Dichloroethane	55905-01	<0.50	40.0	40.0	37.1	36.6	ug/L	EPA 8260B	4/14/07	92.7	91.4	1.36	70-130	25
Benzene	55905-01	<0.50	40.0	40.0	41.1	40.4	ug/L	EPA 8260B	4/14/07	103	101	1.77	70-130	25
1,2-Dichloroethane	55905-01	<0.50	40.0	40.0	41.9	41.9	ug/L	EPA 8260B	4/14/07	105	105	0.112	70-130	25
Toluene	55905-01	<0.50	40.0	40.0	38.8	38.1	ug/L	EPA 8260B	4/14/07	97.1	95.2	1.95	70-130	25
Chlorobenzene	55905-01	<0.50	40.0	40.0	37.4	36.7	ug/L	EPA 8260B	4/14/07	93.4	91.8	1.73	70-130	25
Tert-Butanol	55905-01	<5.0	200	200	196	199	ug/L	EPA 8260B	4/14/07	98.1	99.7	1.66	70-130	25
Methyl-t-Butyl Ether	55905-01	110	40.0	40.0	139	138	ug/L	EPA 8260B	4/14/07	80.4	77.0	4.23	70-130	25
1,1-Dichloroethane	55905-05	<0.50	40.0	40.0	41.4	42.3	ug/L	EPA 8260B	4/14/07	104	106	2.07	70-130	25
Benzene	55905-05	<0.50	40.0	40.0	39.6	39.0	ug/L	EPA 8260B	4/14/07	98.9	97.6	1.28	70-130	25
1,2-Dichloroethane	55905-05	<0.50	40.0	40.0	47.9	47.9	ug/L	EPA 8260B	4/14/07	120	120	0.0733	70-130	25
Toluene	55905-05	<0.50	40.0	40.0	39.9	39.5	ug/L	EPA 8260B	4/14/07	99.9	98.7	1.20	70-130	25
Chlorobenzene	55905-05	<0.50	40.0	40.0	41.0	40.4	ug/L	EPA 8260B	4/14/07	102	101	1.41	70-130	25
Tert-Butanol	55905-05	<5.0	200	200	210	206	ug/L	EPA 8260B	4/14/07	105	103	1.82	70-130	25
Methyl-t-Butyl Ether	55905-05	7.5	40.0	40.0	49.7	50.0	ug/L	EPA 8260B	4/14/07	106	106	0.683	70-130	25
1,1-Dichloroethane	55905-06	<0.50	40.0	40.0	40.6	40.2	ug/L	EPA 8260B	4/14/07	102	100	1.20	70-130	25
Benzene	55905-06	<0.50	40.0	40.0	41.2	40.9	ug/L	EPA 8260B	4/14/07	103	102	0.653	70-130	25
1,2-Dichloroethane	55905-06	<0.50	40.0	40.0	43.6	43.9	ug/L	EPA 8260B	4/14/07	109	110	0.746	70-130	25
Toluene	55905-06	<0.50	40.0	40.0	40.9	40.8	ug/L	EPA 8260B	4/14/07	102	102	0.246	70-130	25
Chlorobenzene	55905-06	<0.50	40.0	40.0	40.4	40.4	ug/L	EPA 8260B	4/14/07	101	101	0.0185	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 55902

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 5/17/2007

Project Name : **Crystal Creamery**

Project Number : **7528.03**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Tert-Butanol	55905-06	<5.0	200	200	225	229	ug/L	EPA 8260B	4/14/07	112	114	1.80	70-130	25
Methyl-t-Butyl Ether	55905-06	<0.50	40.0	40.0	37.3	37.7	ug/L	EPA 8260B	4/14/07	93.2	94.2	1.10	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 55902

QC Report : Laboratory Control Sample (LCS)

Date : 5/17/2007

Project Name : **Crystal Creamery**

Project Number : **7528.03**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
TPH as Diesel	20.0	mg/Kg	M EPA 8015	4/13/07	81.2	70-130
TPH as Diesel	20.0	mg/Kg	M EPA 8015	4/27/07	79.3	70-130
1,1-Dichloroethane	0.0395	mg/Kg	EPA 8260B	4/12/07	101	70-130
Benzene	0.0395	mg/Kg	EPA 8260B	4/12/07	105	70-130
1,2-Dichloroethane	0.0395	mg/Kg	EPA 8260B	4/12/07	104	70-130
Toluene	0.0395	mg/Kg	EPA 8260B	4/12/07	103	70-130
Chlorobenzene	0.0395	mg/Kg	EPA 8260B	4/12/07	104	70-130
Tert-Butanol	0.198	mg/Kg	EPA 8260B	4/12/07	90.0	70-130
Methyl-t-Butyl Ether	0.0395	mg/Kg	EPA 8260B	4/12/07	108	70-130
1,1-Dichloroethane	0.0394	mg/Kg	EPA 8260B	4/13/07	91.4	70-130
Benzene	0.0394	mg/Kg	EPA 8260B	4/13/07	98.4	70-130
1,2-Dichloroethane	0.0394	mg/Kg	EPA 8260B	4/13/07	92.7	70-130
Toluene	0.0394	mg/Kg	EPA 8260B	4/13/07	97.4	70-130
Chlorobenzene	0.0394	mg/Kg	EPA 8260B	4/13/07	97.3	70-130
Tert-Butanol	0.197	mg/Kg	EPA 8260B	4/13/07	83.3	70-130
Methyl-t-Butyl Ether	0.0394	mg/Kg	EPA 8260B	4/13/07	99.8	70-130
1,1-Dichloroethane	40.0	ug/L	EPA 8260B	4/14/07	90.6	70-130

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 55902

QC Report : Laboratory Control Sample (LCS)

Date : 5/17/2007

Project Name : **Crystal Creamery**

Project Number : **7528.03**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	4/14/07	99.4	70-130
1,2-Dichloroethane	40.0	ug/L	EPA 8260B	4/14/07	104	70-130
Toluene	40.0	ug/L	EPA 8260B	4/14/07	95.4	70-130
Chlorobenzene	40.0	ug/L	EPA 8260B	4/14/07	88.4	70-130
Tert-Butanol	200	ug/L	EPA 8260B	4/14/07	99.7	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	4/14/07	102	70-130
1,1-Dichloroethane	40.0	ug/L	EPA 8260B	4/14/07	98.7	70-130
Benzene	40.0	ug/L	EPA 8260B	4/14/07	95.0	70-130
1,2-Dichloroethane	40.0	ug/L	EPA 8260B	4/14/07	118	70-130
Toluene	40.0	ug/L	EPA 8260B	4/14/07	98.9	70-130
Chlorobenzene	40.0	ug/L	EPA 8260B	4/14/07	98.4	70-130
Tert-Butanol	200	ug/L	EPA 8260B	4/14/07	105	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	4/14/07	101	70-130
1,1-Dichloroethane	40.0	ug/L	EPA 8260B	4/14/07	102	70-130
Benzene	40.0	ug/L	EPA 8260B	4/14/07	101	70-130
1,2-Dichloroethane	40.0	ug/L	EPA 8260B	4/14/07	110	70-130
Toluene	40.0	ug/L	EPA 8260B	4/14/07	103	70-130
Chlorobenzene	40.0	ug/L	EPA 8260B	4/14/07	100	70-130
Tert-Butanol	200	ug/L	EPA 8260B	4/14/07	112	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	4/14/07	97.6	70-130

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 55902

QC Report : Laboratory Control Sample (LCS)

Date : 5/17/2007

Project Name : **Crystal Creamery**

Project Number : **7528.03**

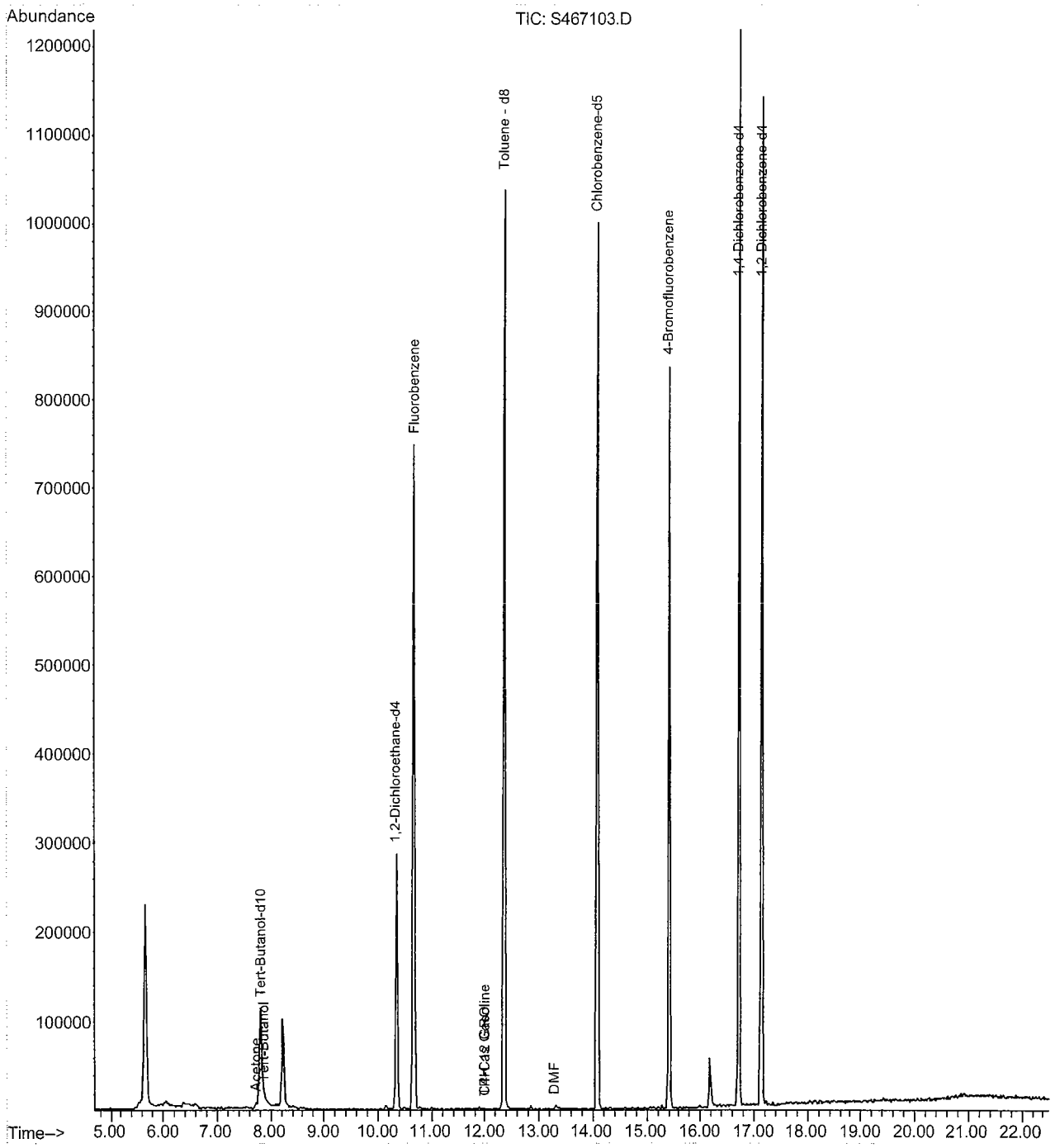
Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit

Approved By: Joel Kiff

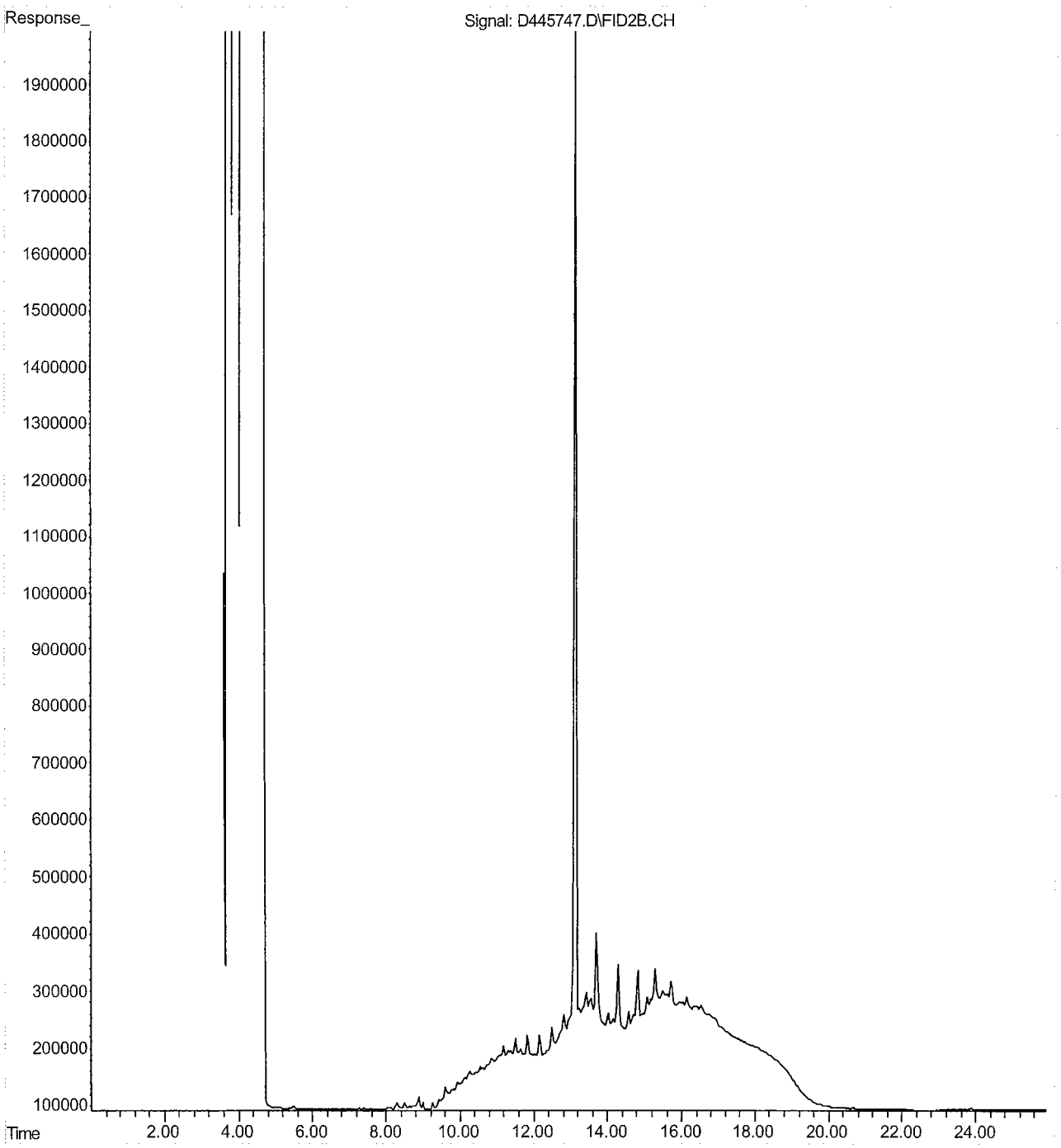
KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

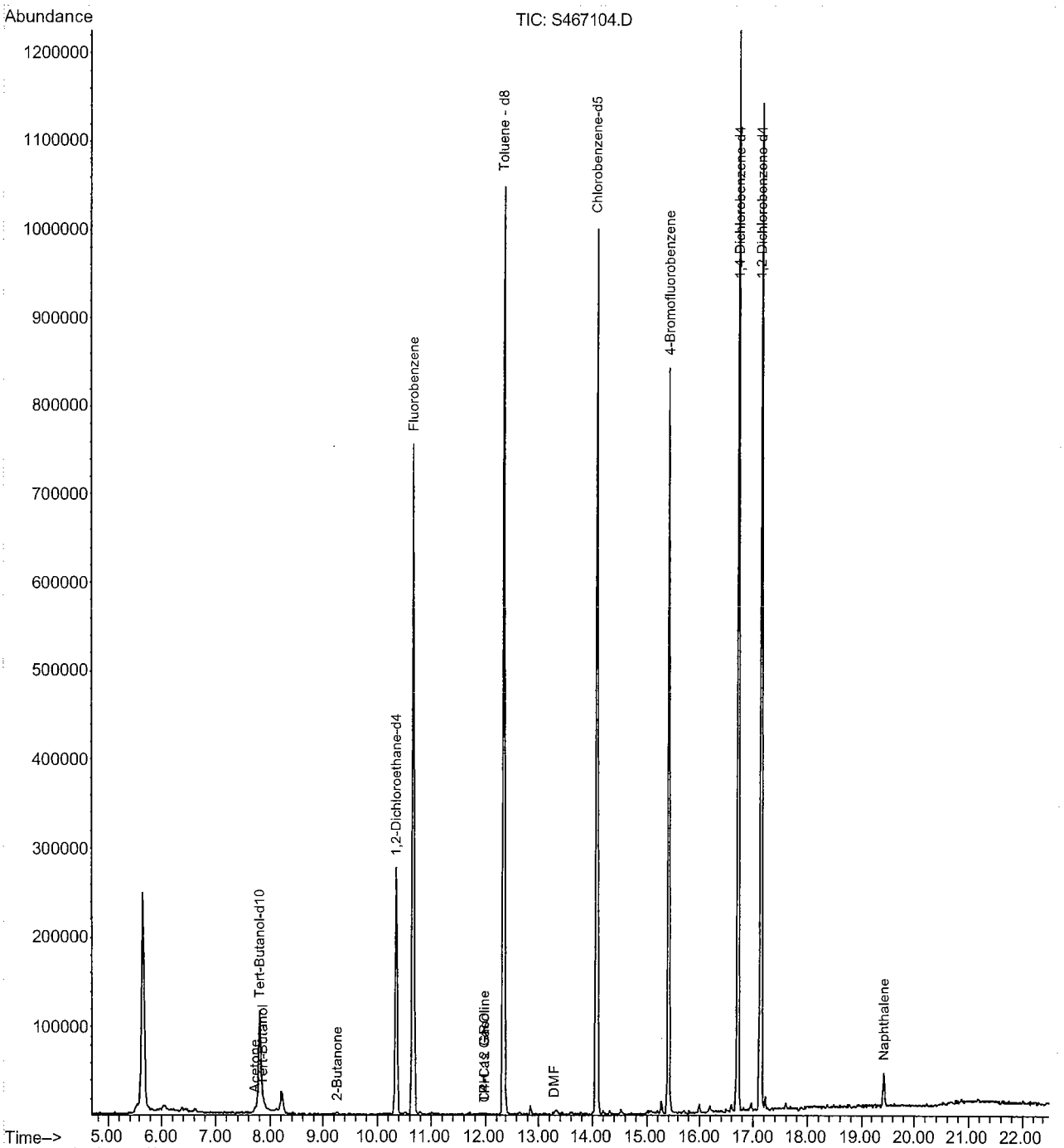
File : o:\hpchem\S467103.D
Operator : CNR
Acquired : 14 Apr 2007 3:23 pm using AcqMethod VOA
Instrument : GCMS4
Sample Name: 55902-01-01
Misc Info :
Vial Number: 13



File : o:\d_temp\D445747.D
Operator : YML
Acquired : 21 Apr 2007 10:44 am using AcqMethod BOTH.M
Instrument : Diesel #2
Sample Name: 55902-01 g w 1 ;041210|120559
Misc Info :
Vial Number: 89



File : o:\hpchem\S467104.D
Operator : CNR
Acquired : 14 Apr 2007 3:58 pm using AcqMethod VOA
Instrument : GCMS4
Sample Name: 55902-02-01
Misc Info :
Vial Number: 14



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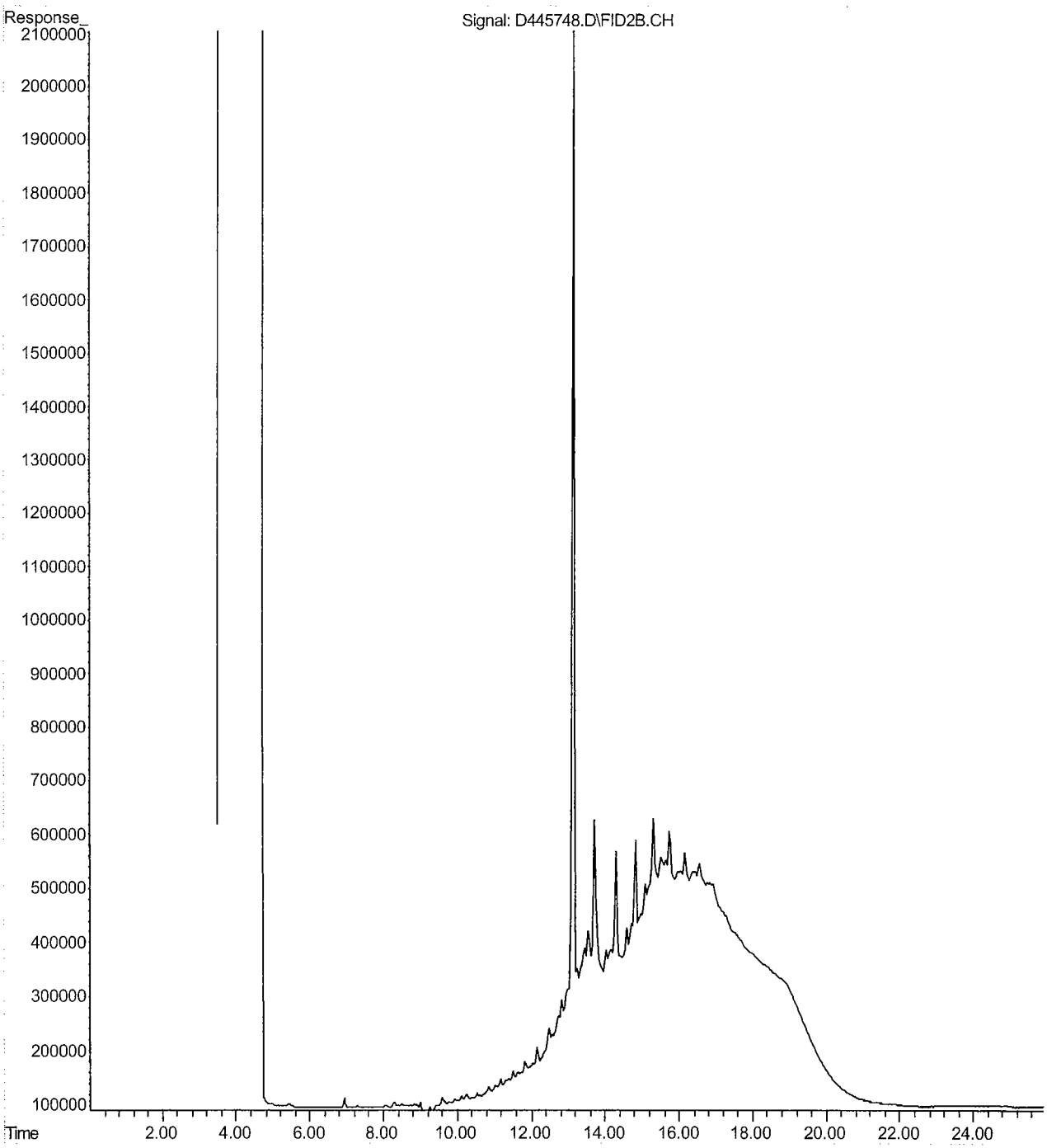
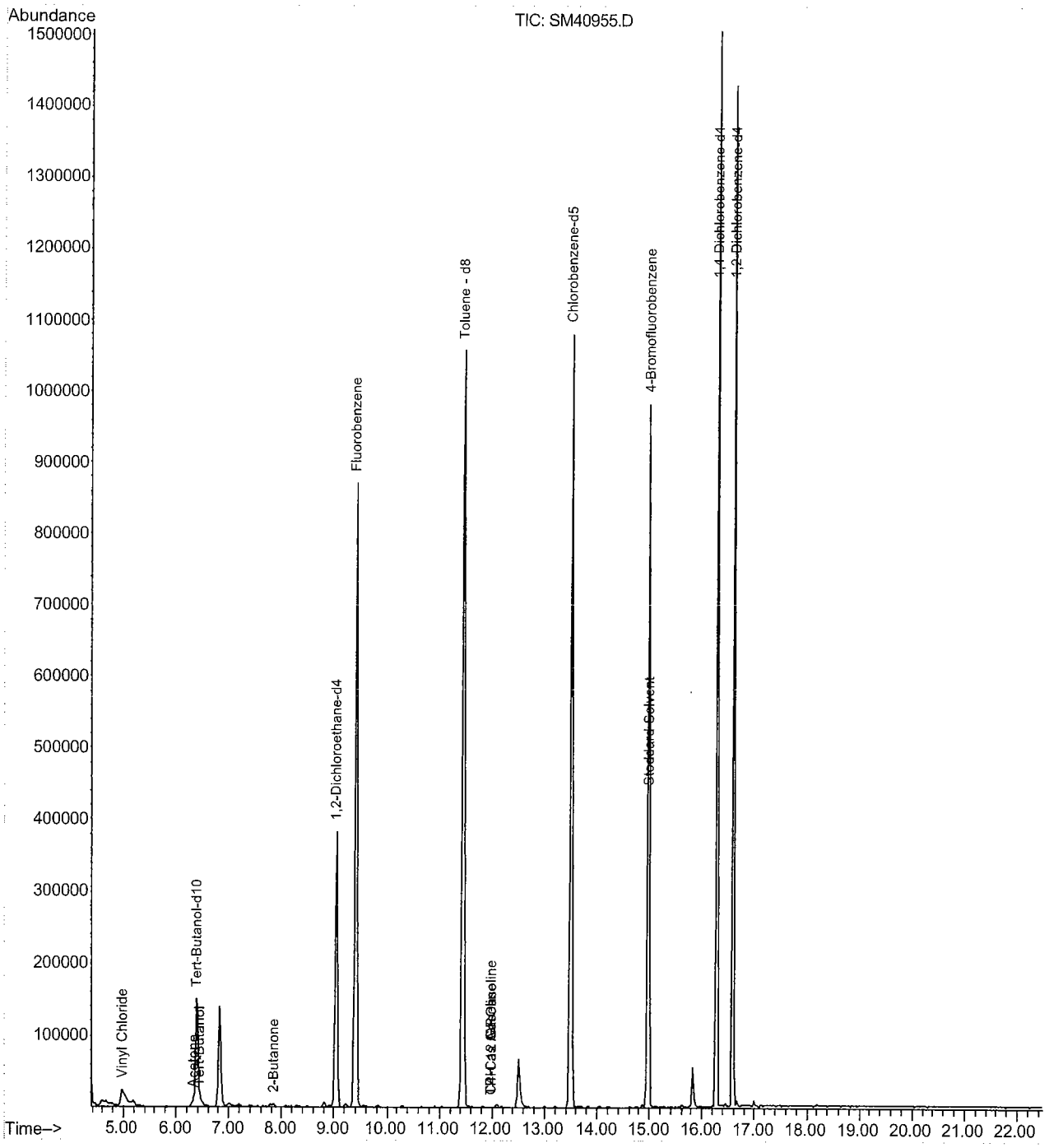
Operator : YML
Acquired : 21 Apr 2007 11:21 am using AcqMethod BOTH.M
Instrument : Diesel #2
Sample Name: 55902-02 g w 1 ;041210|120560
Misc Info :
Vial Number: 90



File : o:\hpchem\SM40955.D
Operator : CNR
Acquired : 14 Apr 2007 3:14 pm using AcqMethod VOA
Instrument : Instrumen
Sample Name: 55902-03-01
Misc Info :
Vial Number: 10



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File        : o:\d_temp\D445505.D
Operator    : DRM
Acquired    : 13 Apr 2007  10:58 pm using AcqMethod BOTH.M
Instrument :   Diesel #2
Sample Name: 55902-03    a w 1 ;041210|118775
Misc Info   :
Vial Number: 100
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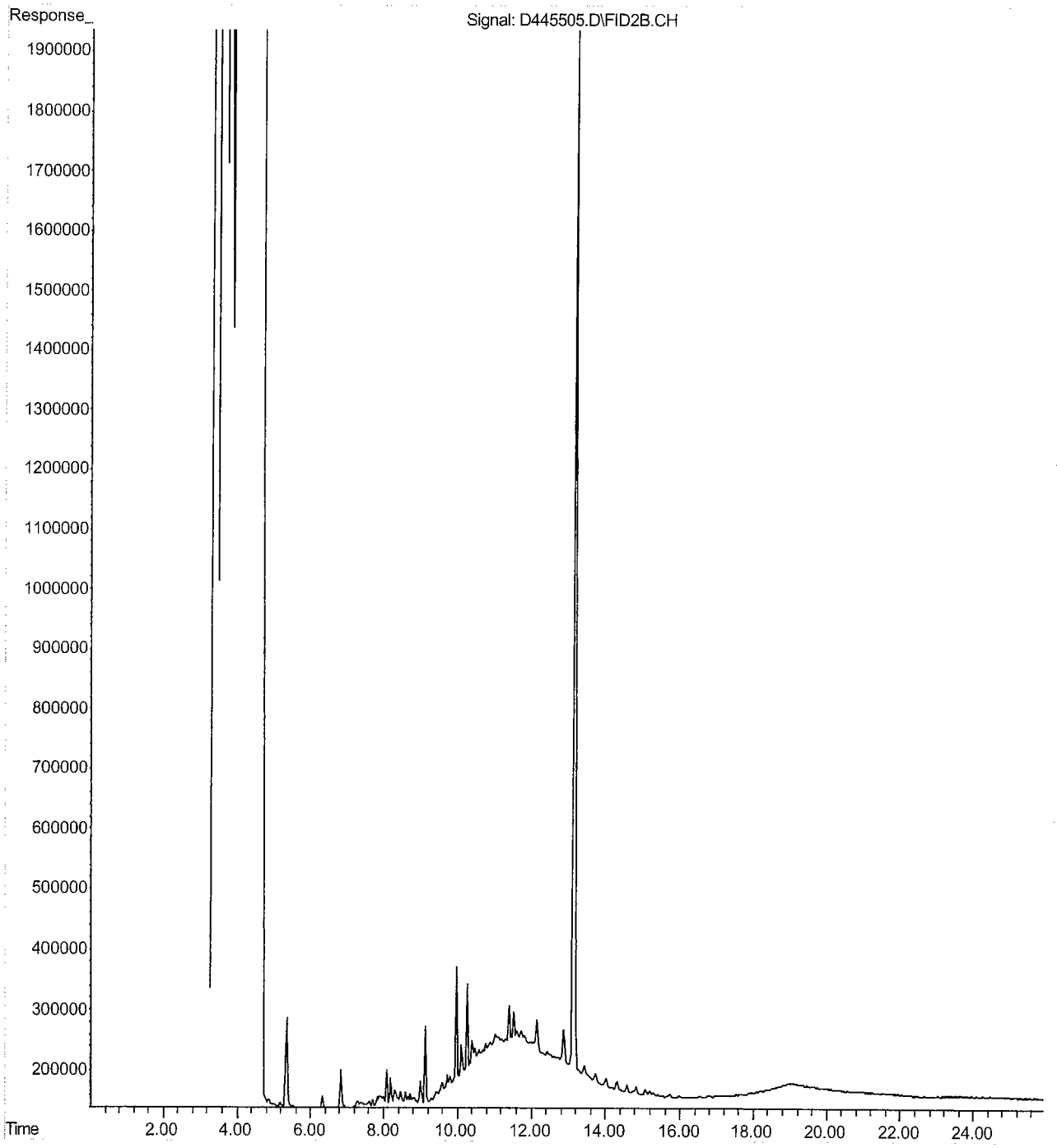
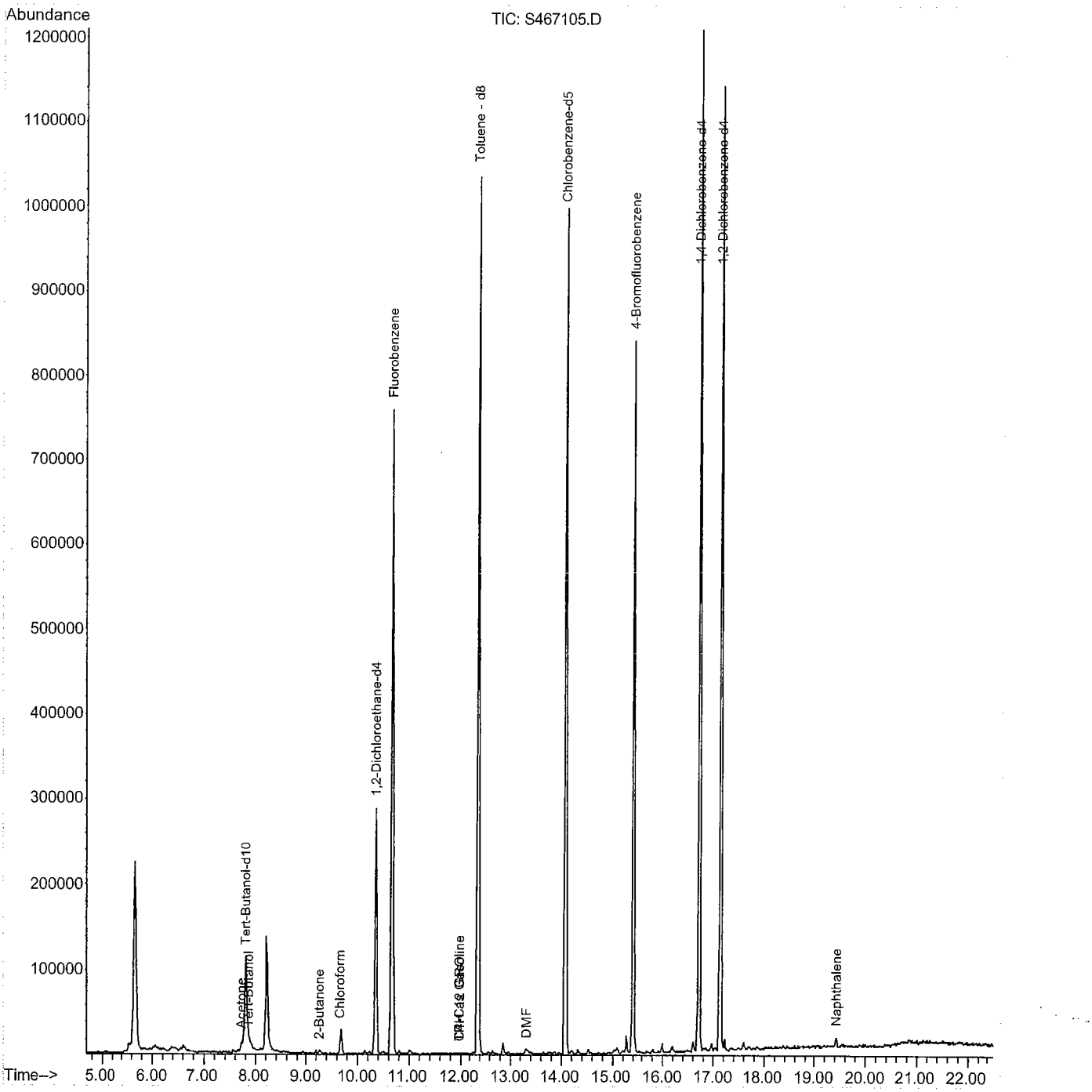
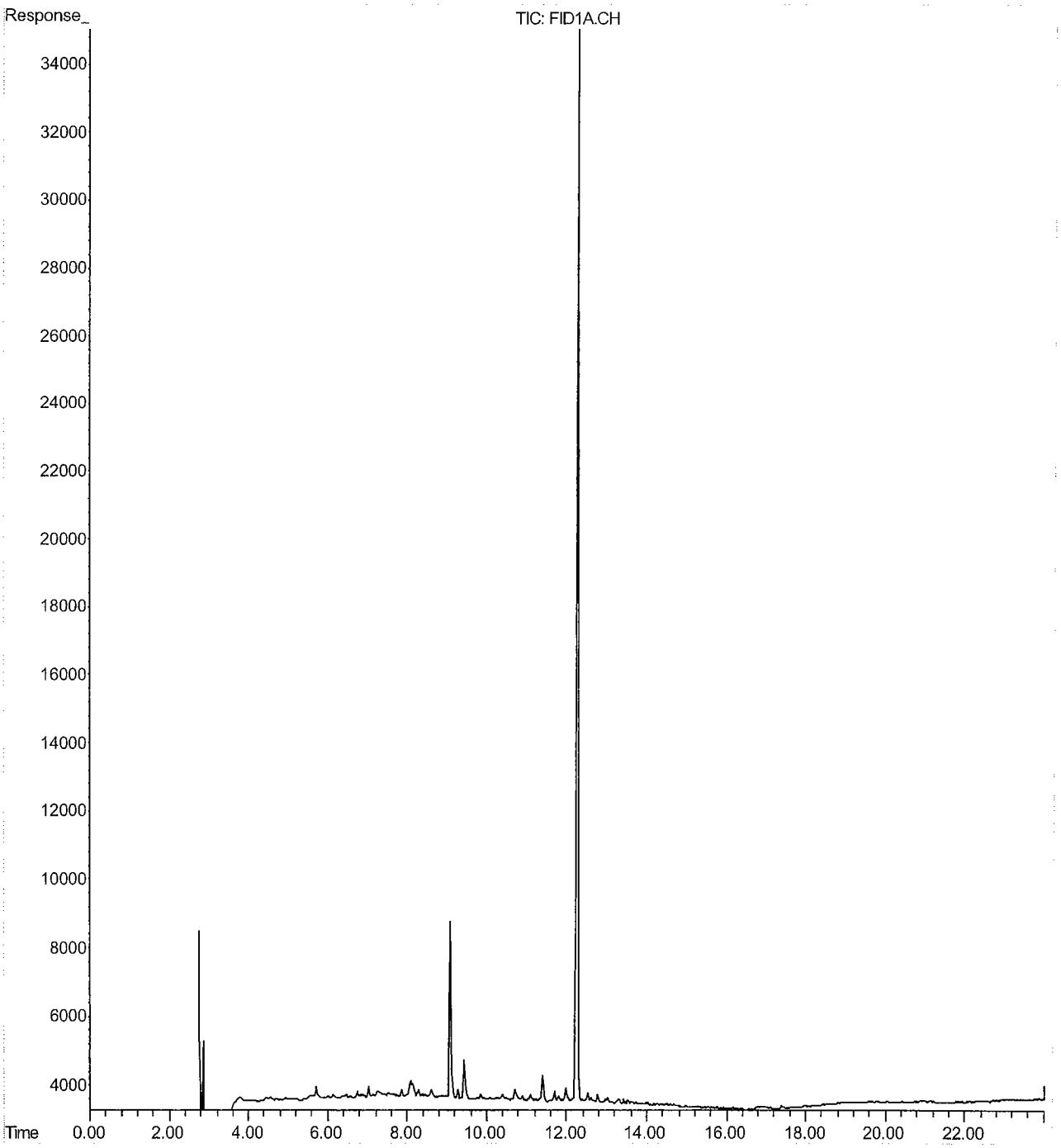


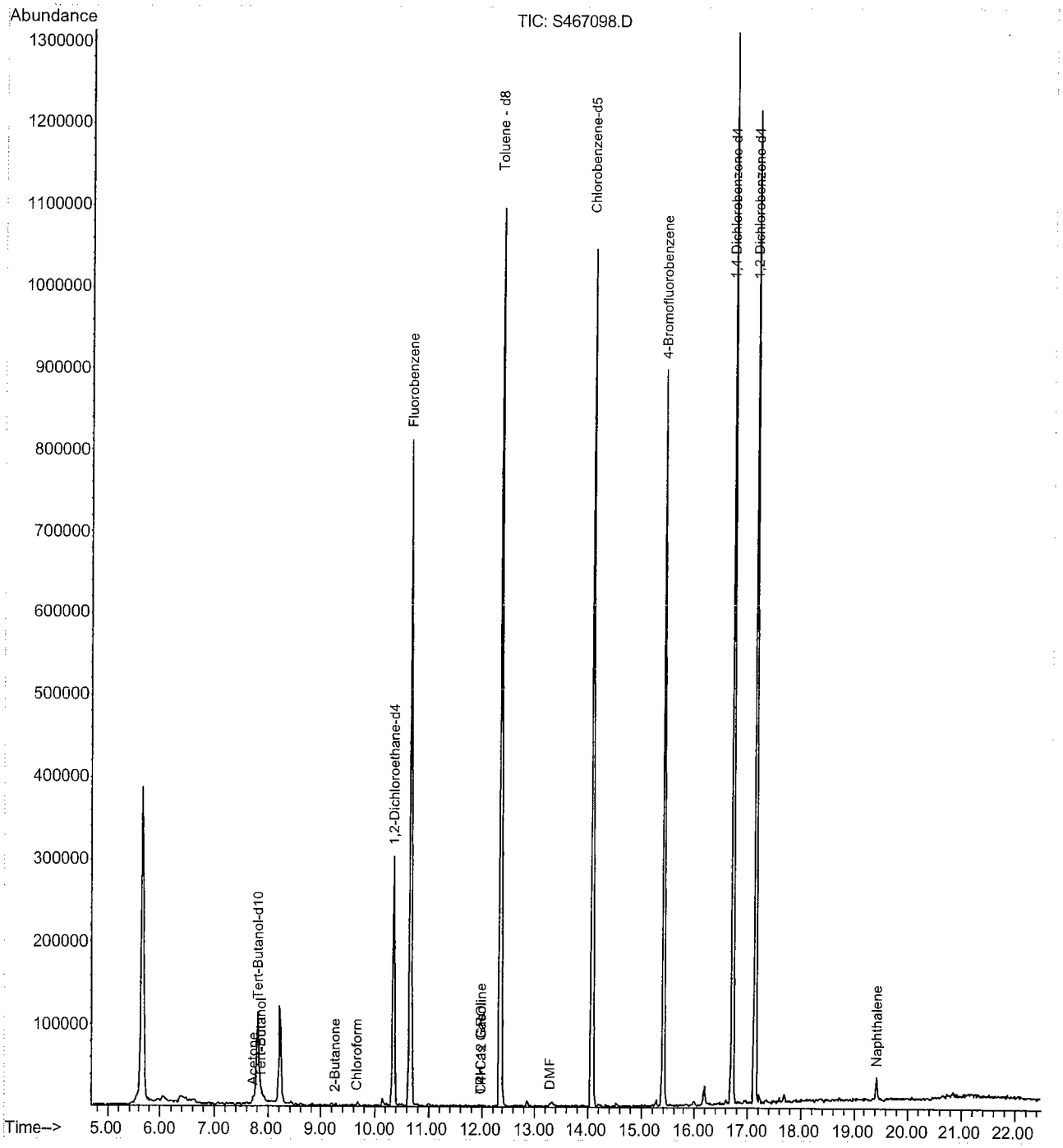
File : o:\hpchem\S467105.D
Operator : CNR
Acquired : 14 Apr 2007 4:33 pm using AcqMethod VOA
Instrument : GCMS4
Sample Name: 55902-04-04
Misc Info :
Vial Number: 15



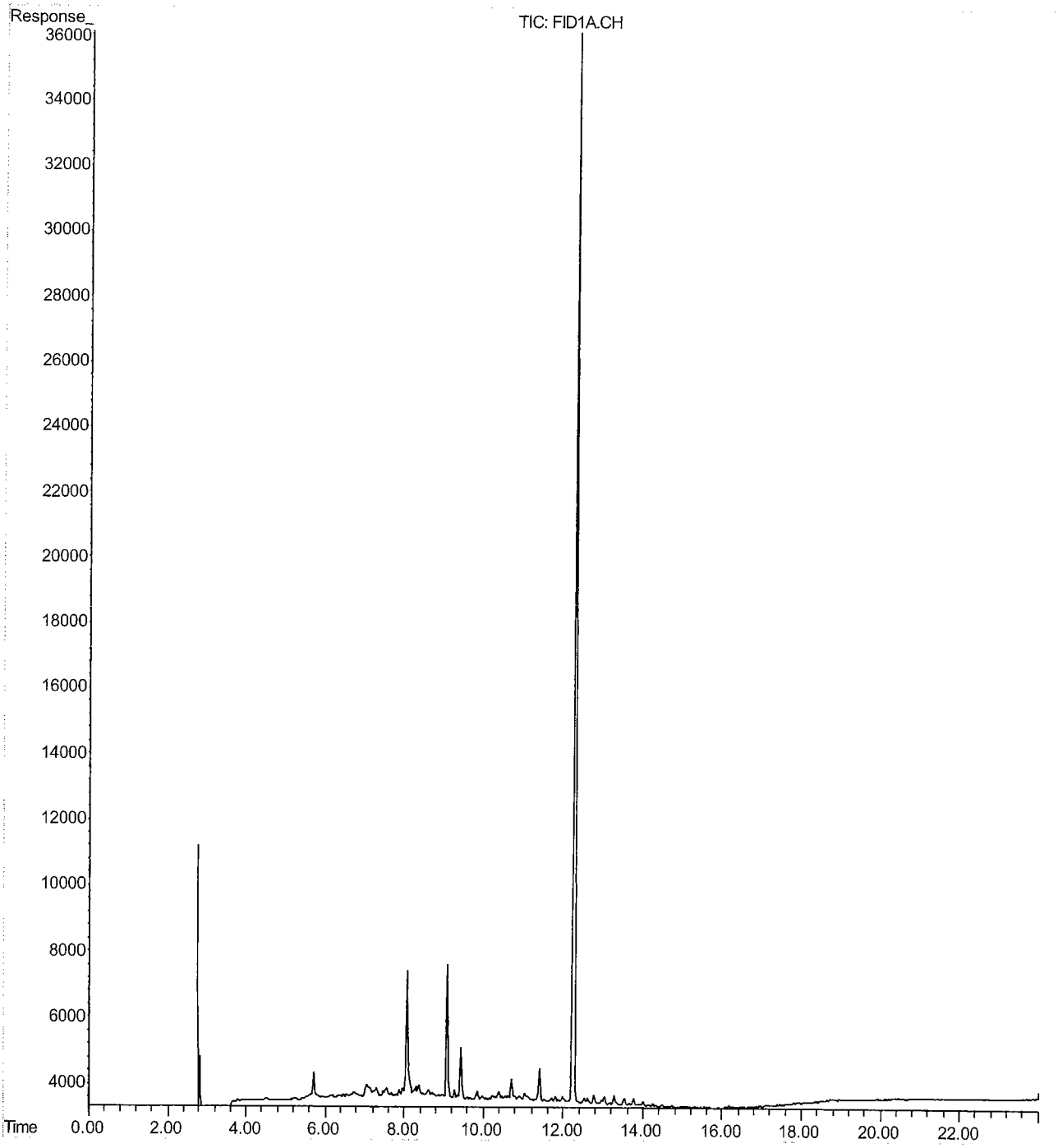
File : o:\d_temp\D269392.D
Operator : DRM
Acquired : 17 Apr 2007 6:40 pm using AcqMethod BOTH.M
Instrument : Diesel 1
Sample Name: 55902-04
Misc Info : HEXANE
Vial Number: 61



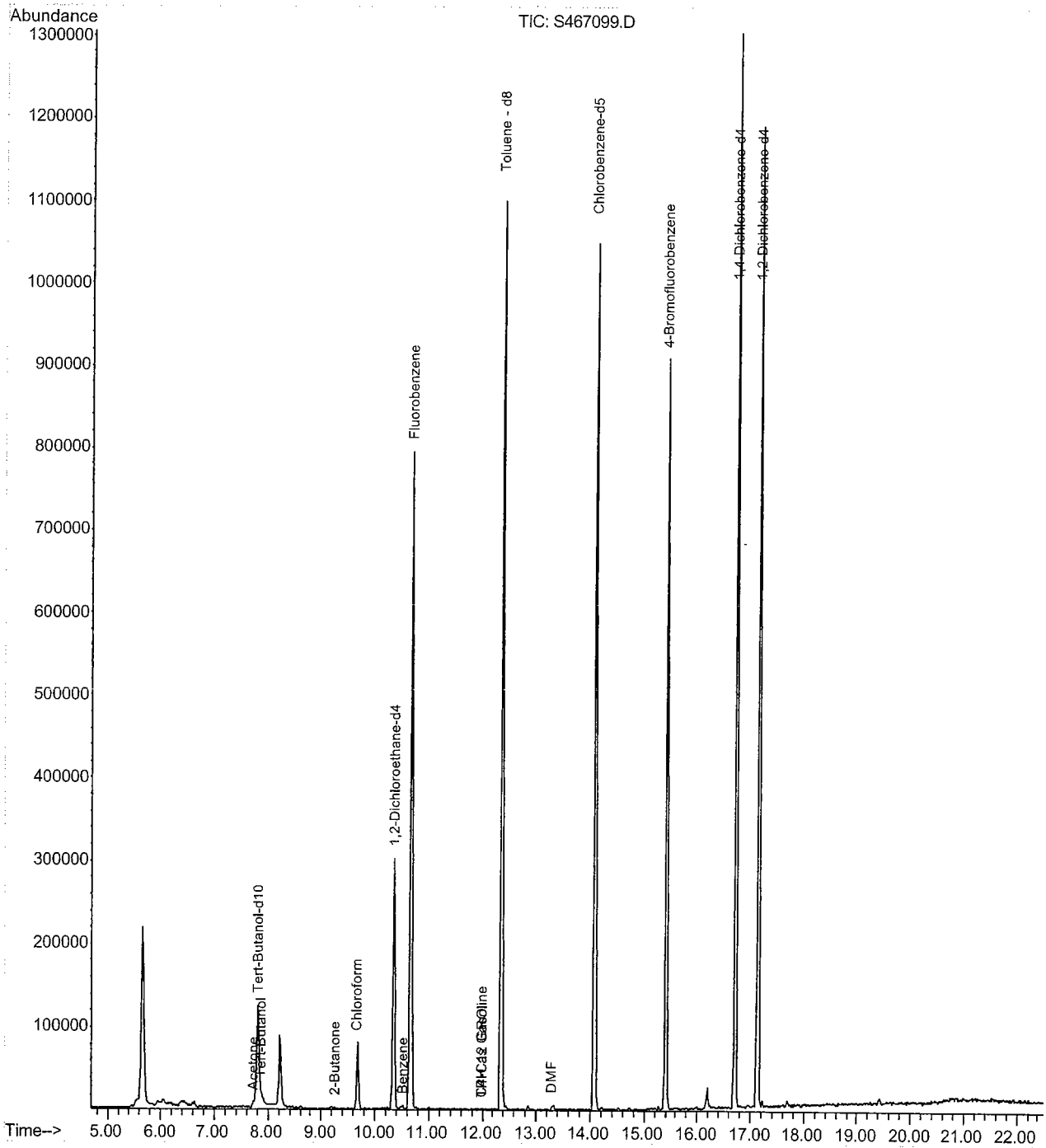
File : o:\hpchem\S467098.D
Operator : CNR
Acquired : 14 Apr 2007 12:30 pm using AcqMethod VOA
Instrument : GCMS4
Sample Name: 55902-05-01
Misc Info :
Vial Number: 8



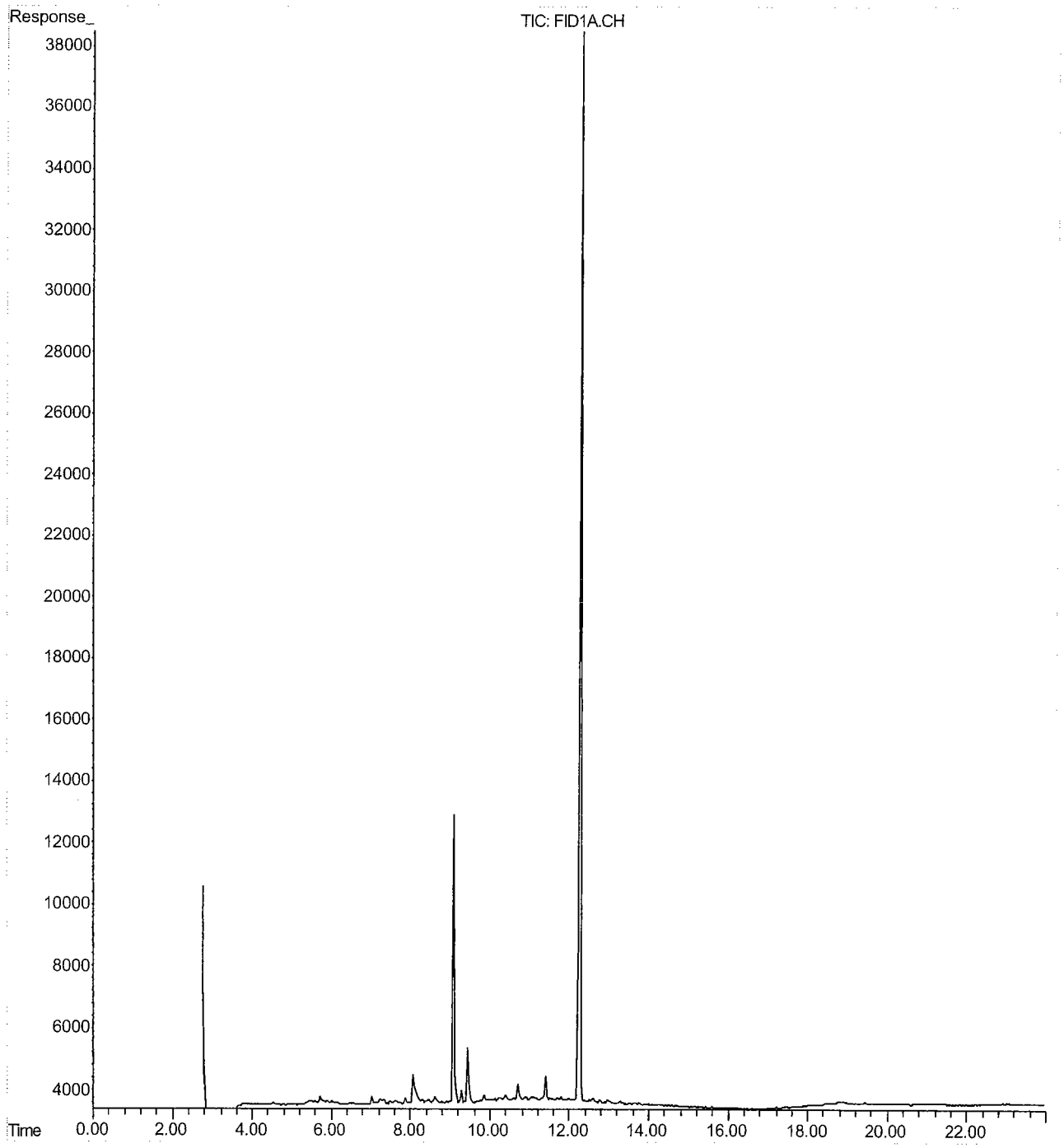
File : o:\d_temp\D269393.D
Operator : DRM
Acquired : 17 Apr 2007 7:16 pm using AcqMethod BOTH.M
Instrument : Diesel 1
Sample Name: 55902-05
Misc Info : HEXANE
Vial Number: 62



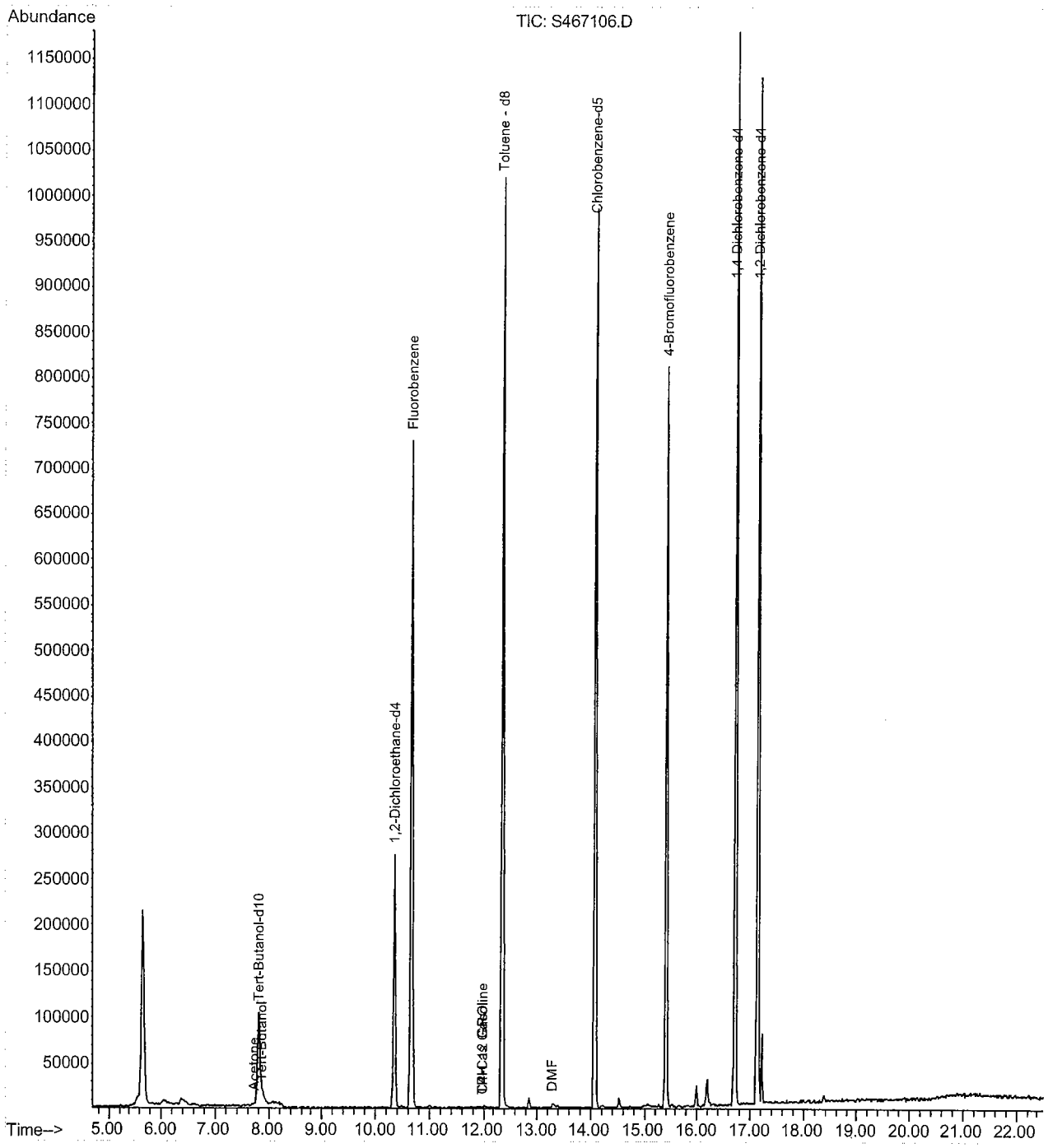
File : o:\hpchem\S467099.D
Operator : CNR
Acquired : 14 Apr 2007 1:04 pm using AcqMethod VOA
Instrument : GCMS4
Sample Name: 55902-06-01
Misc Info :
Vial Number: 9



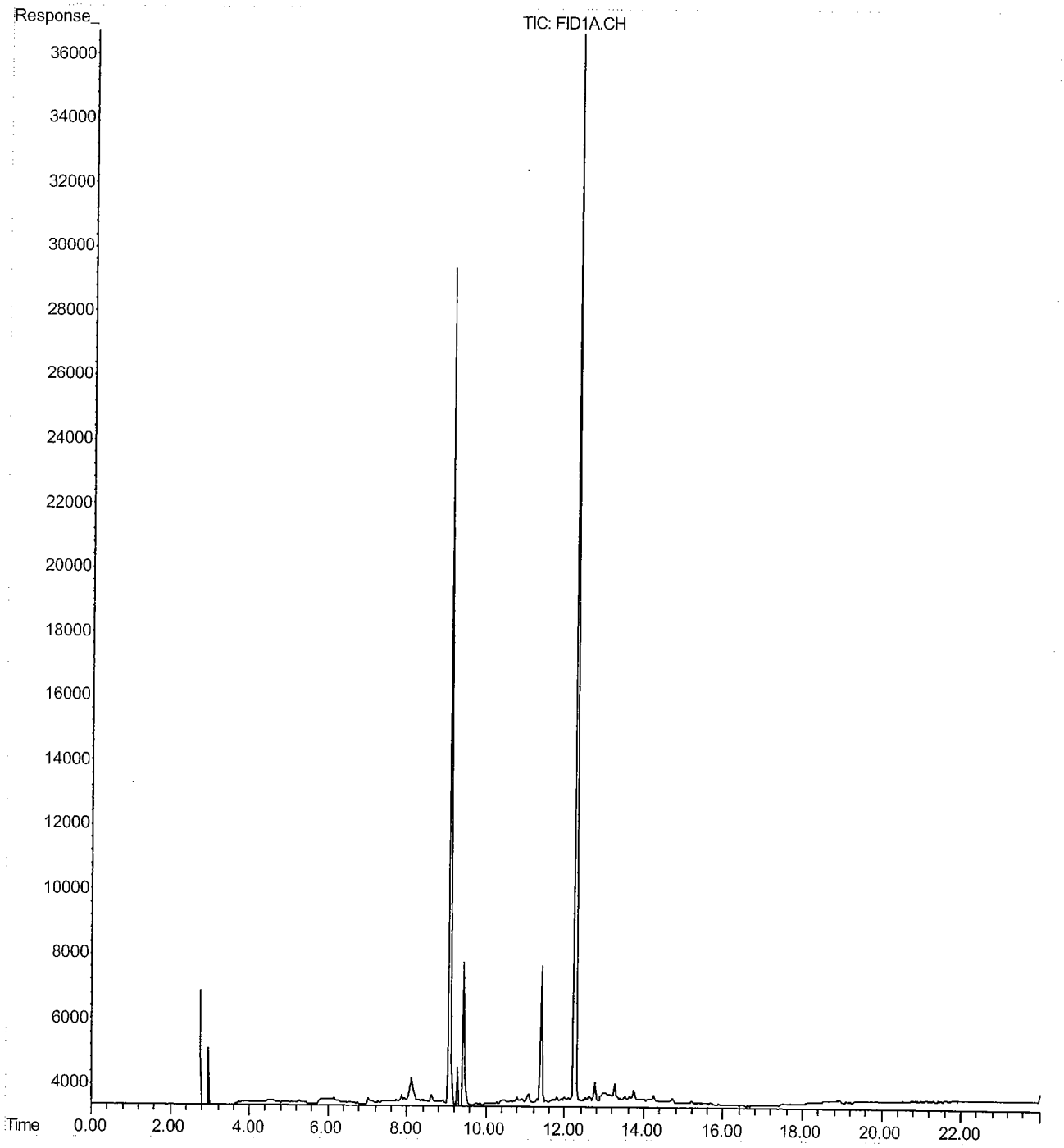
File : o:\d_temp\D269396.D
Operator : DRM
Acquired : 17 Apr 2007 9:03 pm using AcqMethod BOTH.M
Instrument : Diesel 1
Sample Name: 55902-06
Misc Info : HEXANE
Vial Number: 65



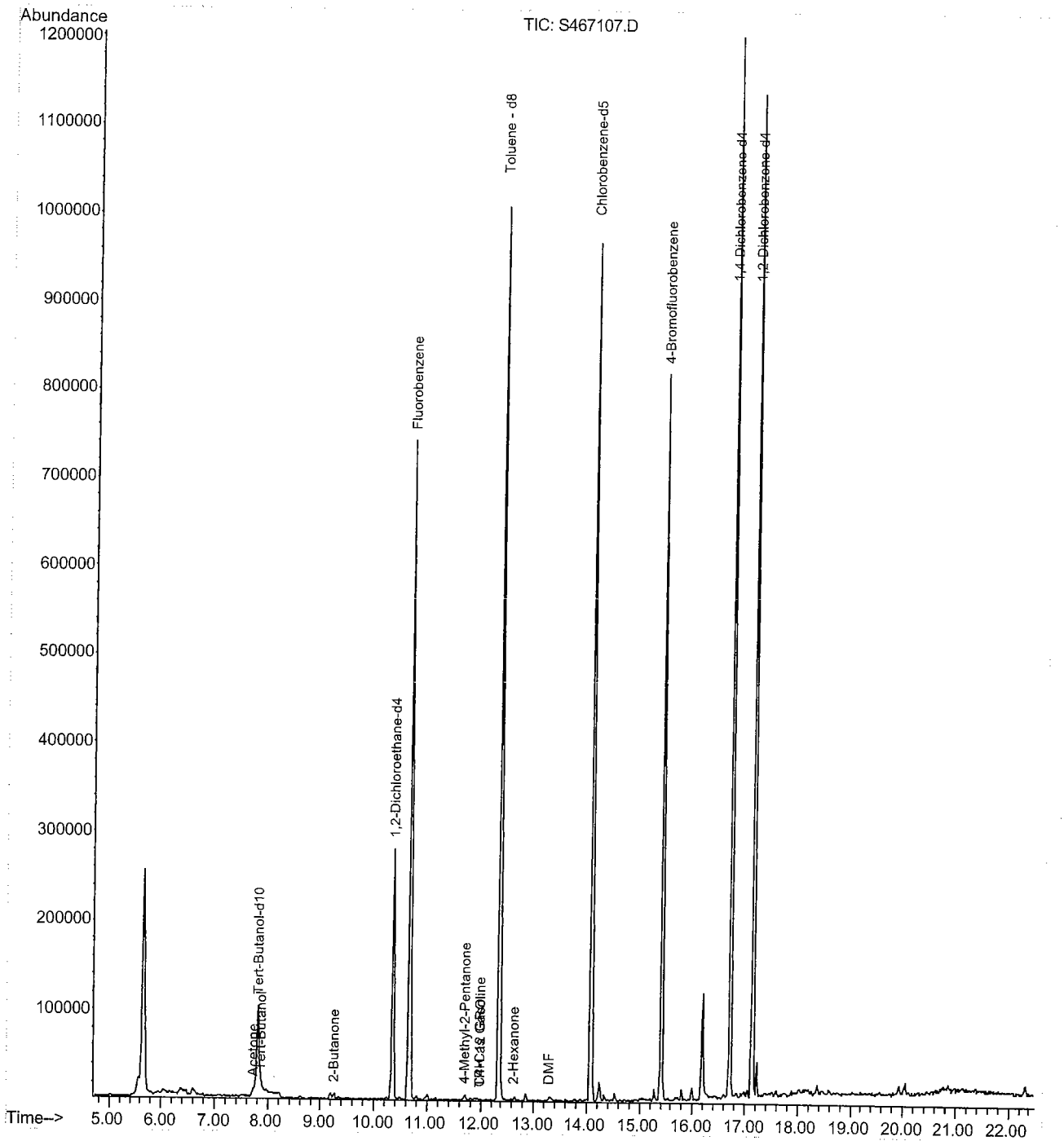
File : o:\hpchem\S467106.D
Operator : CNR
Acquired : 14 Apr 2007 5:08 pm using AcqMethod VOA
Instrument : GCMS4
Sample Name: 55902-07-01
Misc Info :
Vial Number: 16



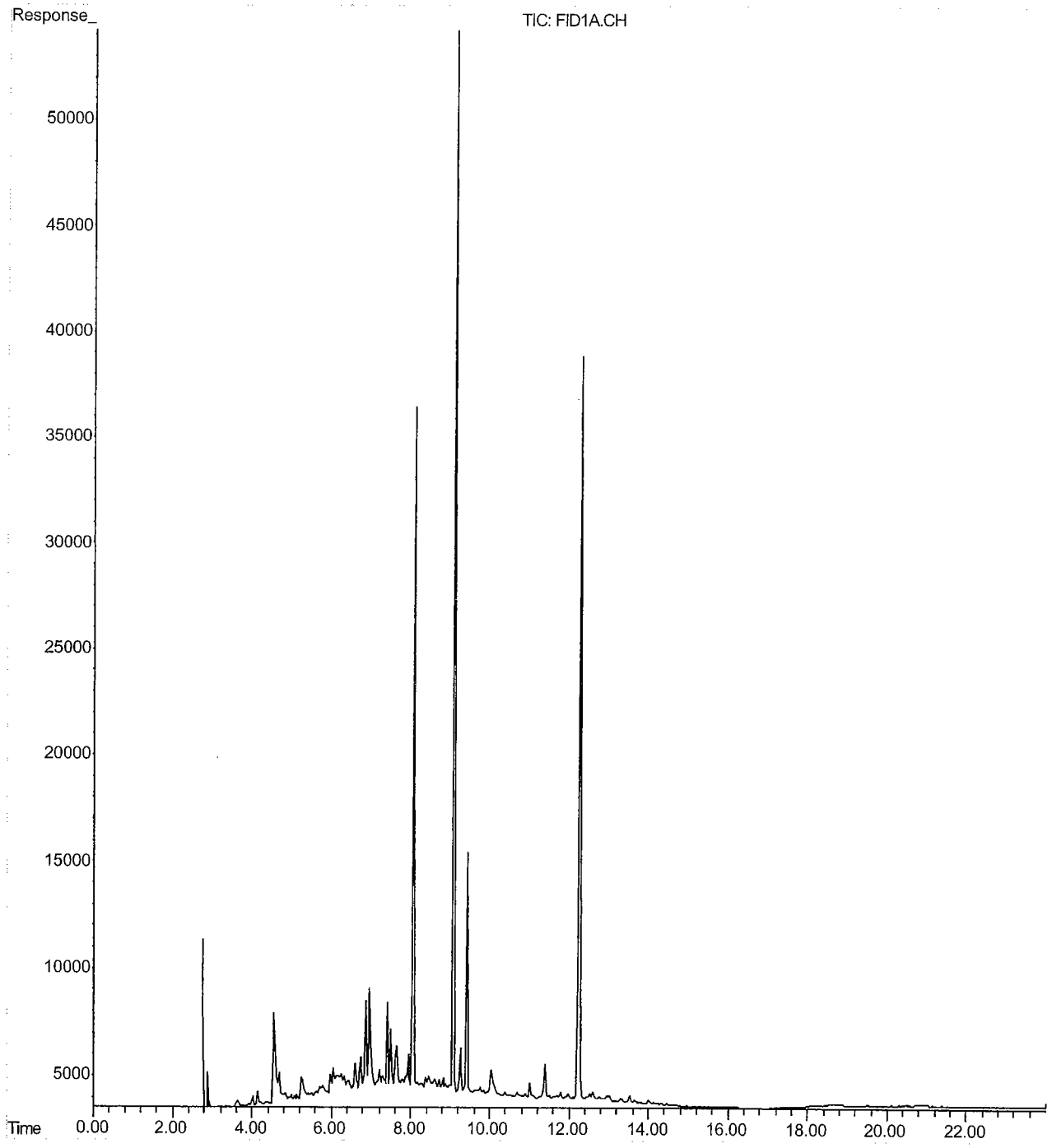
File : o:\d_temp\D269394.D
Operator : DRM
Acquired : 17 Apr 2007 7:52 pm using AcqMethod BOTH.M
Instrument : Diesel 1
Sample Name: 55902-07
Misc Info : HEXANE
Vial Number: 63



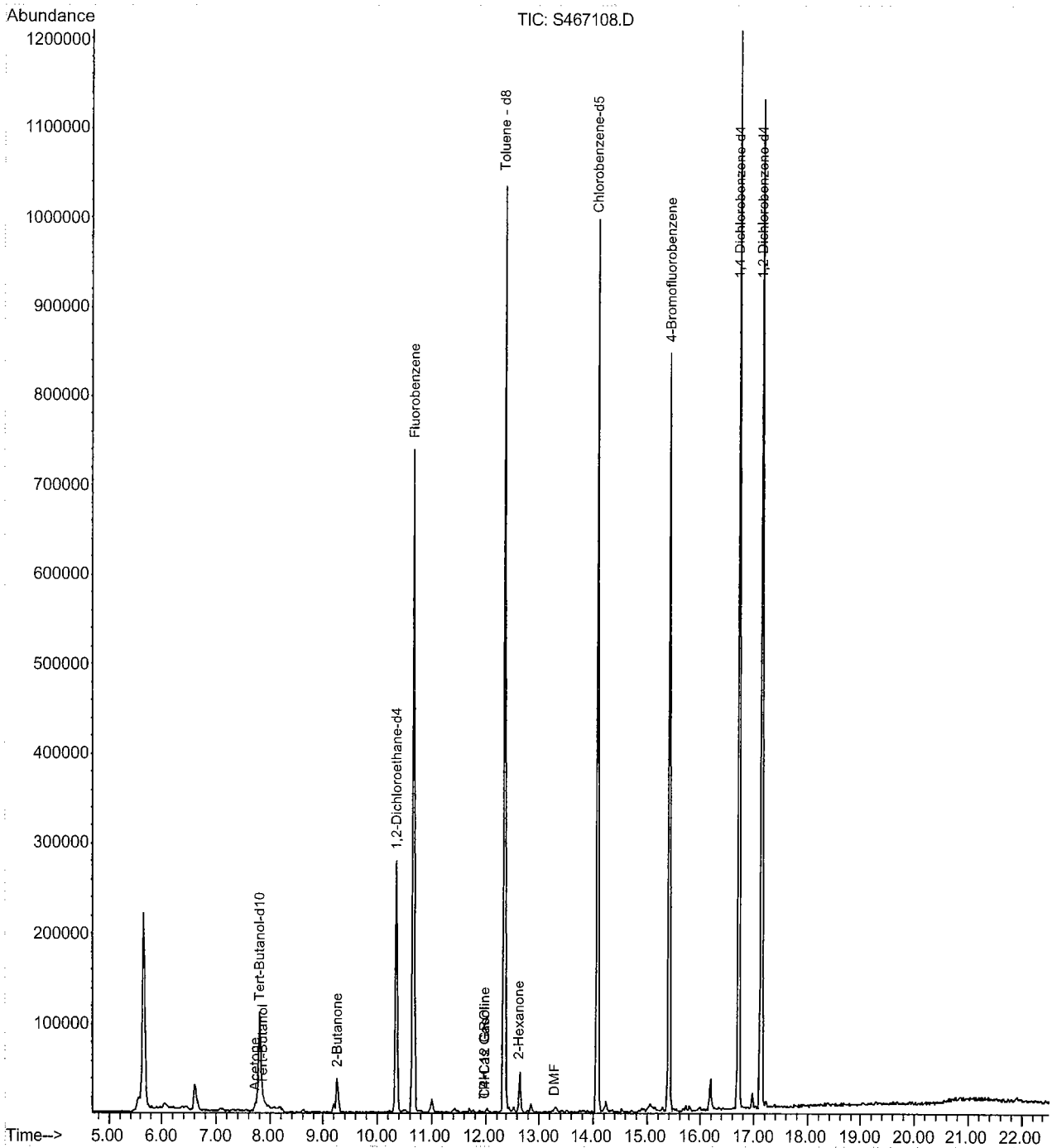
File : o:\hpchem\S467107.D
Operator : CNR
Acquired : 14 Apr 2007 5:43 pm using AcqMethod VOA
Instrument : GCMS4
Sample Name: 55902-08-01
Misc Info :
Vial Number: 17



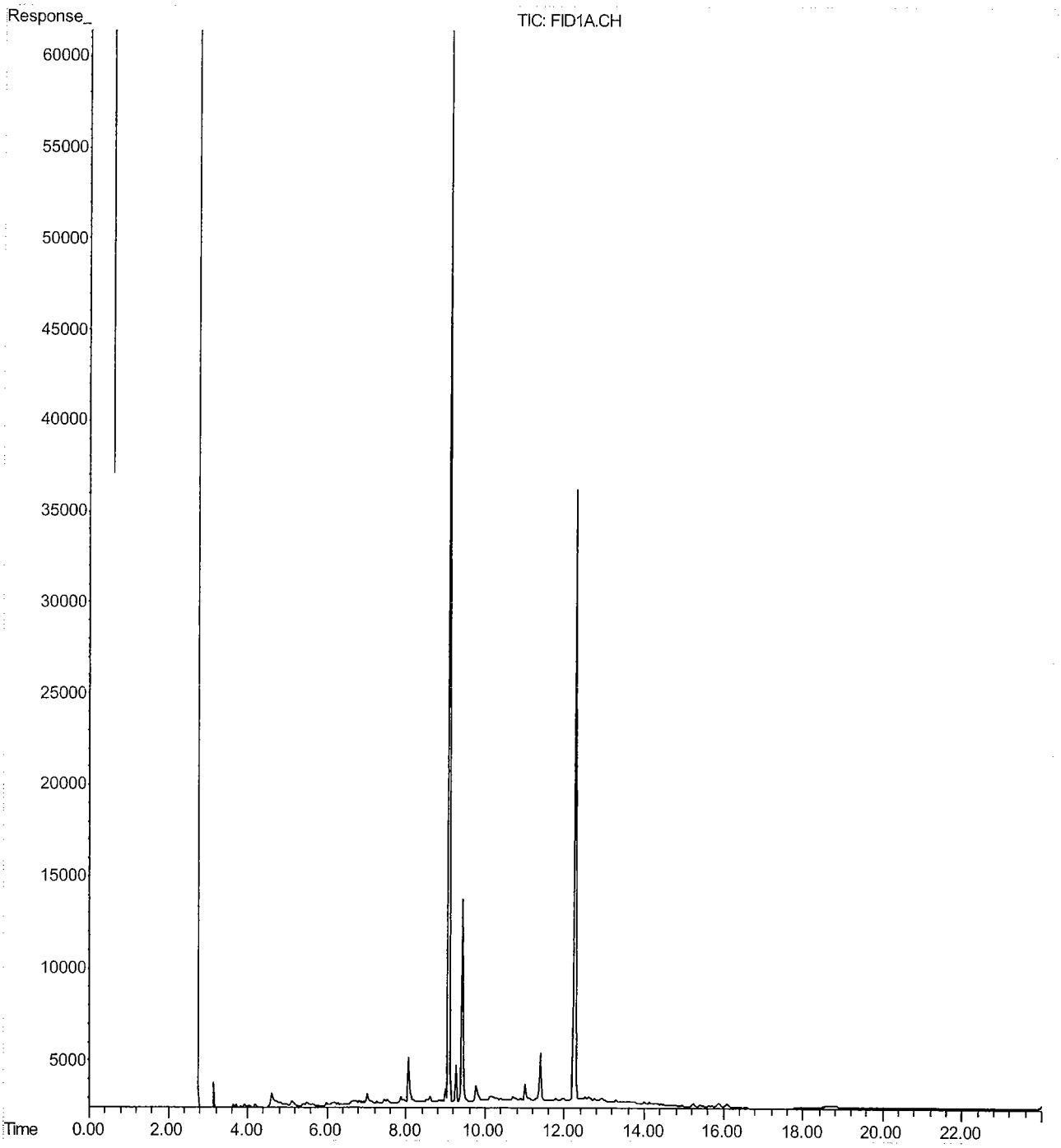
File : o:\d_temp\D269395.D
Operator : DRM
Acquired : 17 Apr 2007 8:28 pm using AcqMethod BOTH.M
Instrument : Diesel 1
Sample Name: 55902-08
Misc Info : HEXANE
Vial Number: 64



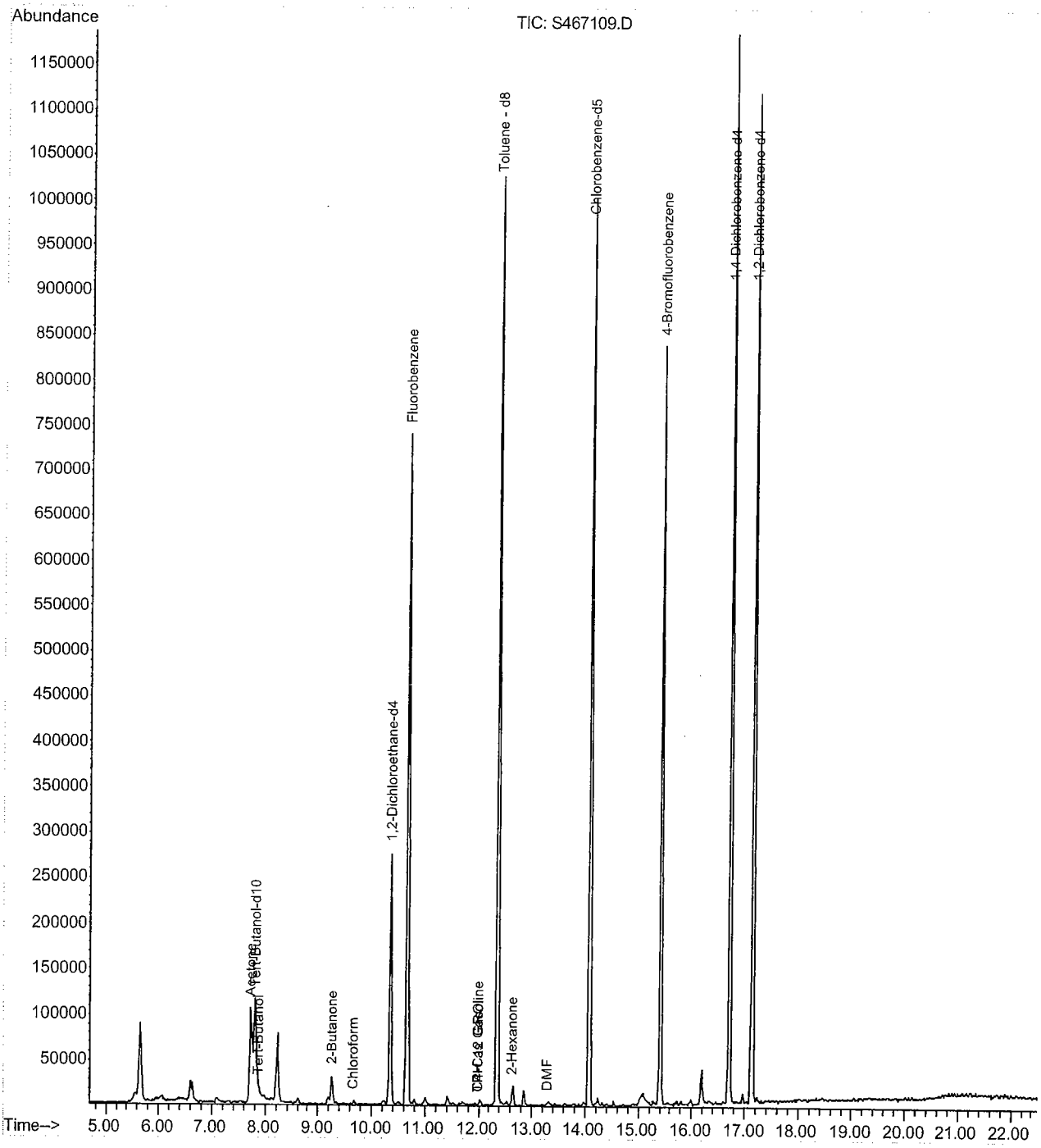
File : o:\hpchem\S467108.D
Operator : CNR
Acquired : 14 Apr 2007 6:17 pm using AcqMethod VOA
Instrument : GCMS4
Sample Name: 55902-09-01
Misc Info :
Vial Number: 18



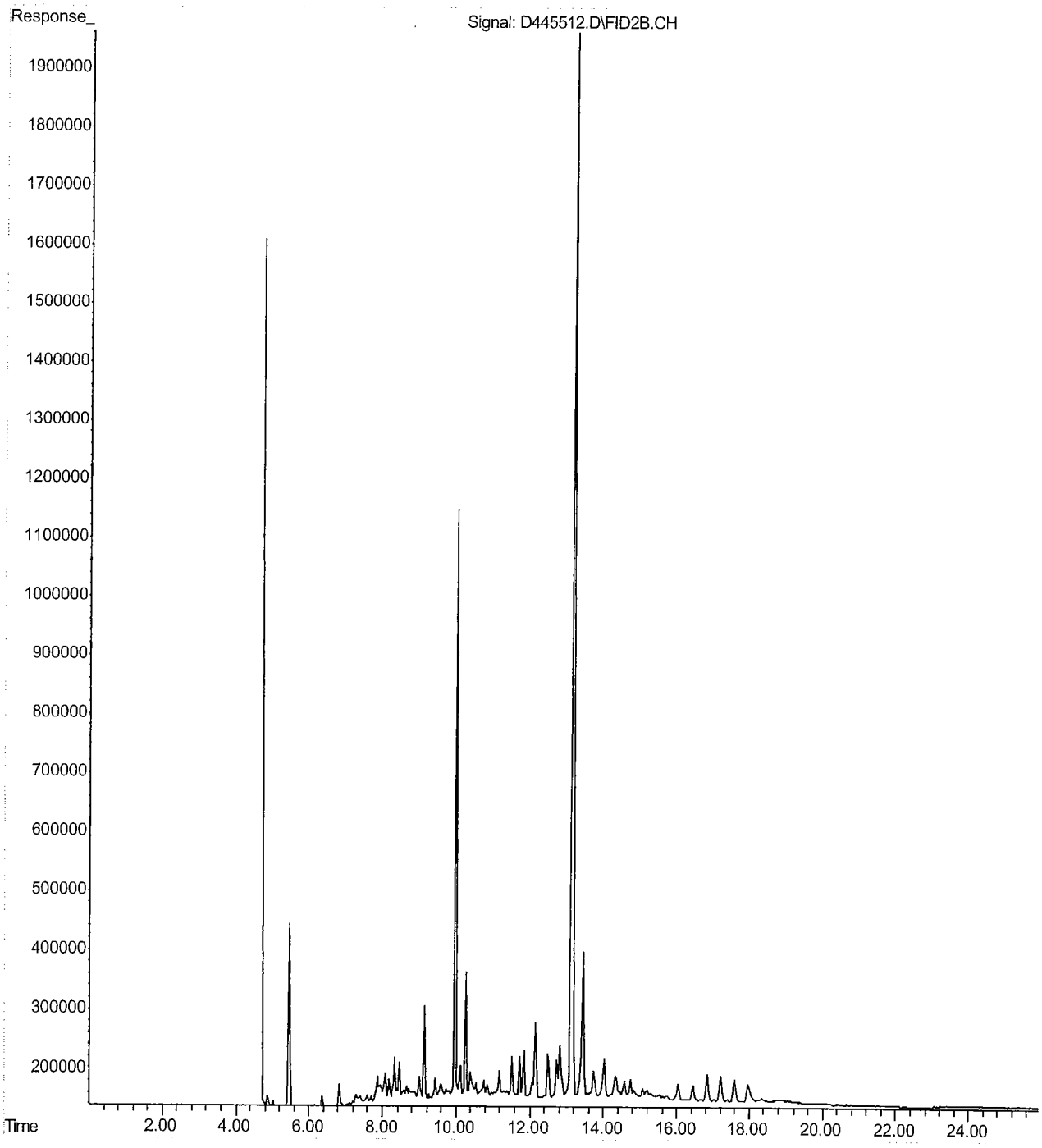
File : o:\d_temp\D269443.D
Operator : YML
Acquired : 19 Apr 2007 12:52 am using AcqMethod BOTH.M
Instrument : Diesel 1
Sample Name: 55902-09
Misc Info : 55902-09 a w 1 ;041601|119306
Vial Number: 61



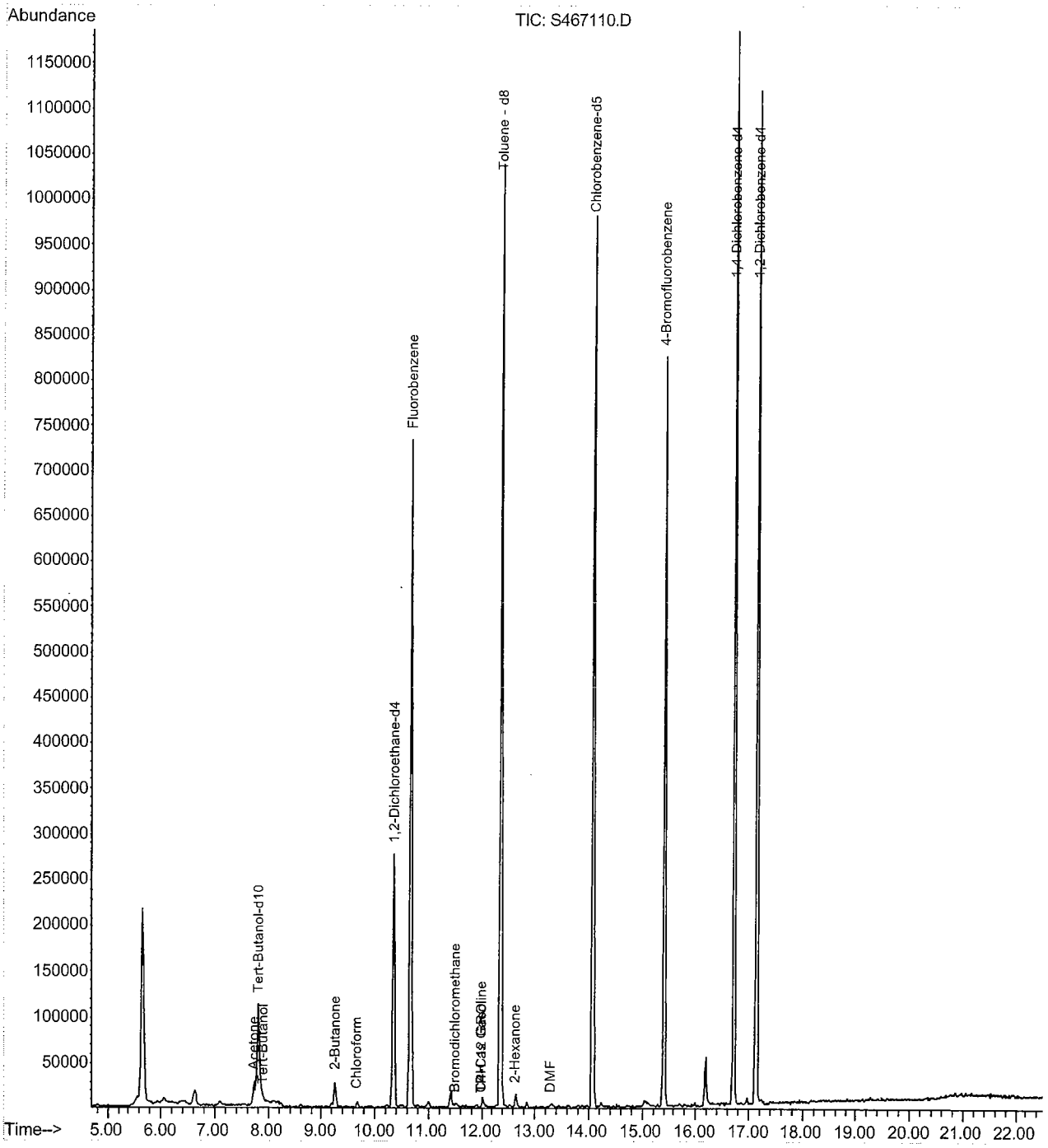
File : o:\hpchem\S467109.D
Operator : CNR
Acquired : 14 Apr 2007 6:52 pm using AcqMethod VOA
Instrument : GCMS4
Sample Name: 55902-10-01
Misc Info :
Vial Number: 19



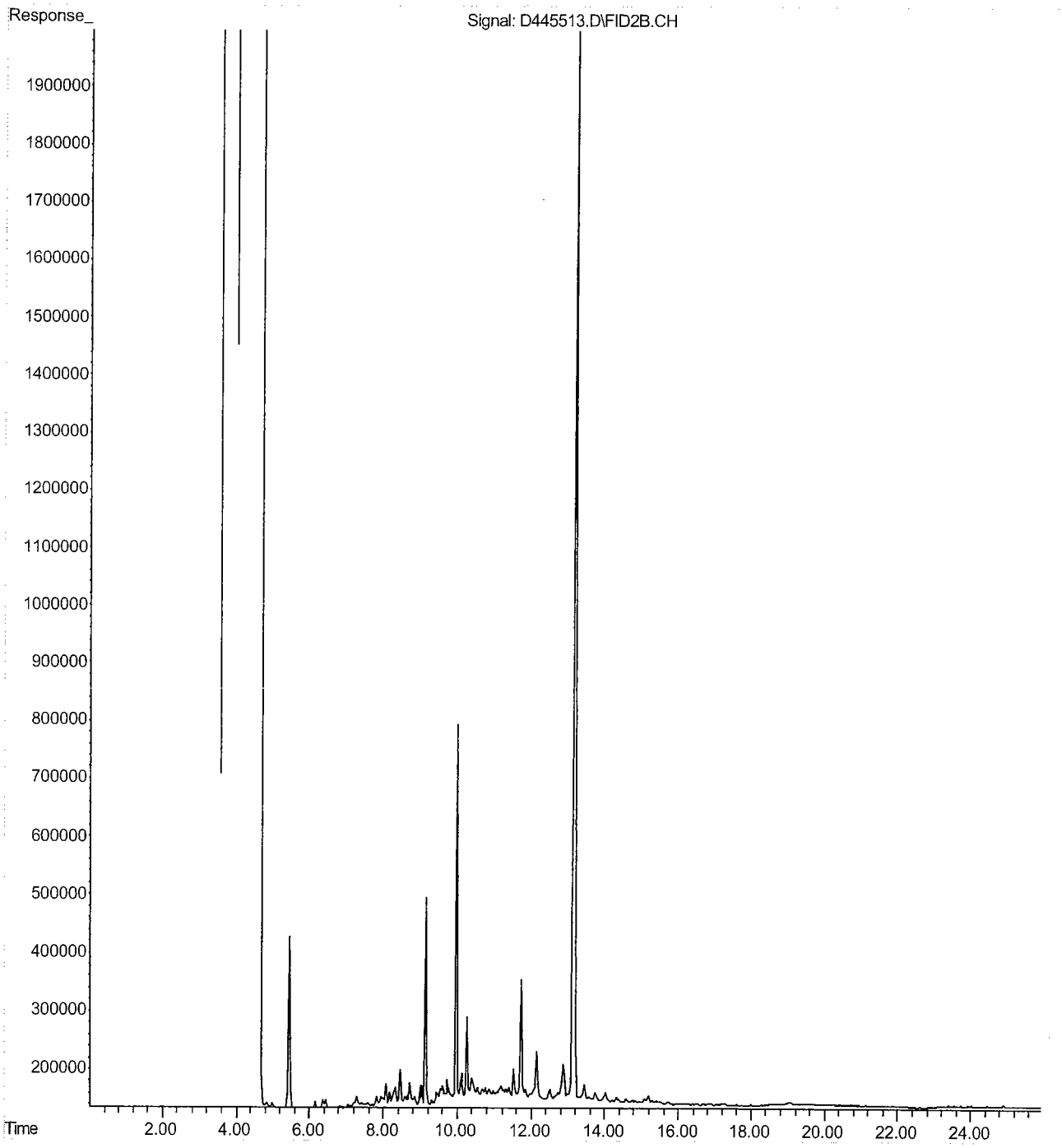
File : o:\d_temp\D445512.D
Operator : DRM
Acquired : 14 Apr 2007 3:09 am using AcqMethod BOTH.M
Instrument : Diesel #2
Sample Name: 55902-10 a w 1 ;041210|118789
Misc Info :
Vial Number: 57



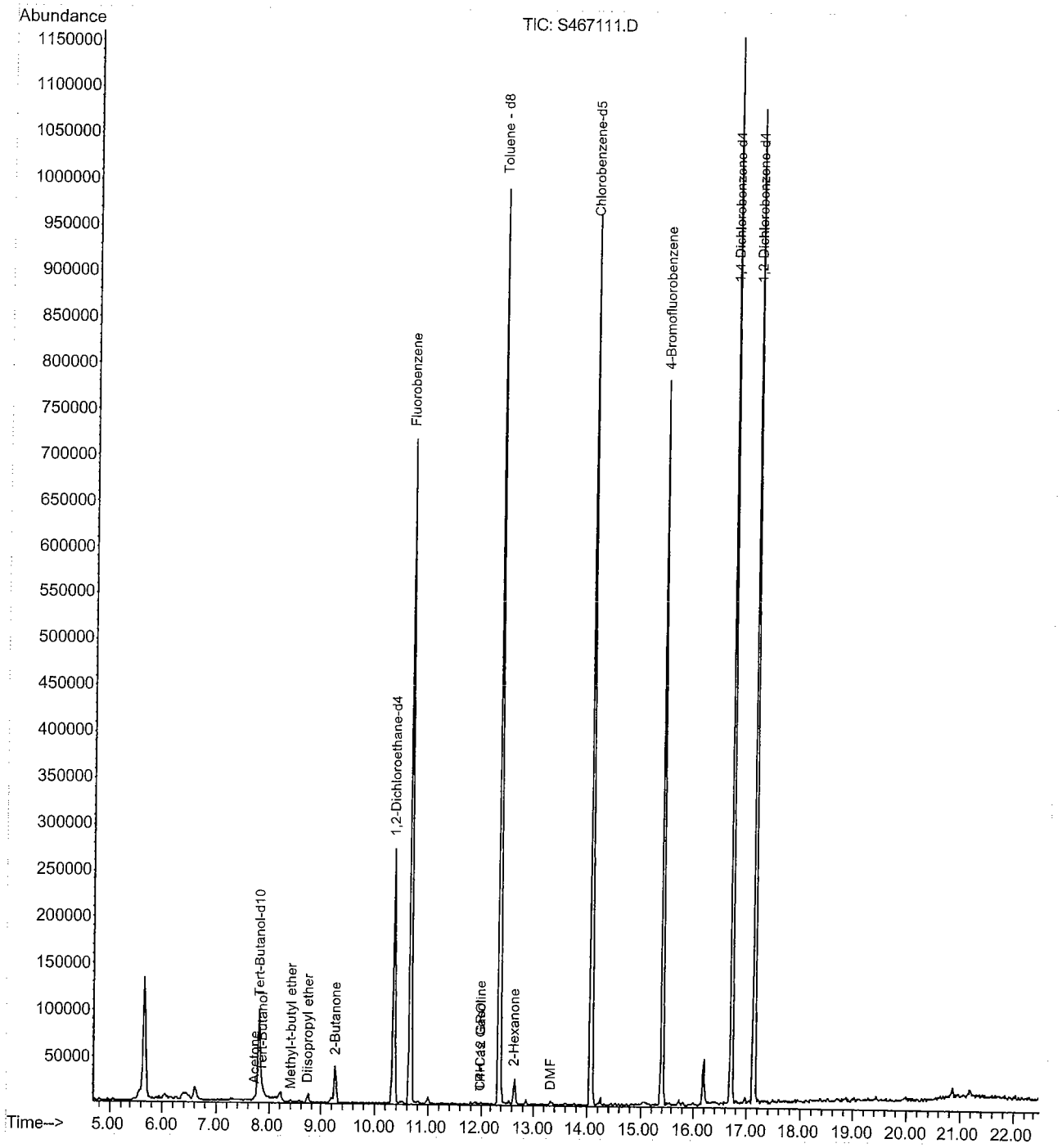
File : o:\hpchem\S467110.D
Operator : CNR
Acquired : 14 Apr 2007 7:27 pm using AcqMethod VOA
Instrument : GCMS4
Sample Name: 55902-11-01
Misc Info :
Vial Number: 20



```
File        : o:\d_temp\D445513.D
Operator    : DRM
Acquired    : 14 Apr 2007    3:45 am using AcqMethod BOTH.M
Instrument :   Diesel #2
Sample Name: 55902-11    a w 1 ;041210|118791
Misc Info   :
Vial Number: 58
```



File : o:\hpchem\S467111.D
Operator : CNR
Acquired : 14 Apr 2007 8:02 pm using AcqMethod VOA
Instrument : GCMS4
Sample Name: 55902-12-01
Misc Info :
Vial Number: 21



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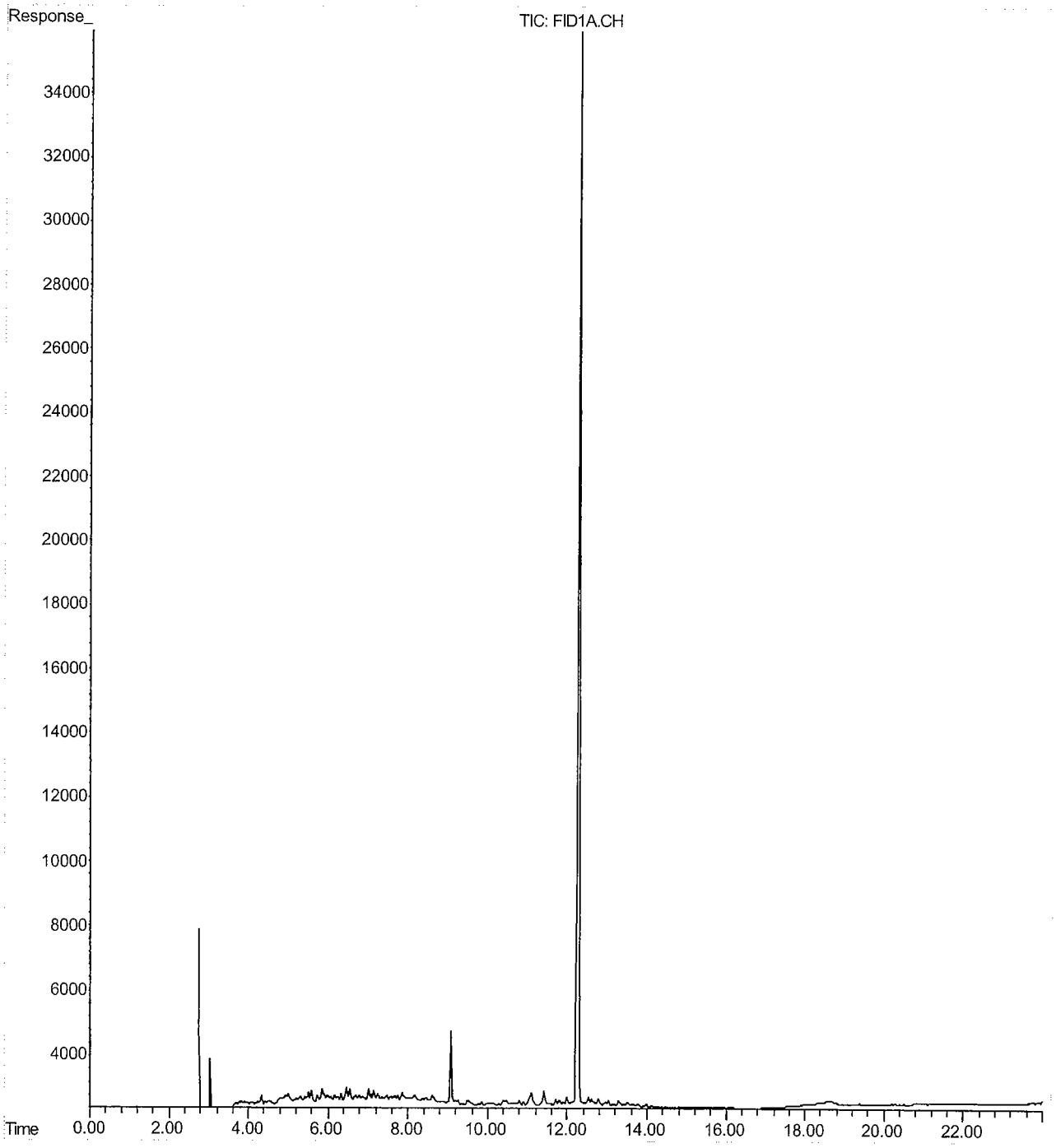
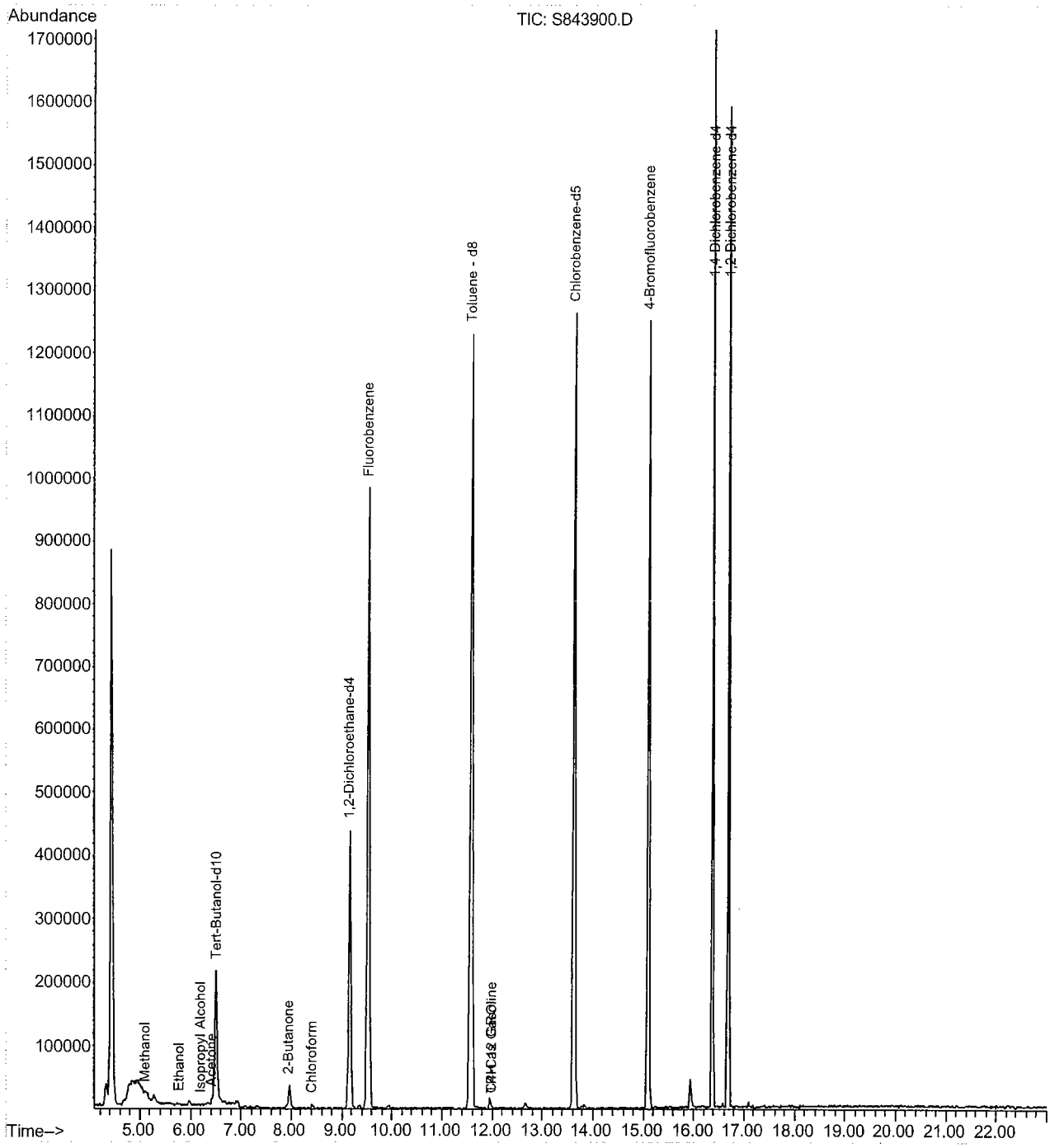
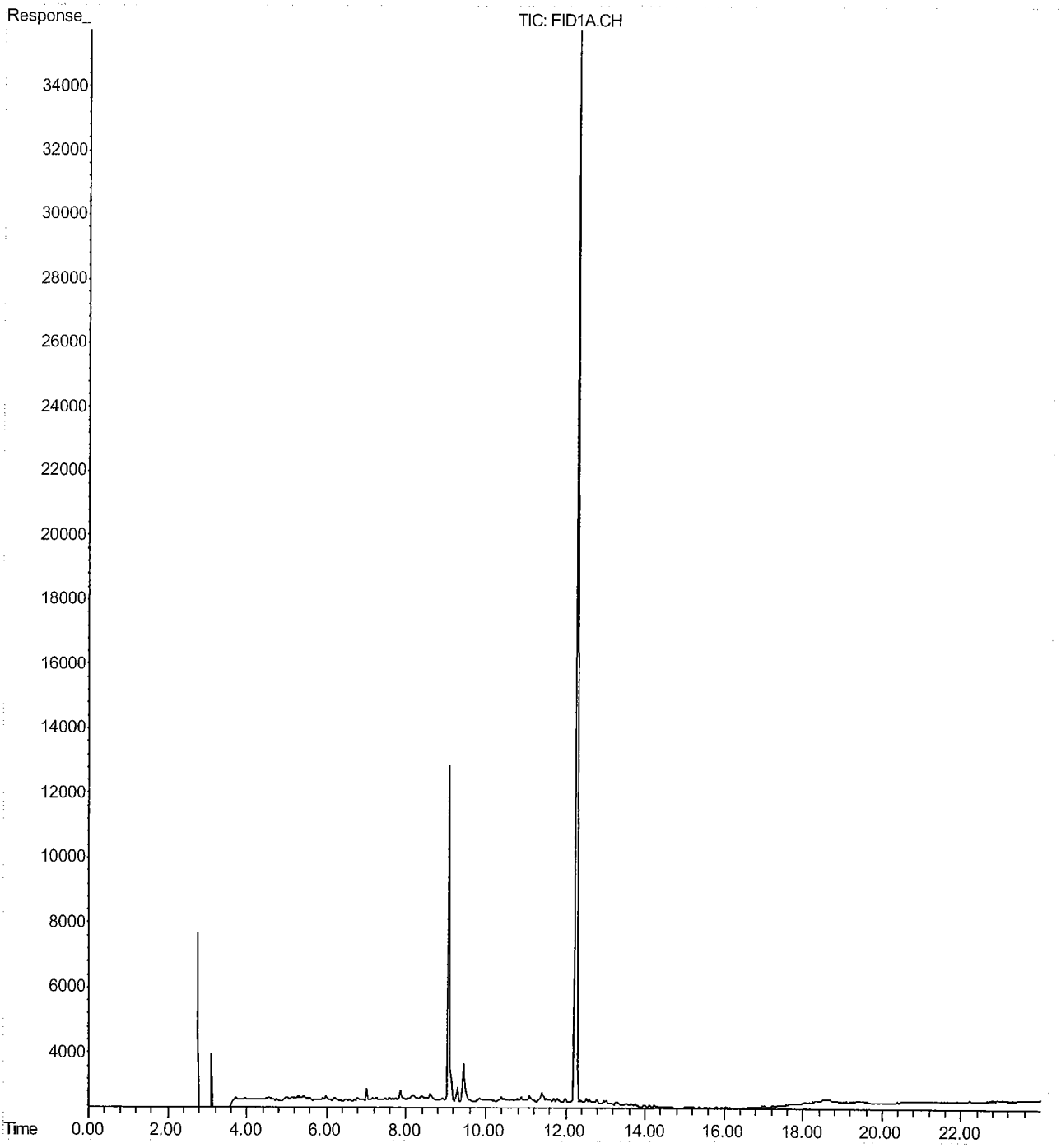
File         : o:\d_temp\D269447.D
Operator     : YML
Acquired     : 19 Apr 2007    3:12 am using AcqMethod BOTH.M
Instrument :   Diesel 1
Sample Name: 55902-12
Misc Info    : 55902-12    a w 1 ;041601|119310
Vial Number: 65
```



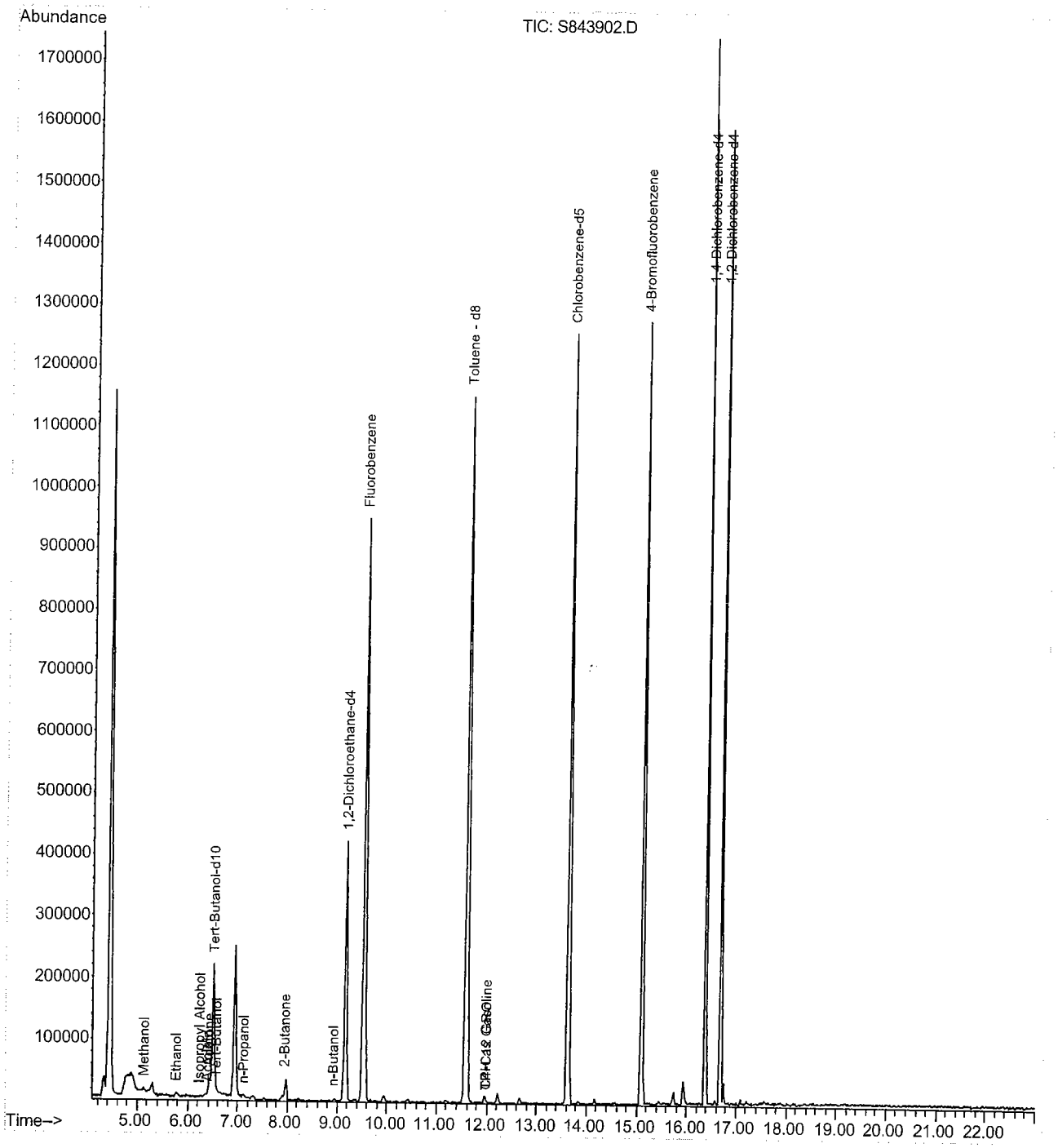
File : o:\hpchem\S843900.D
Operator : CNR
Acquired : 14 Apr 2007 2:35 pm using AcqMethod VOA
Instrument : Instrumen
Sample Name: 55902-13-01
Misc Info :
Vial Number: 10



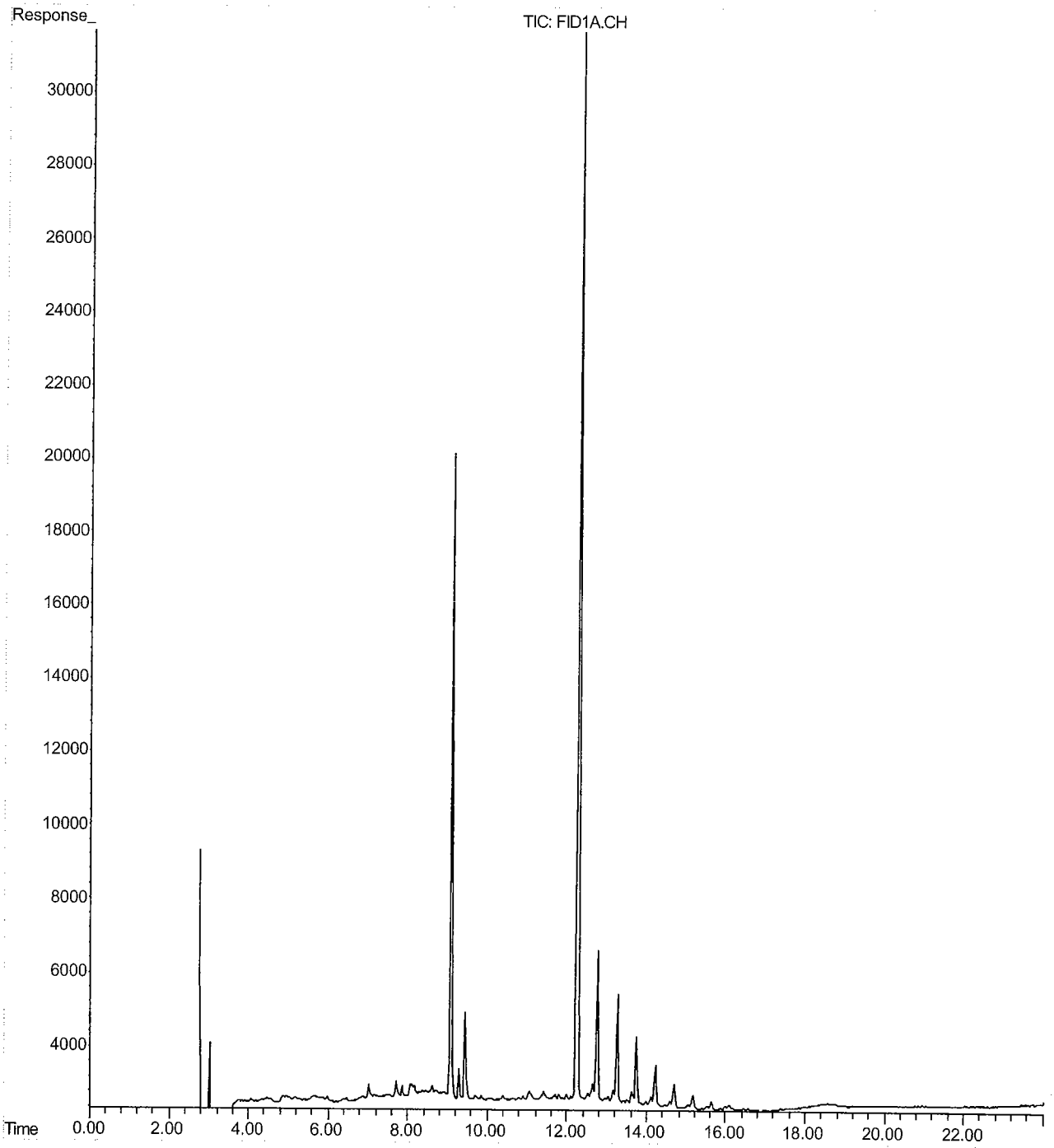
File : o:\d_temp\D269446.D
Operator : YML
Acquired : 19 Apr 2007 2:37 am using AcqMethod BOTH.M
Instrument : Diesel 1
Sample Name: 55902-13
Misc Info : 55902-13 a w 1 ;041601|119312
Vial Number: 64



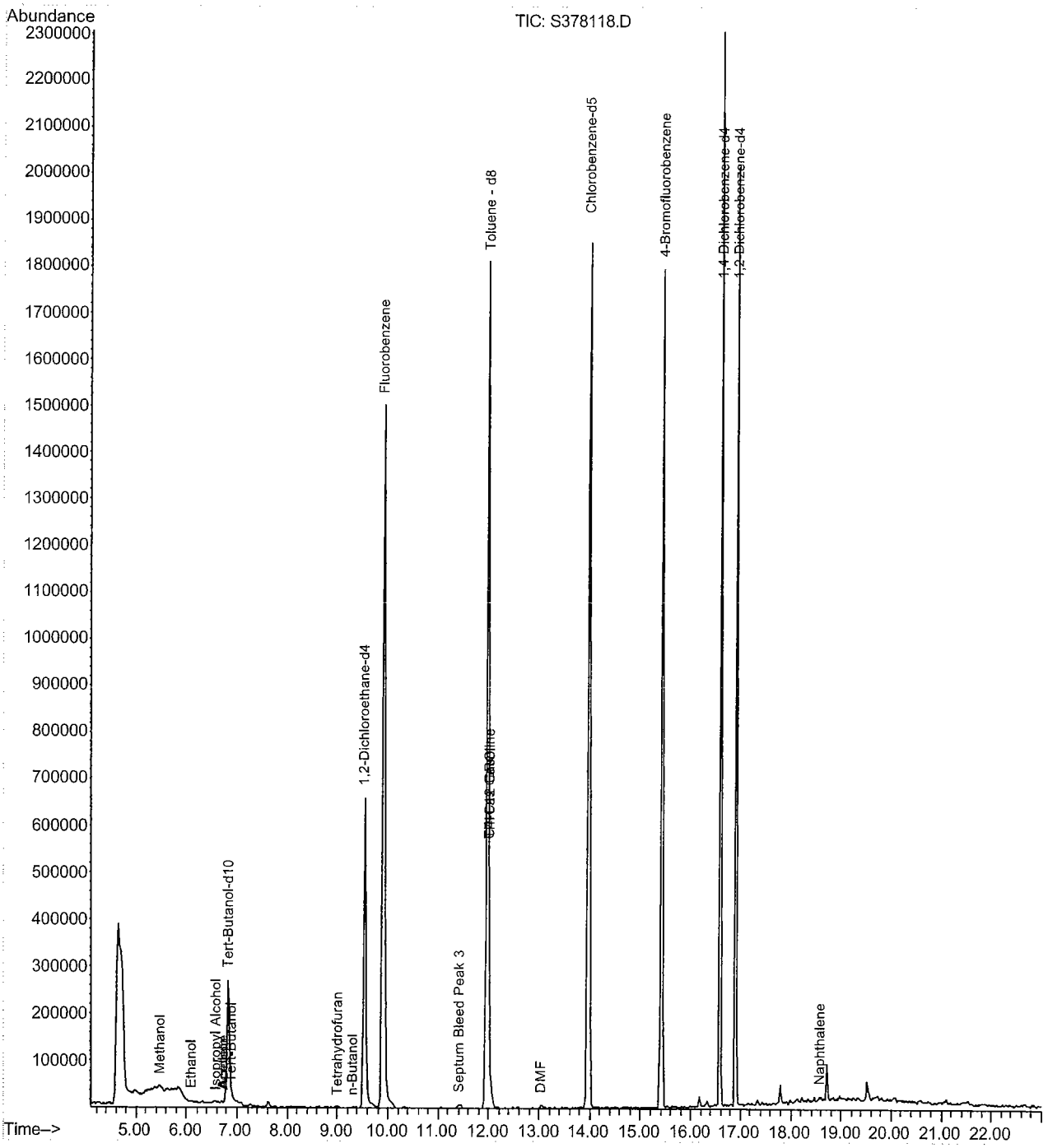
File : o:\hpchem\S843902.D
Operator : CNR
Acquired : 14 Apr 2007 3:46 pm using AcqMethod VOA
Instrument : Instrumen
Sample Name: 55902-14-01
Misc Info :
Vial Number: 12



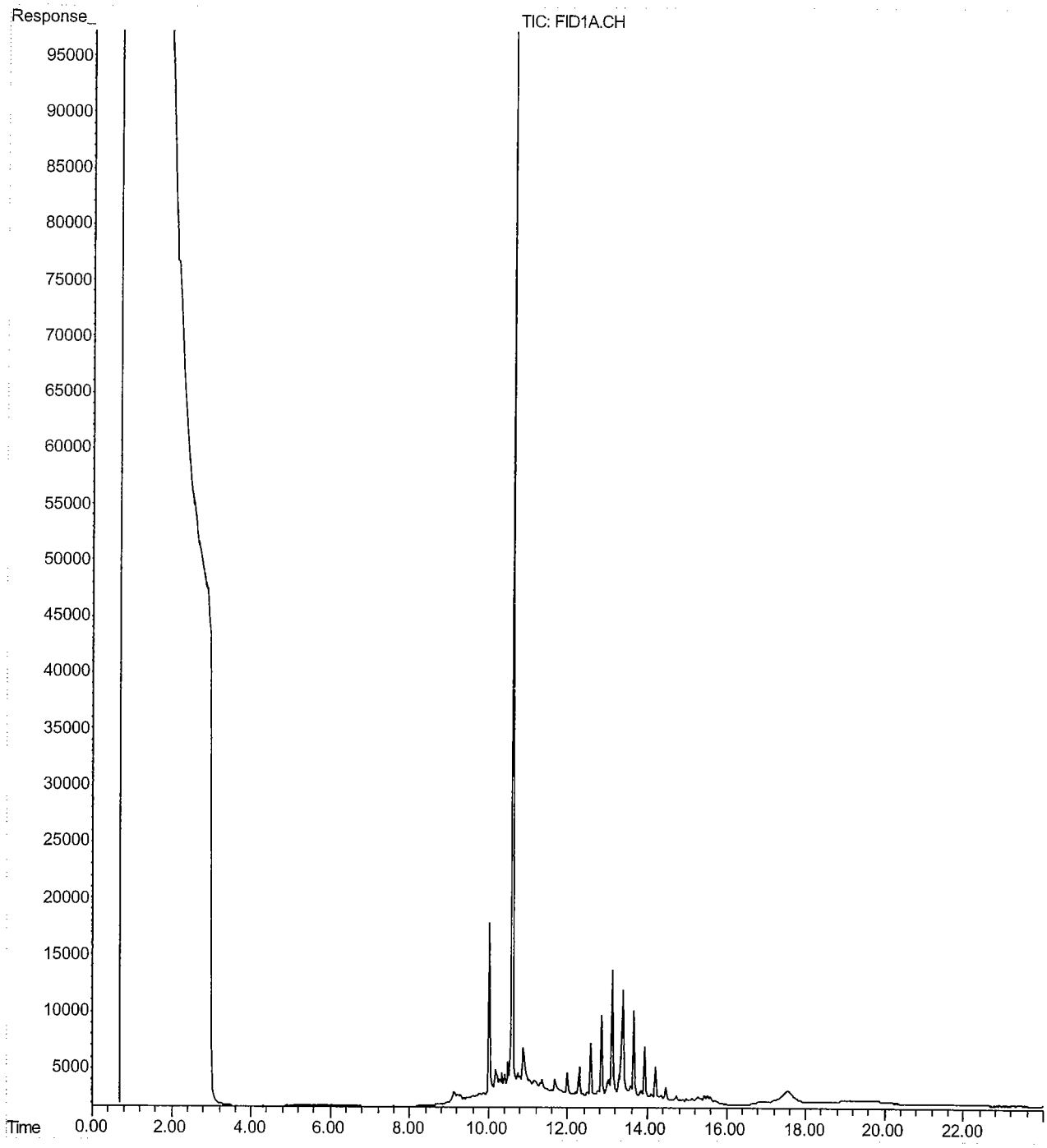
File : o:\d_temp\D269445.D
Operator : YML
Acquired : 19 Apr 2007 2:03 am using AcqMethod BOTH.M
Instrument : Diesel 1
Sample Name: 55902-14
Misc Info : 55902-14 a w 1 ;041601|119319
Vial Number: 63



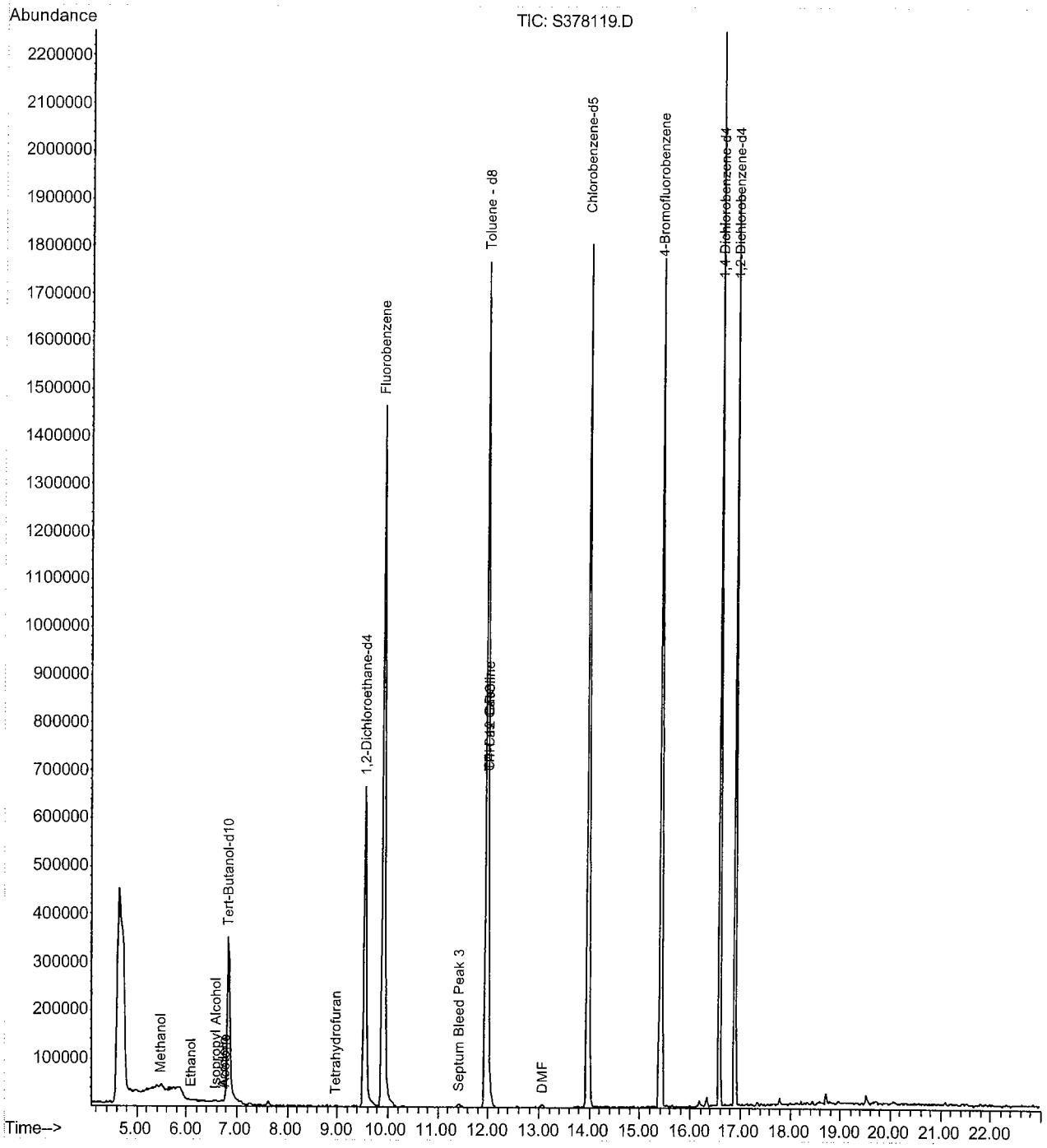
File : o:\hpchem\S378118.D
Operator : GKS
Acquired : 13 Apr 2007 12:19 am using AcqMethod VOA
Instrument : GC/MS Ins
Sample Name: 55902-15 3.04000 1000775076
Misc Info :
Vial Number: 14



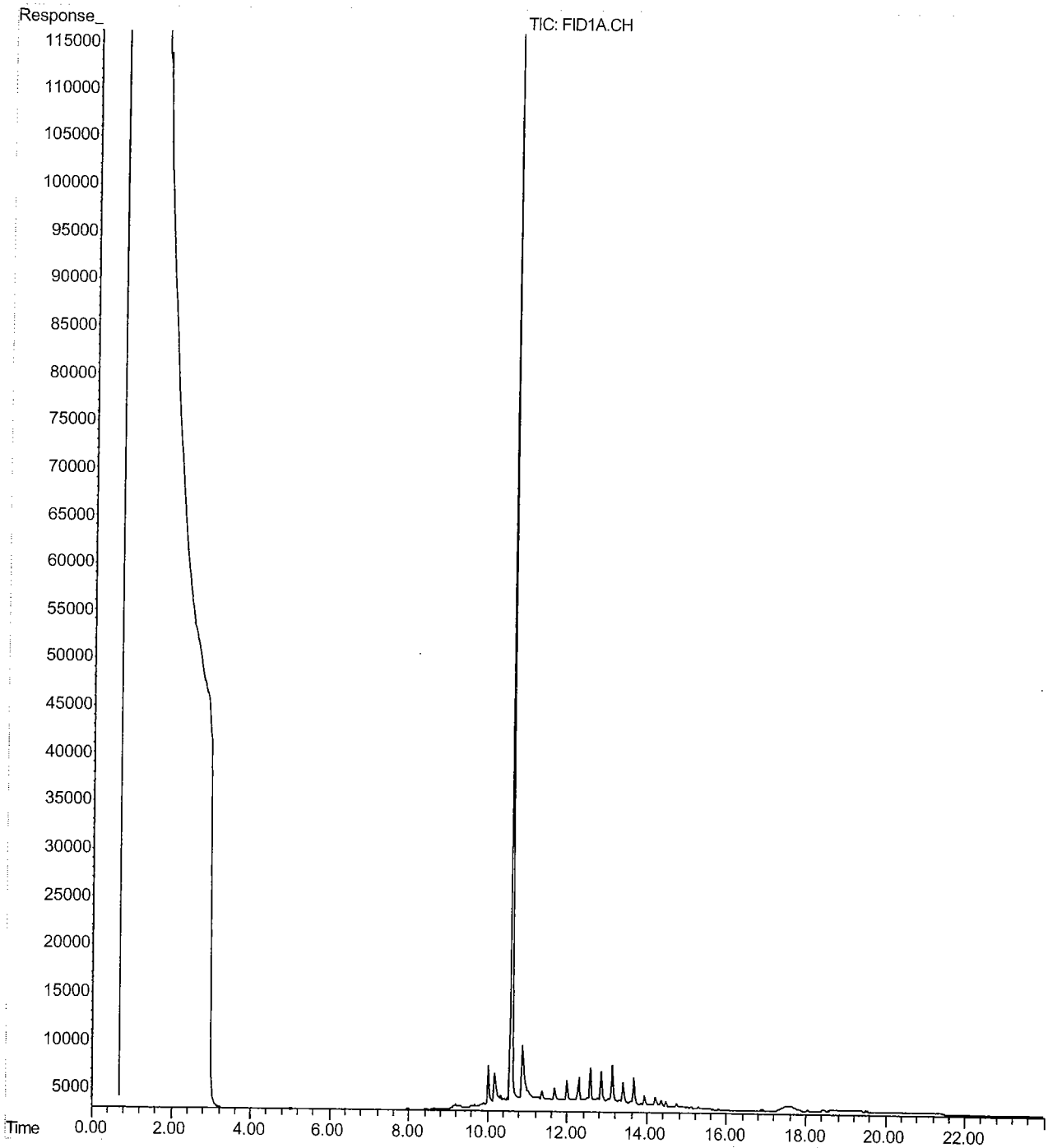
File : o:\d_temp\D169312.D
Operator : EIS
Acquired : 13 Apr 2007 10:44 am using AcqMethod BOTH.M
Instrument : Diesel 1
Sample Name: 55902-15 a s 1 ;041208|118640
Misc Info : HEXANE
Vial Number: 31



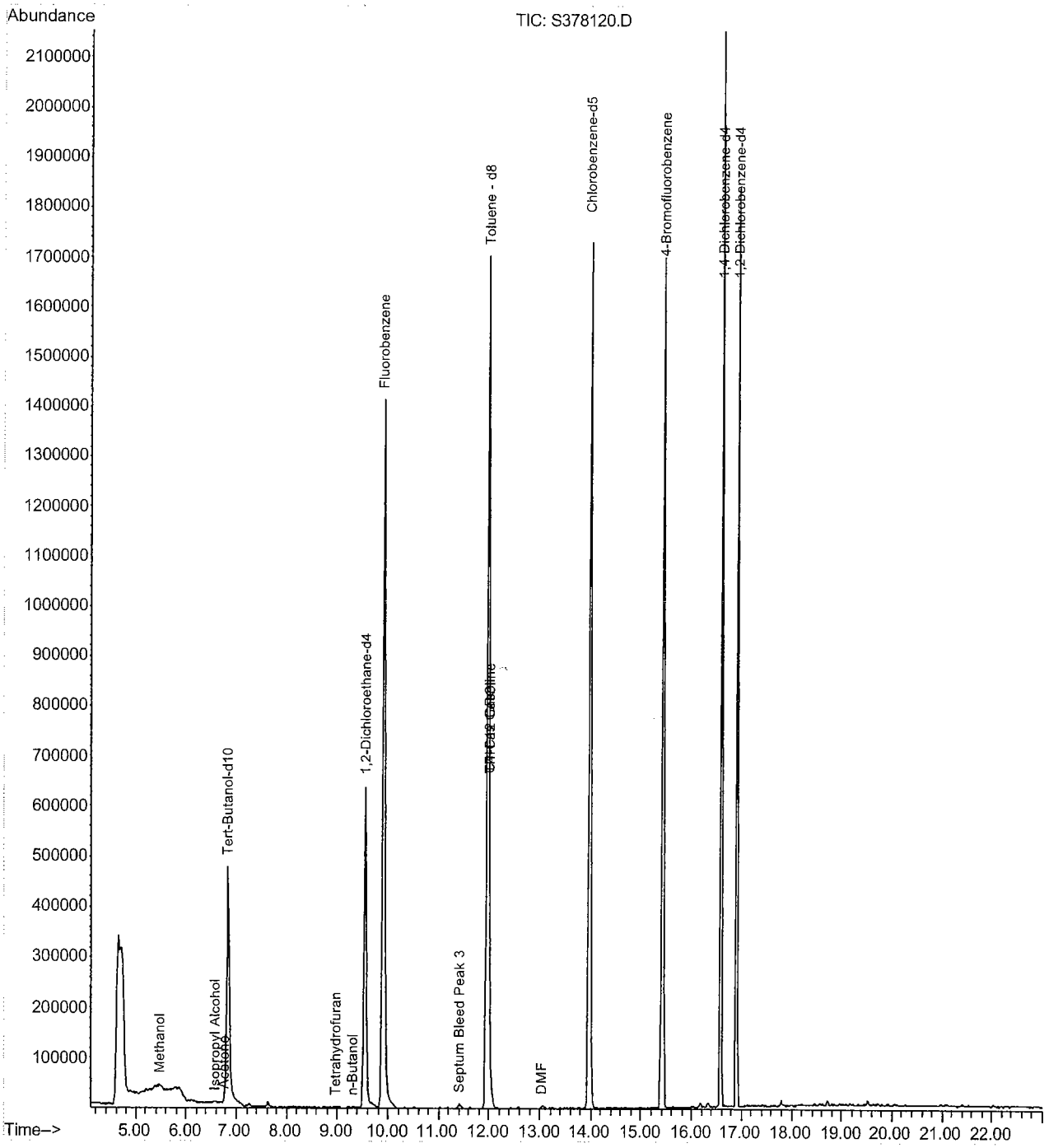
File : o:\hpchem\S378119.D
Operator : GKS
Acquired : 13 Apr 2007 12:49 am using AcqMethod VOA
Instrument : GC/MS Ins
Sample Name: 55902-16 3.06000 1000775080
Misc Info :
Vial Number: 15



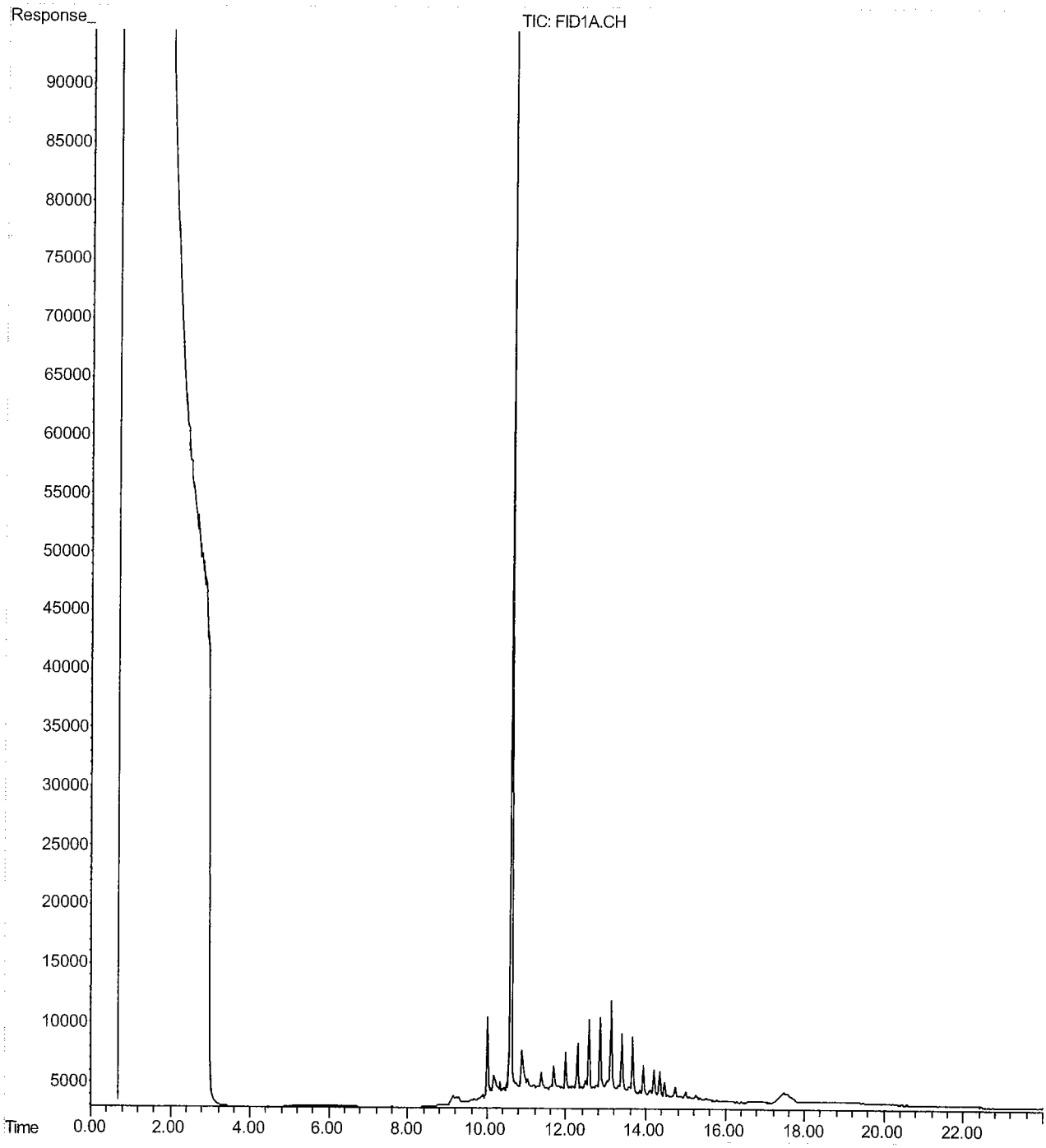
File : o:\d_temp\D169320.D
Operator : DRM
Acquired : 13 Apr 2007 4:30 pm using AcqMethod BOTH.M
Instrument : Diesel 1
Sample Name: 55902-16 a s 1 ;041208|118643
Misc Info : HEXANE
Vial Number: 39



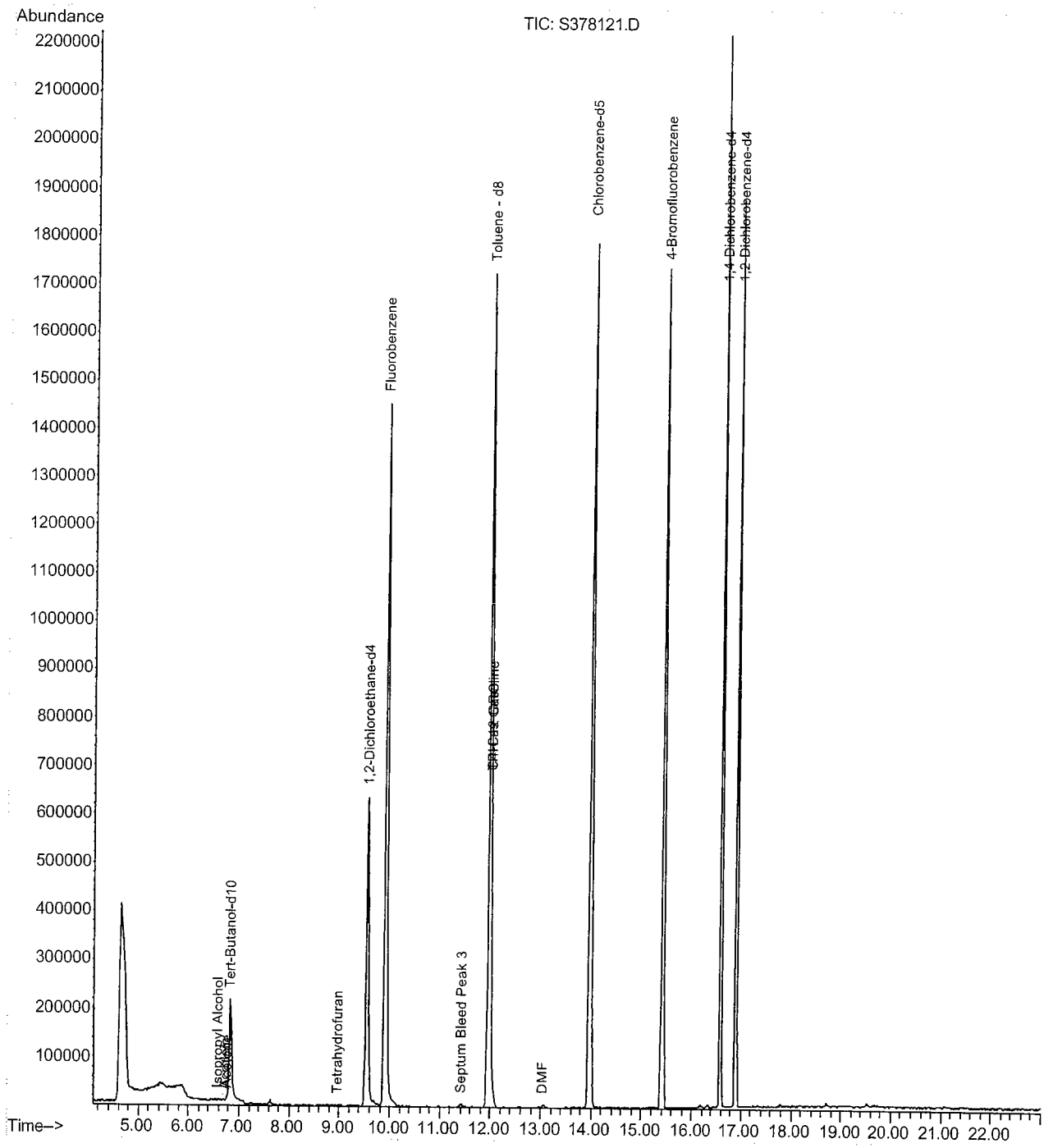
File : o:\hpchem\S378120.D
Operator : GKS
Acquired : 13 Apr 2007 1:20 am using AcqMethod VOA
Instrument : GC/MS Ins
Sample Name: 55902-17 1.03000 1000775086
Misc Info :
Vial Number: 16



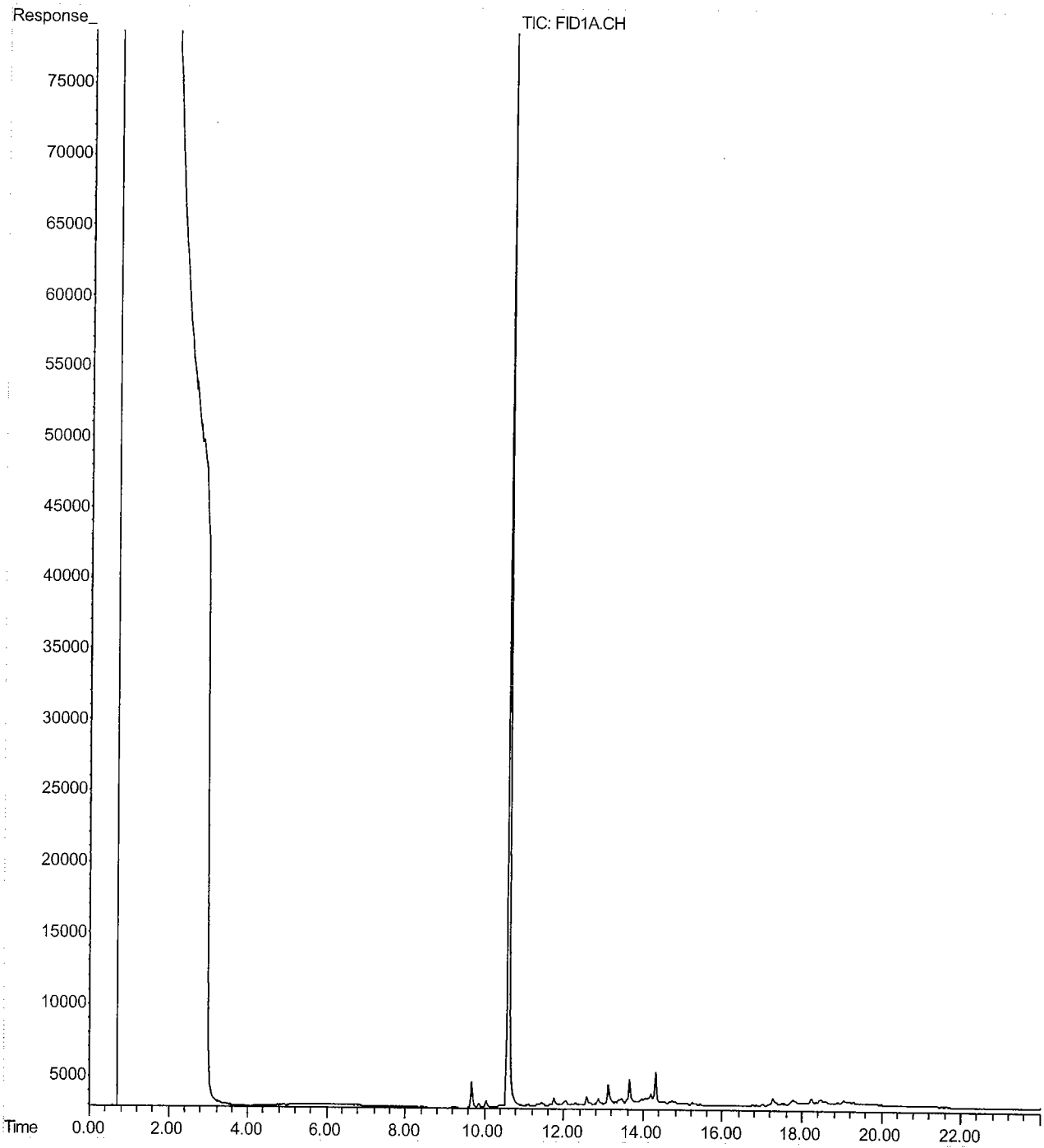
File : o:\d_temp\D169319.D
Operator : DRM
Acquired : 13 Apr 2007 3:54 pm using AcqMethod BOTH.M
Instrument : Diesel 1
Sample Name: 55902-17 a s 1 ;041208|118644
Misc Info : HEXANE
Vial Number: 38



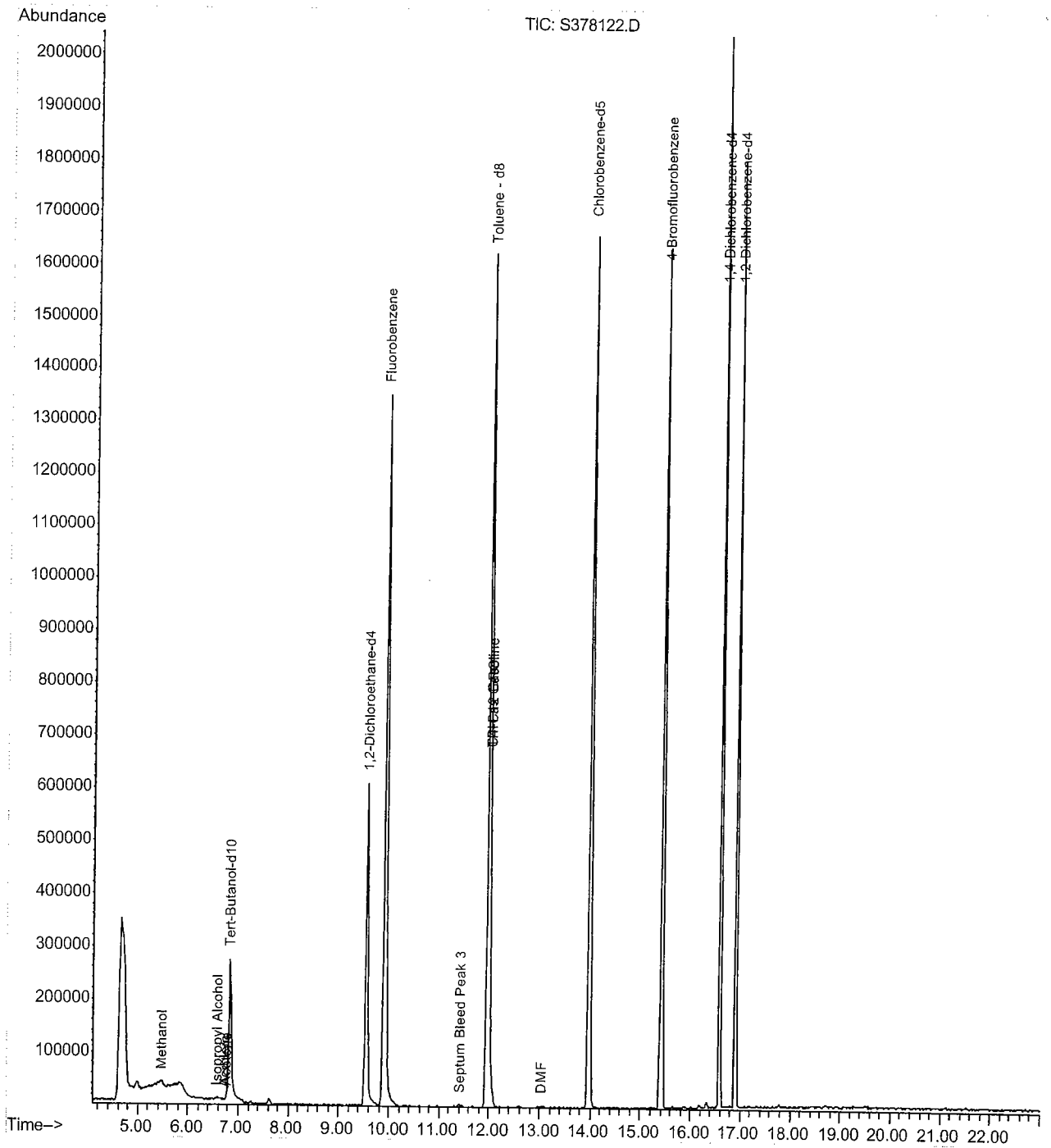
File : o:\hpchem\S378121.D
Operator : GKS
Acquired : 13 Apr 2007 1:50 am using AcqMethod VOA
Instrument : GC/MS Ins
Sample Name: 55902-18 1.05000 1000775096
Misc Info :
Vial Number: 17



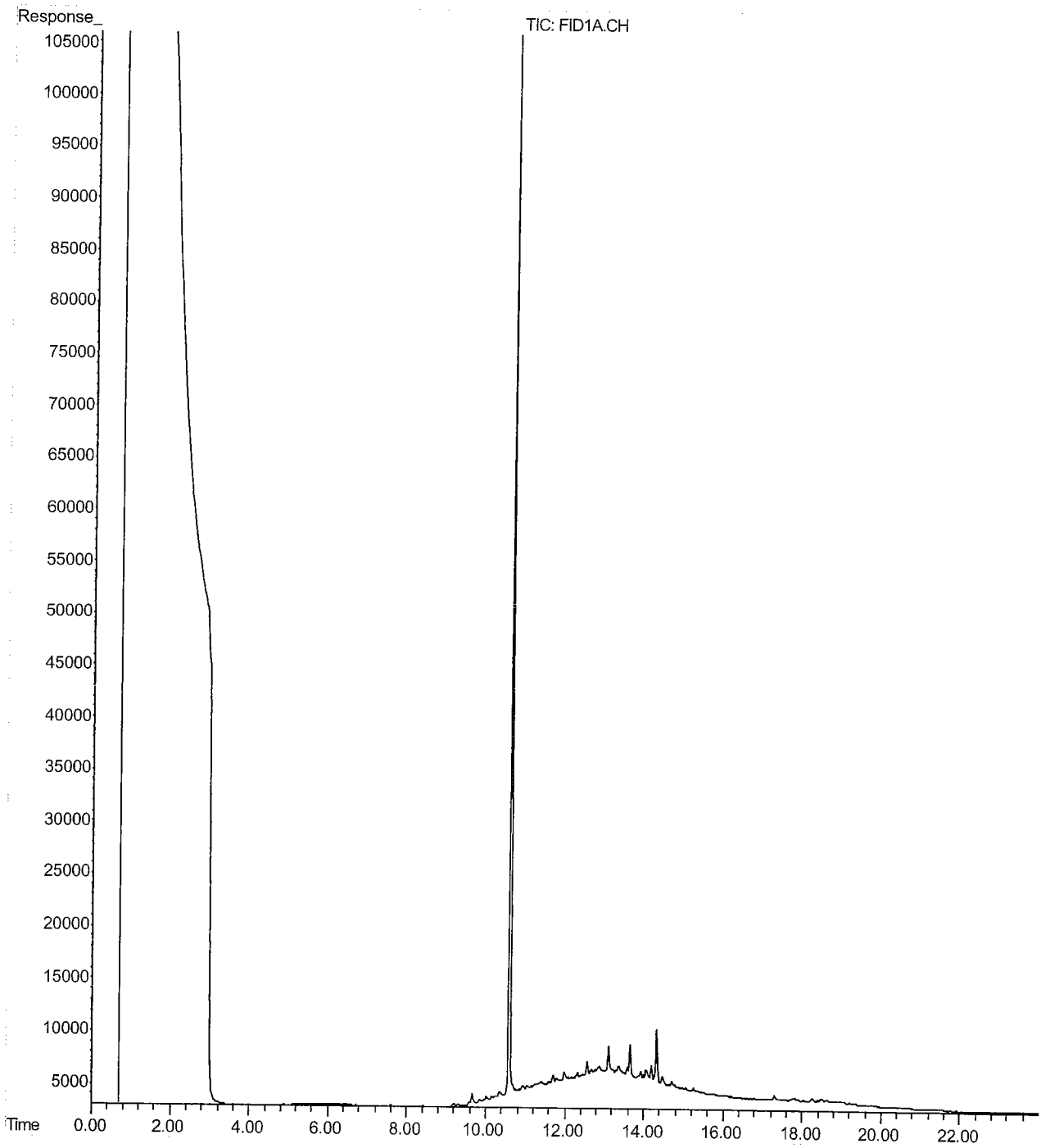
File : o:\d_temp\D169318.D
Operator : DRM
Acquired : 13 Apr 2007 3:18 pm using AcqMethod BOTH.M
Instrument : Diesel 1
Sample Name: 55902-18 a s 1 ;041208|118645
Misc Info : HEXANE
Vial Number: 37



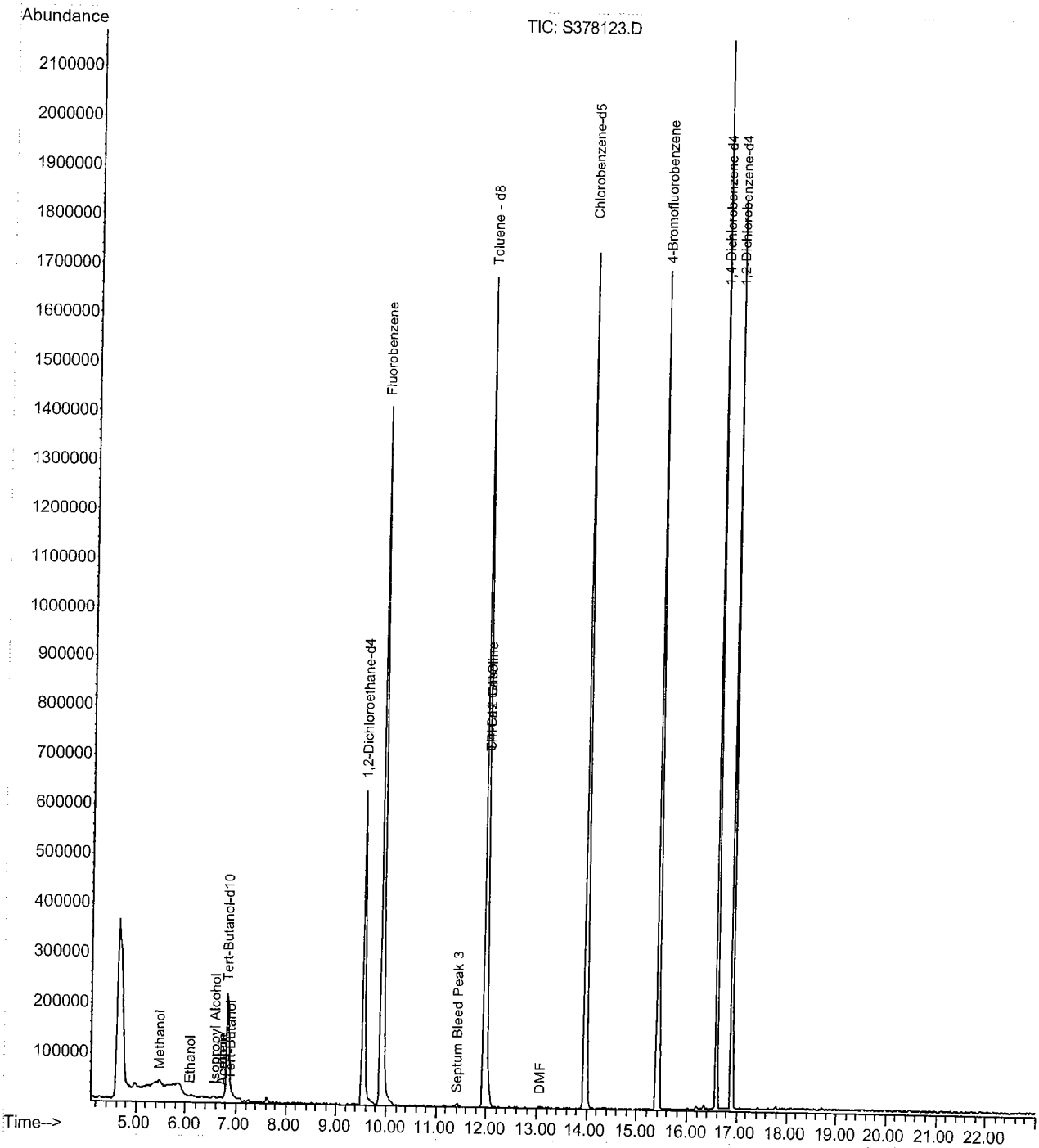
File : o:\hpchem\S378122.D
Operator : GKS
Acquired : 13 Apr 2007 2:20 am using AcqMethod VOA
Instrument : GC/MS Ins
Sample Name: 55902-19 1.00000 1000775067
Misc Info :
Vial Number: 18



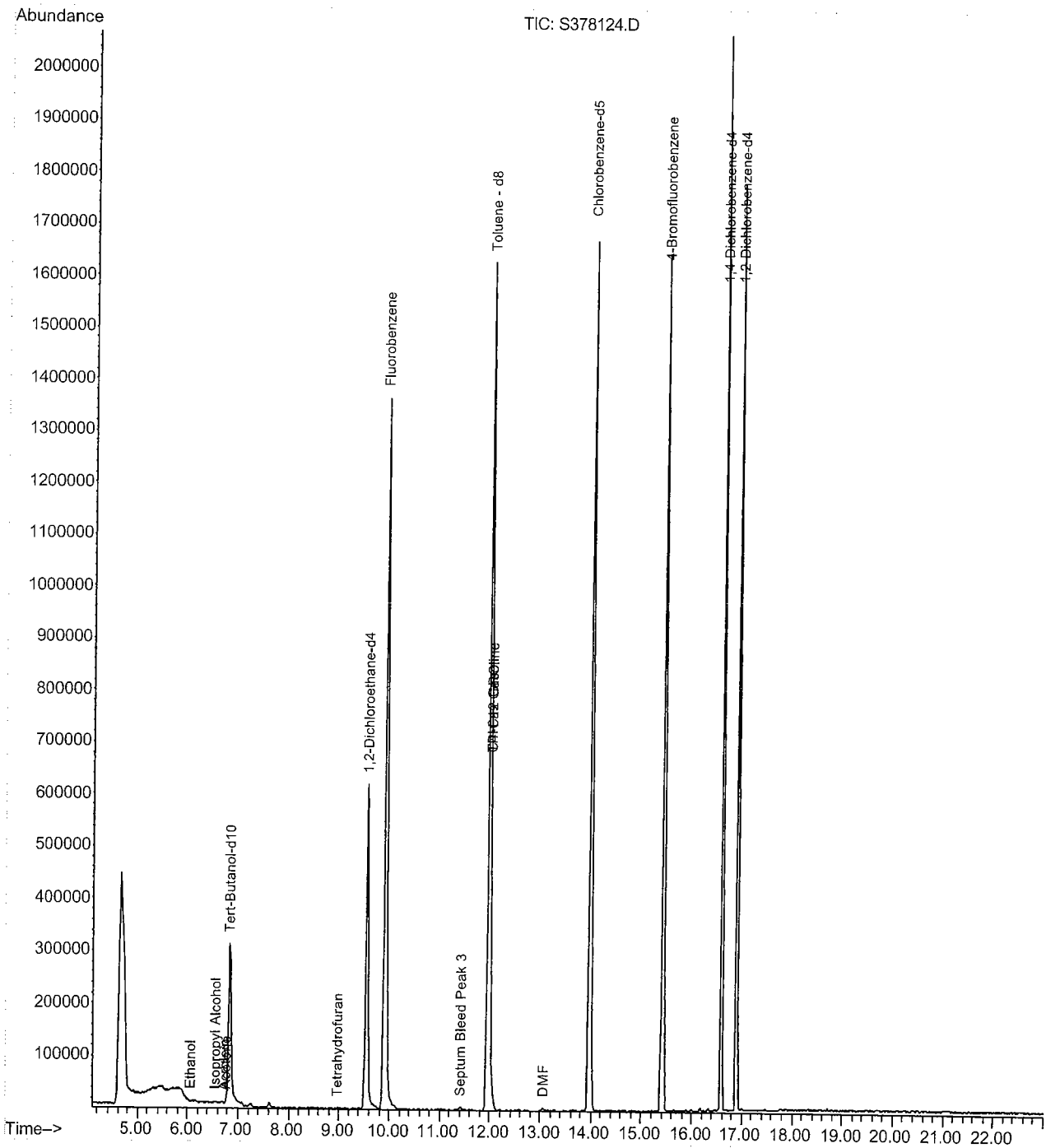
File : o:\d_temp\D169321.D
Operator : DRM
Acquired : 13 Apr 2007 5:06 pm using AcqMethod BOTH.M
Instrument : Diesel 1
Sample Name: 55902-19
Misc Info : HEXANE
Vial Number: 40



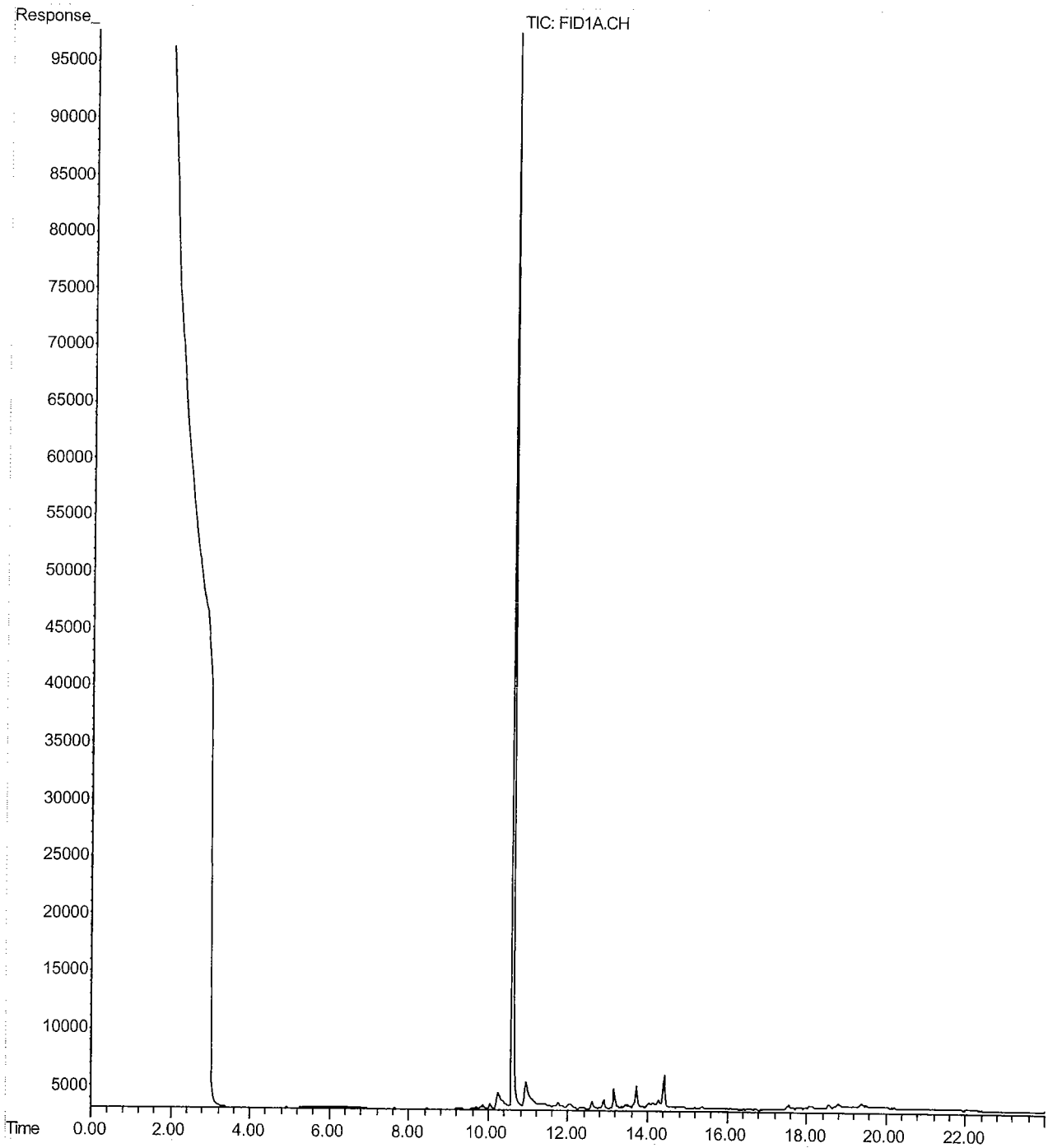
File : o:\hpchem\S378123.D
Operator : GKS
Acquired : 13 Apr 2007 2:50 am using AcqMethod VOA
Instrument : GC/MS Ins
Sample Name: 55902-20 1.01000 1000775069
Misc Info :
Vial Number: 19



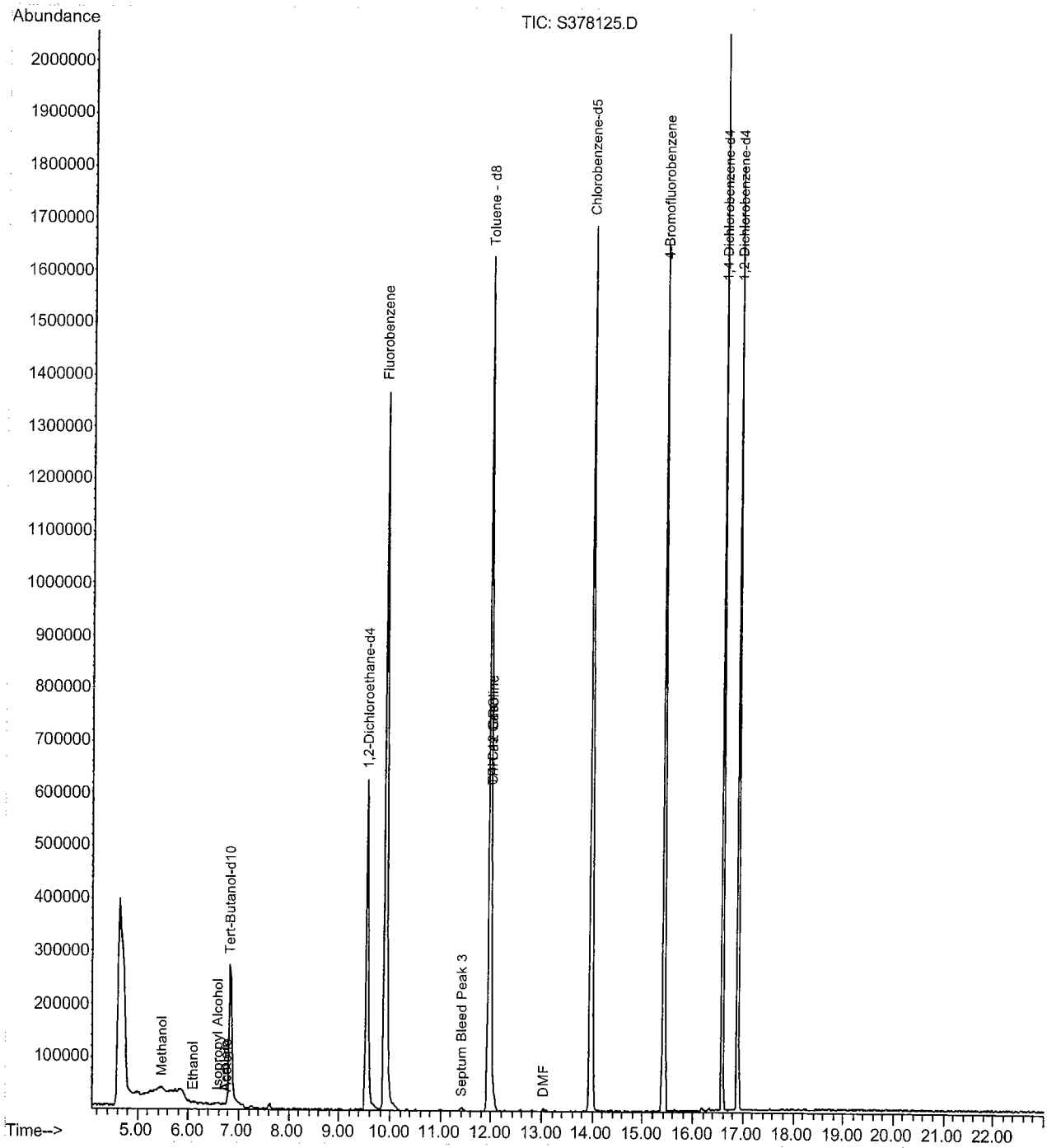
File : o:\hpchem\S378124.D
Operator : GKS
Acquired : 13 Apr 2007 3:20 am using AcqMethod VOA
Instrument : GC/MS Ins
Sample Name: 55902-21 1.08000 1000775098
Misc Info :
Vial Number: 20



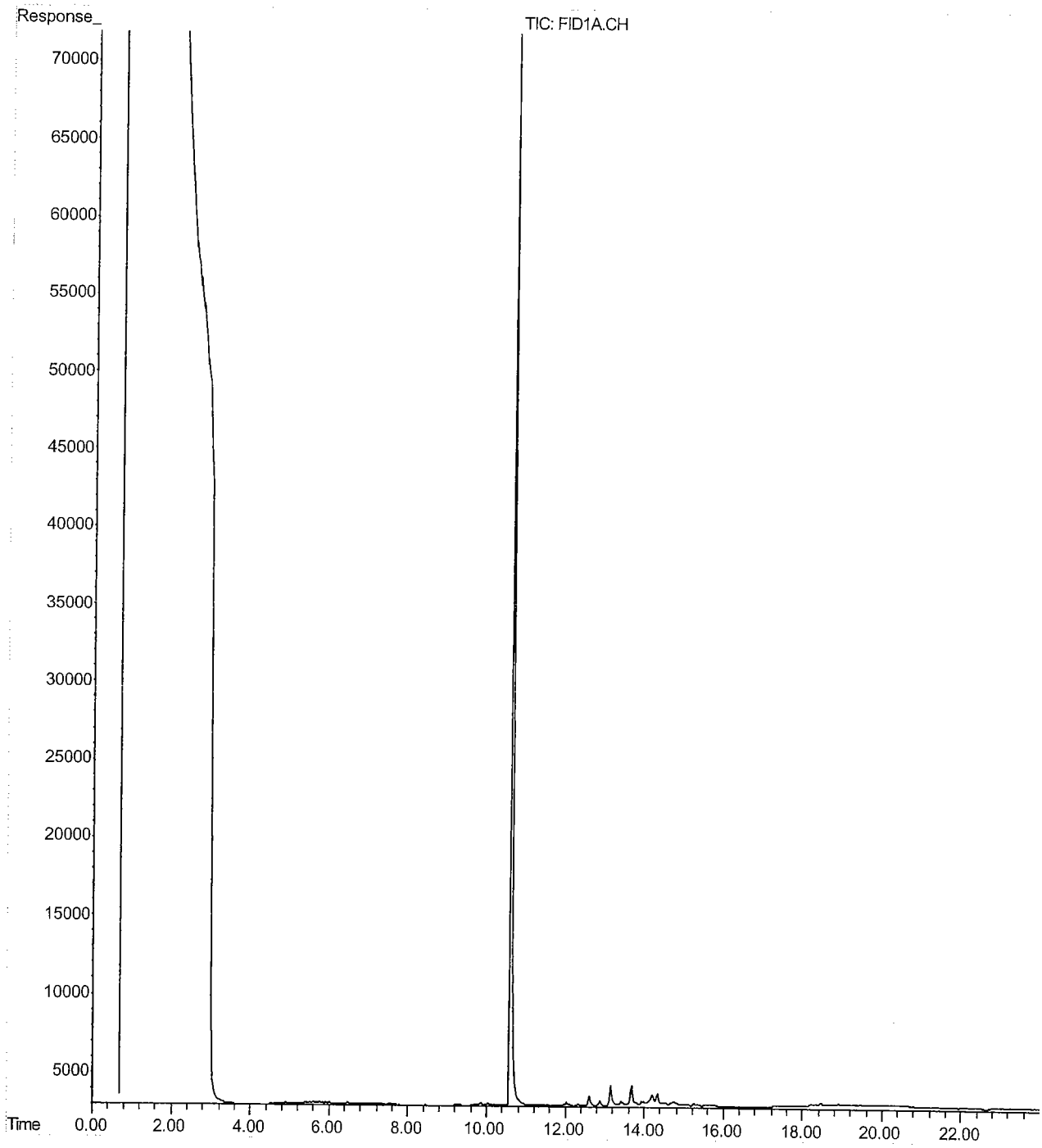
File : o:\d_temp\D169315.D
Operator : DRM
Acquired : 13 Apr 2007 1:29 pm using AcqMethod BOTH.M
Instrument : Diesel 1
Sample Name: 55902-21 a s 1 ;041208|118647
Misc Info : HEXANE
Vial Number: 34



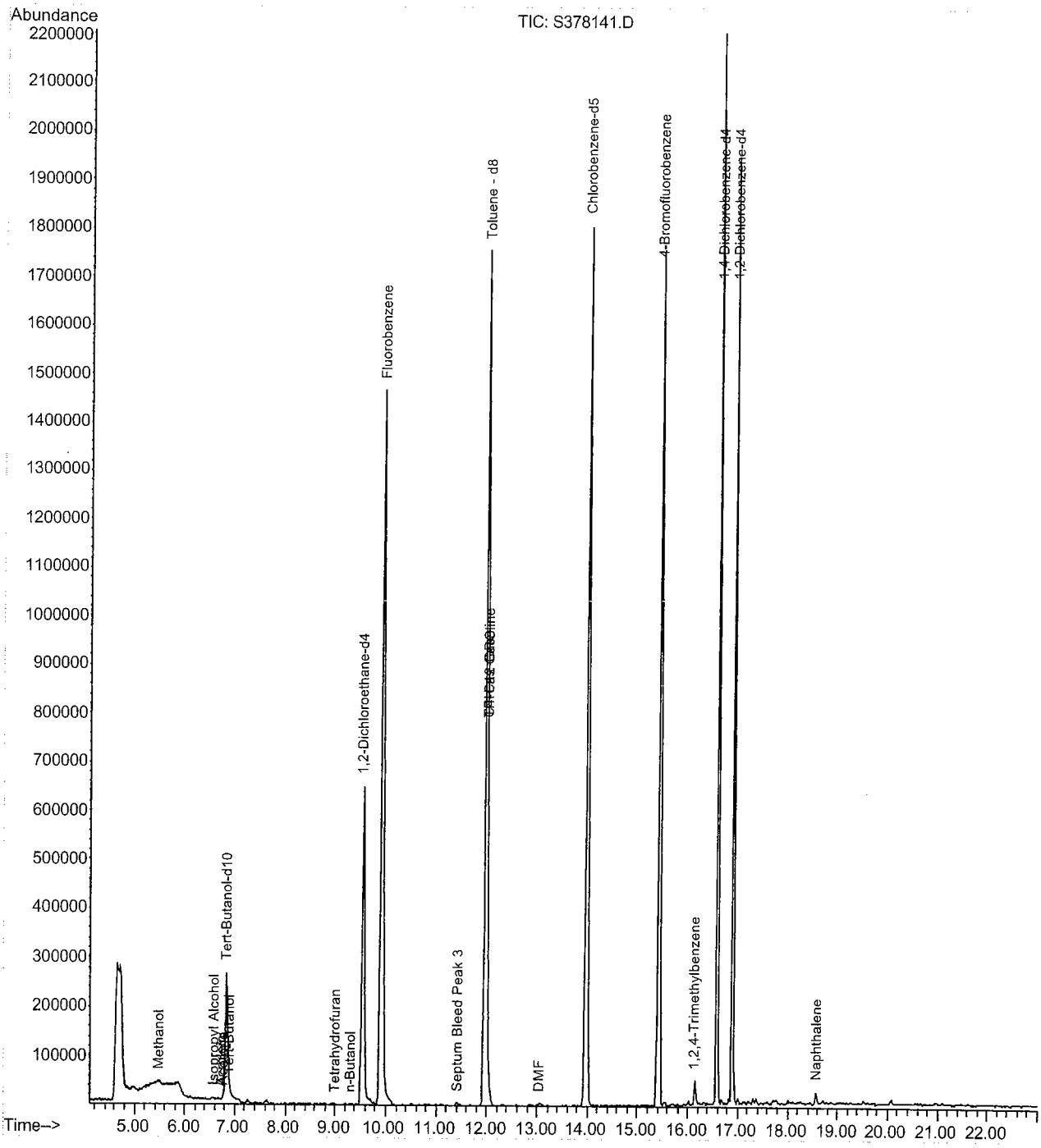
File : o:\hpchem\S378125.D
Operator : GKS
Acquired : 13 Apr 2007 3:50 am using AcqMethod VOA
Instrument : GC/MS Ins
Sample Name: 55902-23 1.04000 1000775100
Misc Info :
Vial Number: 21



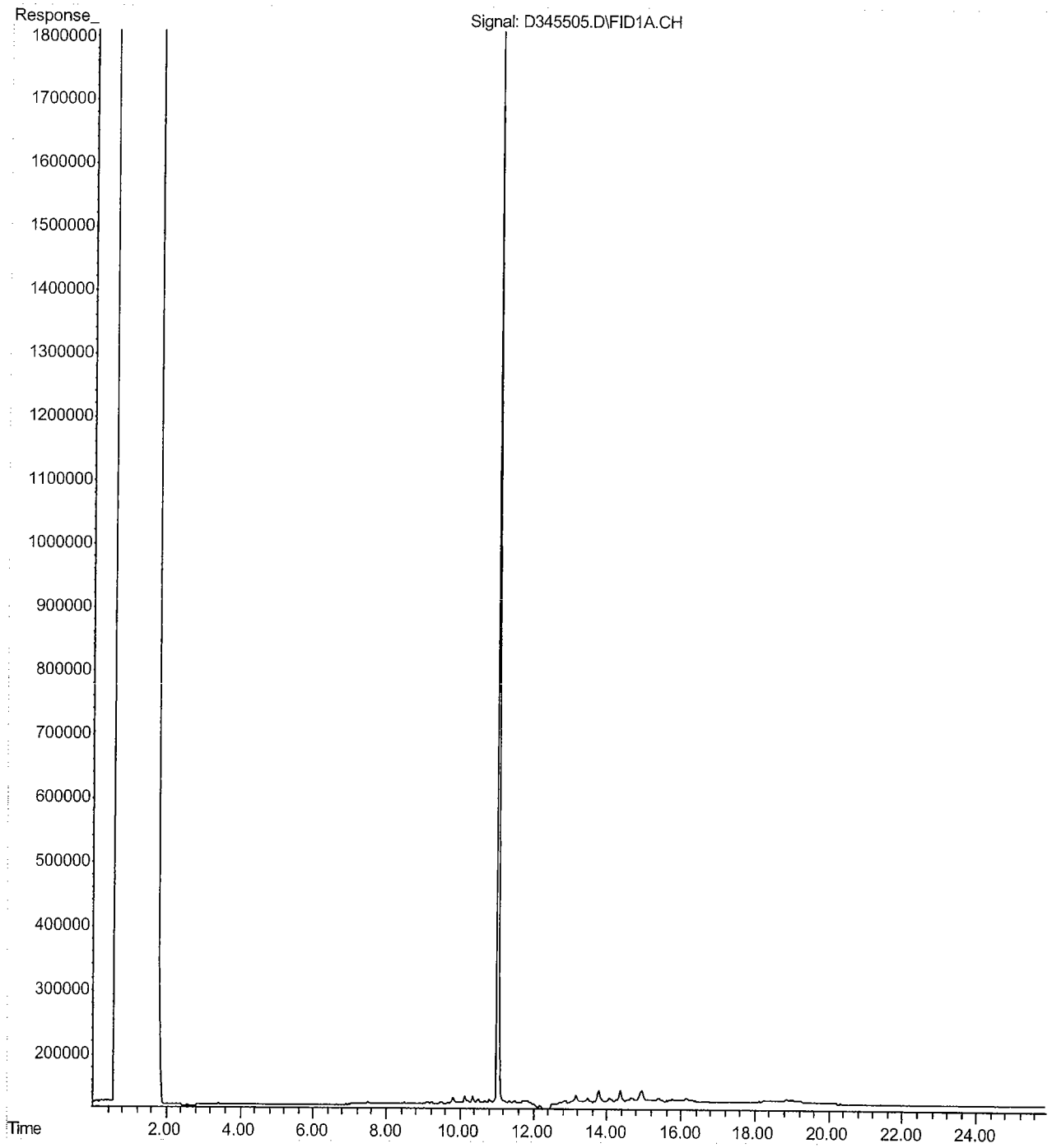
File : o:\d_temp\D169317.D
Operator : DRM
Acquired : 13 Apr 2007 2:41 pm using AcqMethod BOTH.M
Instrument : Diesel 1
Sample Name: 55902-23
Misc Info : HEXANE
Vial Number: 36



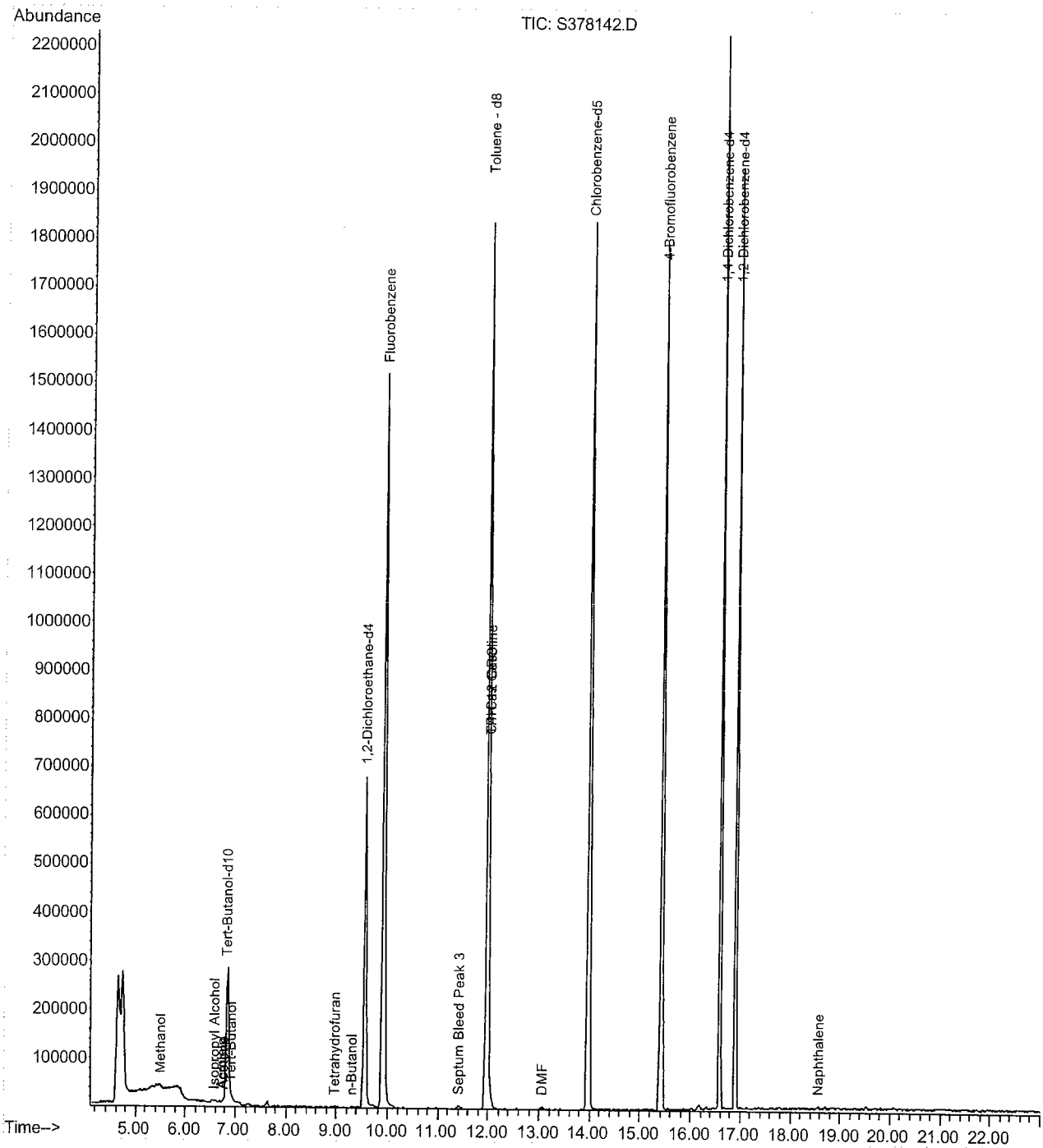
File : o:\hpchem\S378141.D
Operator : RAV
Acquired : 13 Apr 2007 4:04 pm using AcqMethod VOA
Instrument : GC/MS Ins
Sample Name: 55902-24 1.07000 1000775102
Misc Info :
Vial Number: 16



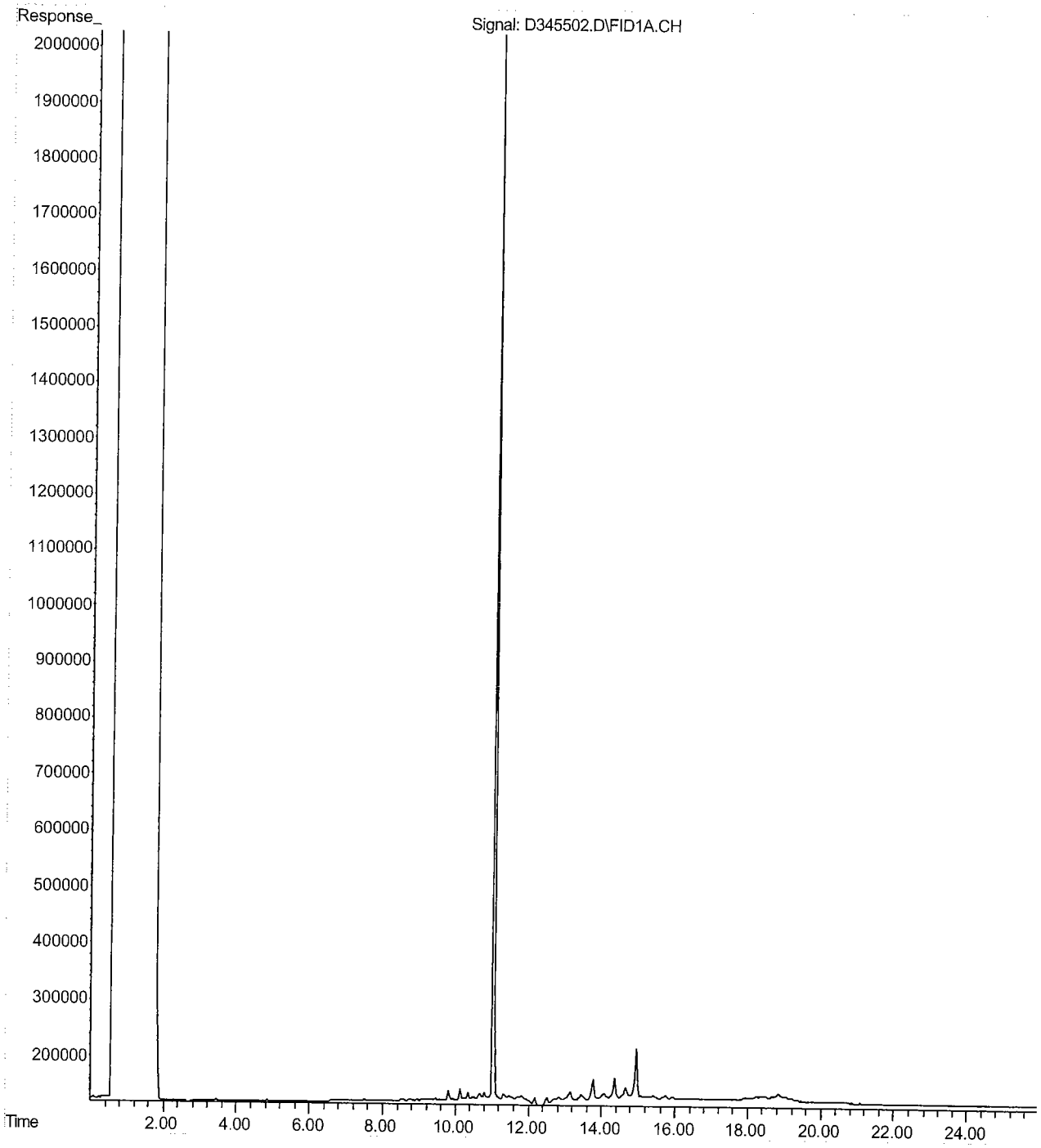
File : o:\d_temp\D345505.D
Operator : DRM
Acquired : 13 Apr 2007 10:58 pm using AcqMethod BOTH.M
Instrument : Diesel #2
Sample Name: 55902-24
Misc Info :
Vial Number: 50



File : o:\hpchem\S378142.D
Operator : RAV
Acquired : 13 Apr 2007 4:34 pm using AcqMethod VOA
Instrument : GC/MS Ins
Sample Name: 55902-25 1.08000 1000775104
Misc Info :
Vial Number: 17



File : o:\d_temp\D345502.D
Operator : DRM
Acquired : 13 Apr 2007 9:11 pm using AcqMethod BOTH.M
Instrument : Diesel #2
Sample Name: 55902-25
Misc Info :
Vial Number: 47



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File        : o:\d_temp\D345931.D
Operator    : YML
Acquired    : 28 Apr 2007  10:31 am using AcqMethod BOTH.M
Instrument :   Diesel #2
Sample Name: 55902-26      s 100 ;042701|121312
Misc Info   :
Vial Number: 23
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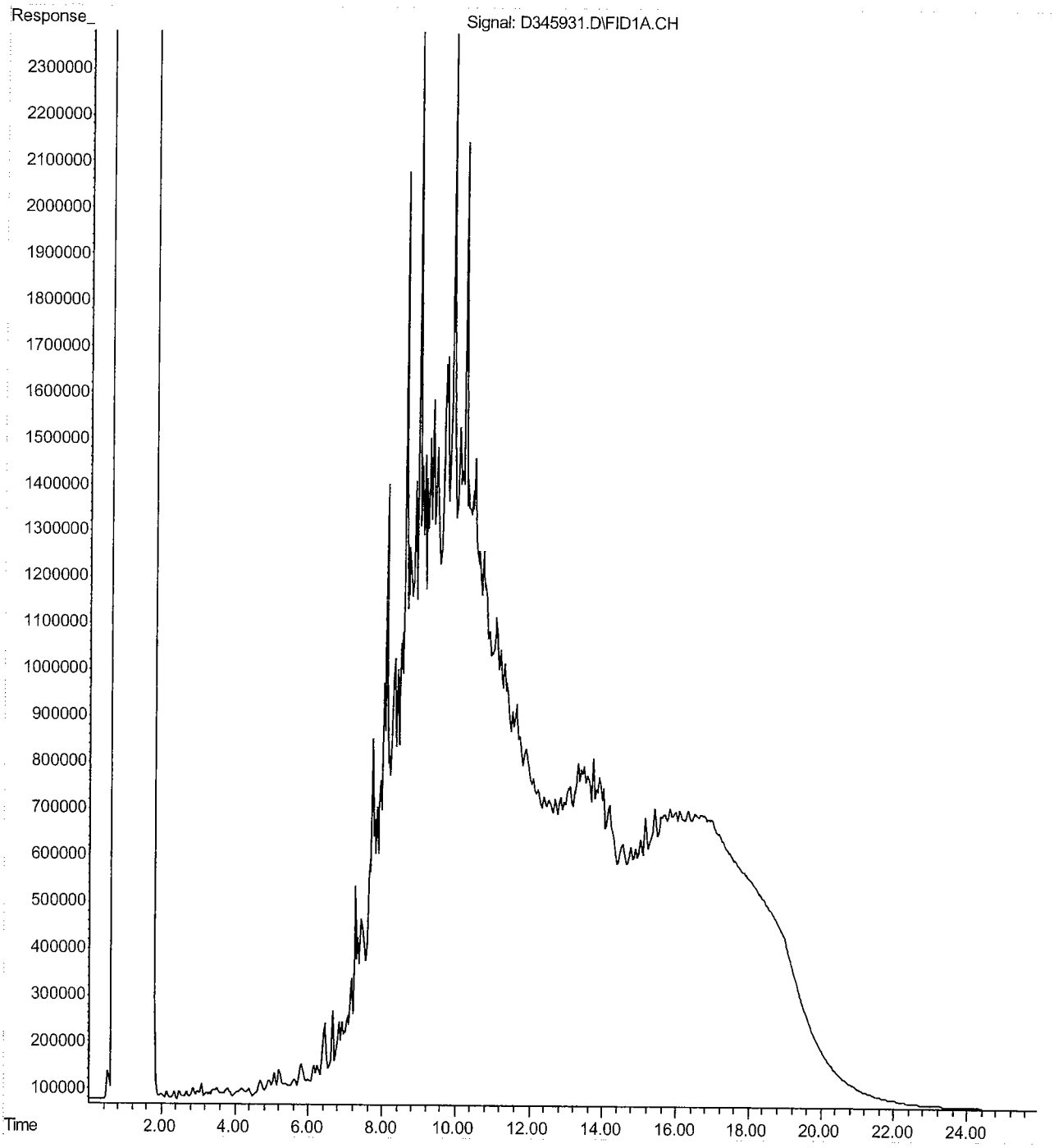

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File         : C:\DATAFO~1\D312695.D
Operator     : DRM
Acquired     : 01 Jul 2003    3:08 pm using AcqMethod BOTH.M
Instrument   :   Diesel2
Sample Name: DIESEL 200 063003-02
Misc Info    :
Vial Number: 32
```
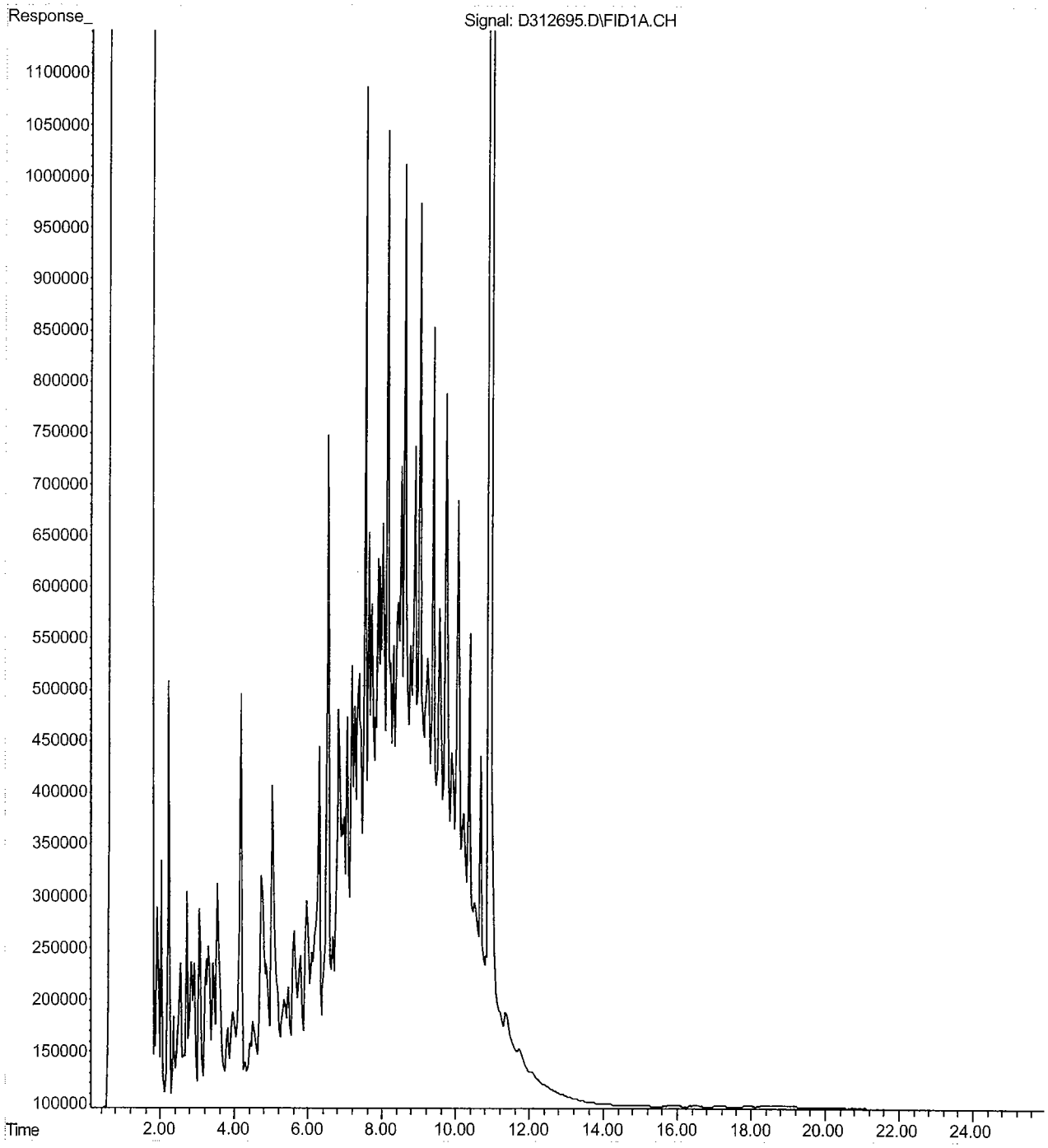
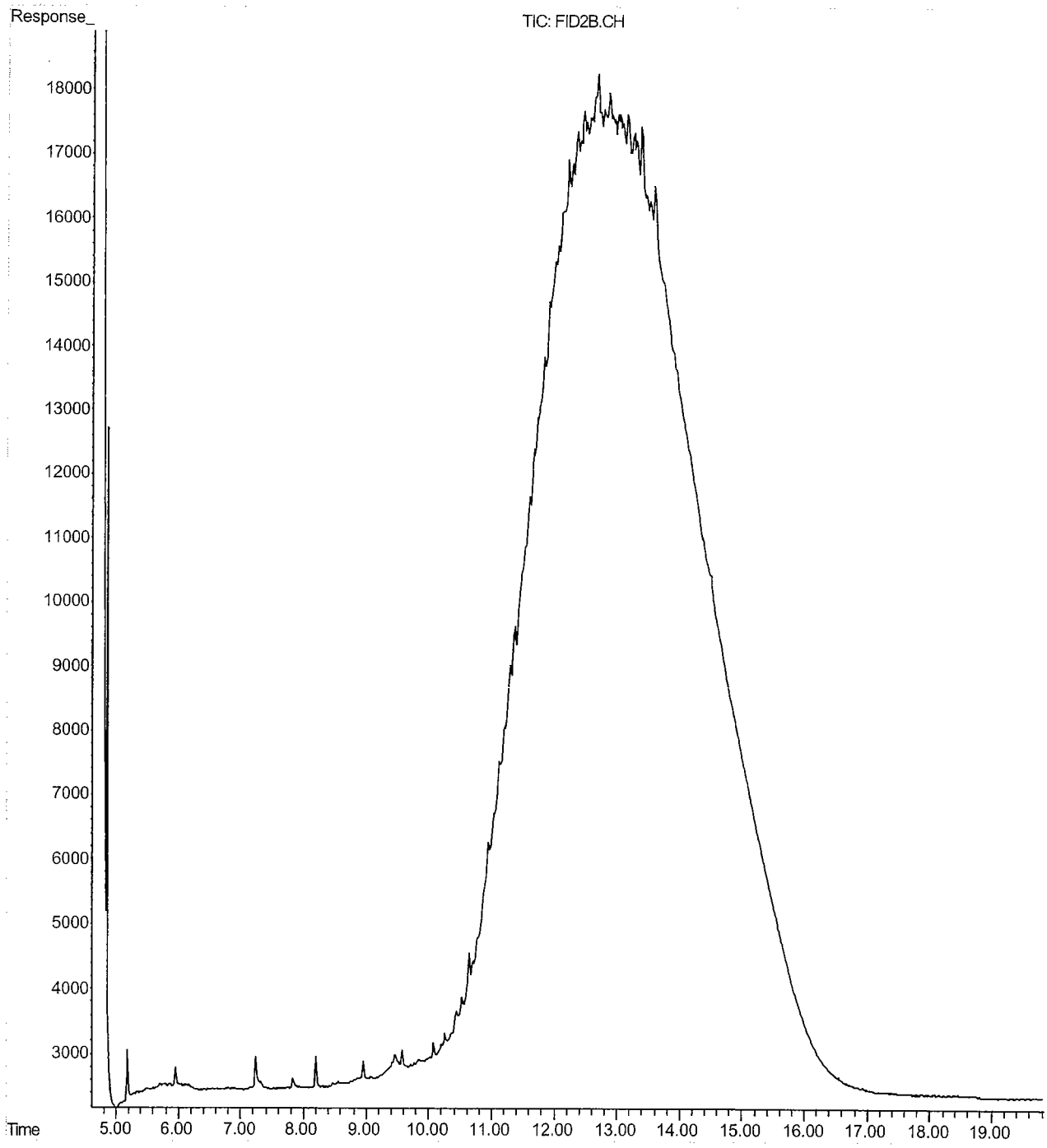



File : K:\HPCHEM\1\DATA\D141624.D
Operator : DEO
Acquired : 18 Mar 2003 9:02 pm using AcqMethod BOTH.M
Instrument : Diesel #1
Sample Name: 200 MOTOR OIL 031803-11
Misc Info :
Vial Number: 46



Calscience
Environmental
Laboratories, Inc.

April 26, 2007

Joel Kiff
Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Subject: **Calscience Work Order No.: 07-04-1712**
Client Reference: Crystal Creamery

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 4/25/2007 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 04/25/07
Work Order No: 07-04-1712
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: Crystal Creamery

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
B17-11	**07-04-1712-1**	**04/11/07**	**Solid**	**GC/MS P**	**04/25/07**	**04/25/07**	**070425L04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	1.0	2		Benzo (a) Anthracene	ND	1.0	2	
Acenaphthylene	ND	1.0	2		Chrysene	ND	1.0	2	
Acenaphthene	1.4	1.0	2		Benzo (k) Fluoranthene	ND	1.0	2	
Fluorene	ND	1.0	2		Benzo (b) Fluoranthene	ND	1.0	2	
Phenanthrene	ND	1.0	2		Benzo (a) Pyrene	ND	1.0	2	
Anthracene	ND	1.0	2		Indeno (1,2,3-c,d) Pyrene	ND	1.0	2	
Fluoranthene	ND	1.0	2		Dibenz (a,h) Anthracene	ND	1.0	2	
Pyrene	3.8	1.0	2		Benzo (g,h,i) Perylene	ND	1.0	2	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
2-Fluorophenol	93	42-120			Phenol-d6	91	46-118		
Nitrobenzene-d5	73	42-150			2-Fluorobiphenyl	93	38-134		
2,4,6-Tribromophenol	129	36-132			p-Terphenyl-d14	231	35-167		2

Method Blank	099-12-549-33	N/A	Solid	GC/MS P	04/25/07	04/25/07	070425L04

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.50	1		Benzo (a) Anthracene	ND	0.50	1	
Acenaphthylene	ND	0.50	1		Chrysene	ND	0.50	1	
Acenaphthene	ND	0.50	1		Benzo (k) Fluoranthene	ND	0.50	1	
Fluorene	ND	0.50	1		Benzo (b) Fluoranthene	ND	0.50	1	
Phenanthrene	ND	0.50	1		Benzo (a) Pyrene	ND	0.50	1	
Anthracene	ND	0.50	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	1	
Fluoranthene	ND	0.50	1		Dibenz (a,h) Anthracene	ND	0.50	1	
Pyrene	ND	0.50	1		Benzo (g,h,i) Perylene	ND	0.50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
2-Fluorophenol	89	42-120			Phenol-d6	87	46-118		
Nitrobenzene-d5	89	42-150			2-Fluorobiphenyl	84	38-134		
2,4,6-Tribromophenol	78	36-132			p-Terphenyl-d14	72	35-167		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 04/25/07
Work Order No: 07-04-1712
Preparation: EPA 3545
Method: EPA 8270C

Project Crystal Creamery

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B17-11	Solid	GC/MS P	04/25/07	04/25/07	070425S04

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Phenol	87	84	57-123	3	0-16	
2-Chlorophenol	84	82	57-111	3	0-17	
1,4-Dichlorobenzene	79	78	49-127	1	0-20	
N-Nitroso-di-n-propylamine	98	95	54-144	3	0-17	
1,2,4-Trichlorobenzene	71	67	42-132	5	0-20	
4-Chloro-3-Methylphenol	89	83	50-128	7	0-17	
Acenaphthene	84	80	49-133	4	0-18	
4-Nitrophenol	44	53	30-144	19	0-21	
2,4-Dinitrotoluene	4	4	50-128	1	0-18	3
Pentachlorophenol	60	48	29-113	23	0-22	4
Pyrene	220	187	47-149	14	0-20	3

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: N/A
Work Order No: 07-04-1712
Preparation: EPA 3545
Method: EPA 8270C

Project: Crystal Creamery

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-549-33	Solid	GC/MS P	04/25/07	04/25/07	070425L04

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Phenol	88	88	59-125	0	0-15	
2-Chlorophenol	88	88	60-114	0	0-15	
1,4-Dichlorobenzene	86	85	61-121	1	0-21	
N-Nitroso-di-n-propylamine	89	89	64-136	1	0-15	
1,2,4-Trichlorobenzene	84	83	58-118	1	0-18	
4-Chloro-3-Methylphenol	91	90	61-121	0	0-14	
Acenaphthene	82	82	59-125	0	0-15	
4-Nitrophenol	84	85	38-152	1	0-31	
2,4-Dinitrotoluene	92	92	51-141	1	0-16	
Pentachlorophenol	65	64	38-116	1	0-20	
Pyrene	66	65	51-141	1	0-14	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 07-04-1712

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike or Matrix Spike Duplicate compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

KIFF Analytical LLC

2795 Second Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4808

Cal Science Environmental
7440 Lincoln Way
Garden Grove, CA 92841
714-895-5494

Lab No. 1712

Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF to): Christie Dumas

EDF Report? ___ Yes _X_No

Company/Address: Kiff Analytical, LLC

Recommended but not mandatory to complete this section:

Sampling Company Log Code:

Global ID:

Phone No.: FAX No.:

Project Number: 7528.03 P.O. No.: 55902

EDF Deliverable to (Email Address):

Project Name: Crystal Creamery

E-mail address: inbox@kiffanalytical.com

Project Address:

Sample Designation	Sampling		Container					Preservative					Matrix			Analysis Request								Date due:	For Lab Use Only
	Date	Time	VOA	Poly	Sleeve	Amber	Glass Jar	HNO_3	H_2SO_4	$Na_2S_2O_3$	$ZnAc_2$ & NaOH	NONE	WATER	SOIL	Air	CAM 17 Metals (ICP)	PCBs by EPA 8082	PNAs by EPA 8270						April 26, 2007	
B17-11	04/11/07	12:15					1					1		X				X						X	

Relinquished by:		Date	Time	Received by:
Hardip Kandola	Kiff Analytical	042407	1900	
Relinquished by:		Date	Time	Received by:
Relinquished by:		Date	Time	Received by Laboratory:
		4/25/07	0800	

Remarks:

Bill to: Accounts Payable

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 07 - 04 - 17 12

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: Kiff **DATE:** 4/25/07

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
_____ Ambient temperature.
_____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

3.9 °C Temperature blank.
_____ °C IR thermometer.
_____ Ambient temperature.

Initial: JP

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: ✓ No (Not Intact) : _____ Not Present: _____

Initial: JP

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sampler's name indicated on COC		✓	
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers and volume for analyses requested	✓		
Proper preservation noted on sample label(s)			✓
VOA vial(s) free of headspace.			✓
Tedlar bag(s) free of condensation			✓

Initial: JP

COMMENTS:

Calscience
Environmental
Laboratories, Inc.

April 19, 2007

Joel Kiff
Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Subject: **Calscience Work Order No.: 07-04-0949**
Client Reference: Crystal Creamery

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 4/13/2007 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical	Date Received:	04/13/07
2795 2nd Street, Suite 300	Work Order No:	07-04-0949
Davis, CA 95616-6593	Preparation:	EPA 3050B / EPA 7471A Total
	Method:	EPA 6010B / EPA 7471A
	Units:	mg/kg

Project: Crystal Creamery

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
B8-3	**07-04-0949-1**	**04/11/07**	**Solid**	**ICP 5300**	**04/13/07**	**04/17/07**	**070413L02**

Comment(s): -Mercury was analyzed on 4/13/2007 2:01:48 PM with batch 070413L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	8.64	0.750	1		Molybdenum	ND	0.250	1	
Barium	133	0.500	1		Nickel	52.9	0.250	1	
Beryllium	0.426	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	42.0	0.250	1		Thallium	ND	0.750	1	
Cobalt	14.0	0.250	1		Vanadium	42.6	0.250	1	
Copper	32.3	0.500	1		Zinc	52.0	1.00	1	
Lead	9.43	0.500	1						

B9-3	**07-04-0949-2**	**04/11/07**	**Solid**	**ICP 5300**	**04/13/07**	**04/17/07**	**070413L02**

Comment(s): -Mercury was analyzed on 4/13/2007 2:04:04 PM with batch 070413L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	ND	0.0835	1	
Arsenic	8.42	0.750	1		Molybdenum	0.386	0.250	1	
Barium	147	0.500	1		Nickel	50.2	0.250	1	
Beryllium	0.438	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	41.5	0.250	1		Thallium	ND	0.750	1	
Cobalt	13.7	0.250	1		Vanadium	42.6	0.250	1	
Copper	32.7	0.500	1		Zinc	52.6	1.00	1	
Lead	6.81	0.500	1						

Method Blank	**099-04-007-4,556**	**N/A**	**Solid**	**Mercury**	**04/13/07**	**04/13/07**	**070413L03**

Parameter	Result	RL	DF	Qual
Mercury	ND	0.0835	1	

Method Blank	**097-01-002-9,135**	**N/A**	**Solid**	**ICP 5300**	**04/13/07**	**04/13/07**	**070413L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Lead	ND	0.500	1	
Arsenic	ND	0.750	1		Molybdenum	ND	0.250	1	
Barium	ND	0.500	1		Nickel	ND	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	ND	0.250	1		Thallium	ND	0.750	1	
Cobalt	ND	0.250	1		Vanadium	ND	0.250	1	
Copper	ND	0.500	1		Zinc	ND	1.00	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 04/13/07
Work Order No: 07-04-0949
Preparation: EPA 3545
Method: EPA 8082
Units: ug/kg

Project: Crystal Creamery

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
B8-3	**07-04-0949-1**	**04/11/07**	**Solid**	**GC 7**	**04/13/07**	**04/13/07**	**070413L08**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	98	50-130			2,4,5,6-Tetrachloro-m-Xylene	74	50-130		

Method Blank	099-12-535-11	N/A	Solid	GC 7	04/13/07	04/13/07	070413L08

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	121	50-130			2,4,5,6-Tetrachloro-m-Xylene	102	50-130		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 04/13/07
Work Order No: 07-04-0949
Preparation: EPA 3050B
Method: EPA 6010B

Project Crystal Creamery

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
07-04-0918-7	Solid	ICP 5300	04/13/07	04/17/07	070413S02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	32	30	50-115	5	0-20	3
Arsenic	95	93	75-125	2	0-20	
Barium	125	116	75-125	5	0-20	
Beryllium	102	100	75-125	2	0-20	
Cadmium	102	100	75-125	2	0-20	
Chromium	111	107	75-125	3	0-20	
Cobalt	108	121	75-125	9	0-20	
Copper	104	103	75-125	1	0-20	
Lead	99	98	75-125	1	0-20	
Molybdenum	86	84	75-125	3	0-20	
Nickel	108	106	75-125	1	0-20	
Selenium	69	72	75-125	3	0-20	3
Silver	102	104	75-125	2	0-20	
Thallium	89	91	75-125	2	0-20	
Vanadium	99	98	75-125	0	0-20	
Zinc	125	115	75-125	6	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 04/13/07
Work Order No: 07-04-0949
Preparation: EPA 7471A Total
Method: EPA 7471A

Project Crystal Creamery

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
07-04-0918-7	**Solid**	**Mercury**	**04/13/07**	**04/13/07**	**070413S03**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	95	95	84-138	0	0-7	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 04/13/07
Work Order No: 07-04-0949
Preparation: EPA 3545
Method: EPA 8082

Project Crystal Creamery

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
07-04-0540-29	Solid	GC 7	04/13/07	04/14/07	070413S08

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Aroclor-1260	128	114	50-135	12	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: N/A
Work Order No: 07-04-0949
Preparation: EPA 3050B
Method: EPA 6010B

Project: Crystal Creamery

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-01-002-9,135	Solid	ICP 5300	04/13/07	070412-I-11	070413L02

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Antimony	25.0	25.2	101	80-120	
Arsenic	25.0	24.1	96	80-120	
Barium	25.0	25.4	102	80-120	
Beryllium	25.0	24.5	98	80-120	
Cadmium	25.0	25.3	101	80-120	
Chromium	25.0	25.6	103	80-120	
Cobalt	25.0	26.6	107	80-120	
Copper	25.0	24.3	97	80-120	
Lead	25.0	25.8	103	80-120	
Molybdenum	25.0	25.4	102	80-120	
Nickel	25.0	27.2	109	80-120	
Selenium	25.0	22.9	91	80-120	
Silver	12.5	12.3	98	80-120	
Thallium	25.0	27.7	111	80-120	
Vanadium	25.0	24.5	98	80-120	
Zinc	25.0	26.9	107	80-120	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: N/A
Work Order No: 07-04-0949
Preparation: EPA 7471A Total
Method: EPA 7471A

Project: Crystal Creamery

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-007-4,556	Solid	Mercury	04/13/07	04/13/07	070413L03

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	104	102	87-117	2	0-3	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: N/A
Work Order No: 07-04-0949
Preparation: EPA 3545
Method: EPA 8082

Project: Crystal Creamery

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-535-11	Solid	GC 7	04/13/07	04/13/07	070413L08

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Aroclor-1260	106	108	50-135	2	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 07-04-0949

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike or Matrix Spike Duplicate compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

KIFF Analytical LLC

2795 Second Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4808

Cal Science Environmental
7440 Lincoln Way
Garden Grove, CA 92841
714-895-5494

Lab No. 0949

Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF to): Christie Dumas	EDF Report? ___ Yes _X_No
Company/Address: Kiff Analytical, LLC	Recommended but not mandatory to complete this section:
Phone No.:	FAX No.:
Project Number: 7528.03	P.O. No.: 55902
Project Name: Crystal Creamery	E-mail address: inbox@kiffanalytical.com
Project Address:	

Sample Designation	Sampling Date	Sampling Time	Container: VOA	Poly	Sleeve	Amber	Glass Jar	Preservative: HNO_3	H_2SO_4	$Na_2S_2O_3$	$ZnAc_2$ & NaOH	NONE	Matrix: WATER	SOIL	Air	Analysis Request: CAM 17 Metals (ICP)	PCBs by EPA 8082	Date due: April 19, 2007	For Lab Use Only
B8-3	04/11/07	15:45					1					1		X		X	X	X	
B9-3	04/11/07	15:50					1					1		X		X		X	

Relinquished by: KIFF Analytical	Date 041207	Time 1900	Received by:	Remarks:
Relinquished by:	Date	Time	Received by:	
Relinquished by:	Date 4/13/07	Time 0900	Received by Laboratory:	Bill to: Accounts Payable

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 07 - 04 - 0949

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: Kiff DATE: 4/13/07

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
_____ Ambient temperature.
_____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

4.0 °C Temperature blank.
_____ °C IR thermometer.
_____ Ambient temperature.

Initial: JP

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: ✓ No (Not Intact) : _____ Not Present: _____

Initial: JP

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sampler's name indicated on COC		✓	
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers and volume for analyses requested	✓		
Proper preservation noted on sample label(s)			✓
VOA vial(s) free of headspace.			✓
Tedlar bag(s) free of condensation			✓

Initial: JP

COMMENTS:

WALLACE - KUHL & ASSOCIATES INC.
3251 Beacon Blvd.
West Sacramento, CA 95691
Tel: 916.372.1434
Fax: 916.372.2565

Lab No. 55902

Page 1 of 3

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Scott Armstrong	**California EDF Report?** ☐ Yes ☑ No
Company / Address: Wallace-Kuhl & Associates, 3251 Beacon Blvd, West Sacramento, CA 95691	Recommended but not mandatory to complete this section: **Sampling Company Log Code:**
Phone No.: (916) 372-1434 **Fax No.:** (916) 290-5429	**Global ID:**
Project Number: 7528.03 **P.O. No.:**	**EDF Deliverable To (Email Address):**
Project Name: Crystal Creamery	**Sampler Signature:**
Project Address: 1013 D Street, Sacramento, CA 95814	

Analysis Request

TAT: ○ 12Hr ○ 24 Hr ○ 48Hr ○ 72 Hr ◉ 1 WK ○ 2WK

Sample Designation	Sampling: Date	Sampling: Time	Container: 40 ml VOA	Container: 8oz GLASS JAR	Container: 1L POLY	Container: 500ml POLY	Container: AMBER	Preservative: HCl	Preservative: HNO_3	Preservative: ICE	Preservative: NONE	Matrix: WATER	Matrix: SOIL	VOCs/TPHg	TPHd/TPHmo	CAM 17 METALS (ICP)	PCBs (8082)	For Lab Use Only
B1-GW	4/10/2007	940	4					X				X		X	X			-01
B2-GW	4/10/2007	1240	4					X				X		X	X			-02
B3-GW	4/10/2007	1030	4					X				X		X	X			-03
B4-GW	4/10/2007	1420	4					X				X		X	X			-04
B5-GW	4/10/2007	1205	4					X				X		X	X			-05
B6-GW	4/10/2007	1330	4					X				X		X	X			-06
B10-GW	4/10/2007	1405	4					X				X		X	X			-07
B11-GW	4/10/2007	1530	4					X				X		X	X			-08
B12-GW	4/10/2007	1635	4					X				X		X	X			-09
B13-GW	4/11/2007	910	5					X				X		X	X			-10

	Date	Time		
Relinquished by: Dayna Cordano WKA	04/12/07	1520	**Received by:**	**Remarks:**
Relinquished by:	**Date**	**Time**	**Received by:**	
Relinquished by:	**Date** 04/12/07	**Time** 1520	**Received by Laboratory:**	**Bill to:**

SAMPLE RECEIPT
Temp °C 4.8 Therm. ID# IR-4
Initial OA Date 04/12/07
Time 1515 Coolant present: (Yes) / No

WALLACE - KUHL & ASSOCIATES INC.
3251 Beacon Blvd.
West Sacramento, CA 95691
Tel: 916.372.1434
Fax: 916.372.2565

Lab No. 55902

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Scott Armstrong	**California EDF Report?** ☐ Yes ☑ No
Company / Address: Wallace-Kuhl & Associates, 3251 Beacon Blvd, West Sacramento, CA 95691	Recommended but not mandatory to complete this section: **Sampling Company Log Code:**
Phone No.: (916) 372-1434 **Fax No.:** (916) 290-5429	**Global ID:**
Project Number: 7528.03 **P.O. No.:**	**EDF Deliverable To (Email Address):**
Project Name: Crystal Creamery	**Sampler Signature:**
Project Address: 1013 D Street, Sacramento, CA 95814	

Analysis Request

TAT: ○ 12Hr ○ 24 Hr ○ 48Hr ○ 72 Hr ◉ 1 WK ○ 2WK

Sample Designation	Sampling: Date	Sampling: Time	Container: 40 ml VOA	Container: 8oz GLASS JAR	Container: 1L POLY	Container: 500ml POLY	Container: AMBER	Preservative: HCl	Preservative: HNO_3	Preservative: ICE	Preservative: NONE	Matrix: WATER	Matrix: SOIL	VOCs/TPHg	TPHd/TPHmo	CAM 17 METALS (ICP)	PCBs (8082)	For Lab Use Only
B16-GW	4/11/2007	1035	5					X				X		X	X			-11
B17-GW	4/11/2007	1240	6					X				X		X	X		X	-12
B18-GW	4/11/2007	1350	5					X				X		X	X			-13
B19-GW	4/11/2007	1700	6					X				X		X	X			-14
B2-12	4/10/2007	1105		1							X		X	X	X			-15
B3-12	4/10/2007	1020		1							X		X	X	X			-16
B4-10	4/10/2007	1230		1							X		X	X	X			-17
~~B6-10~~	~~4/10/2007~~	~~1315~~		~~1~~							~~X~~		~~X~~					
B7-10	4/11/2007	1525		1							X		X	X	X			-18
B8-3	4/11/2007	1545		1							X		X	X	X	X	X	-19

Relinquished by: Dayna Coddard WKA	**Date** 04/12/07	**Time** 1520	**Received by:**
Relinquished by:	**Date**	**Time**	**Received by:**
Relinquished by:	**Date** 04/12/07	**Time** 1520	**Received by Laboratory:**

Remarks:

Bill to:

WALLACE - KUHL & ASSOCIATES INC.
3251 Beacon Blvd.
West Sacramento, CA 95691
Tel: 916.372.1434
Fax: 916.372.2565

Lab No. 55902

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Scott Armstrong	**California EDF Report?** ☐ Yes ☑ No
Company / Address: Wallace-Kuhl & Associates, 3251 Beacon Blvd, West Sacramento, CA 95691	Recommended but not mandatory to complete this section: **Sampling Company Log Code:**
Phone No.: (916) 372-1434 **Fax No.:** (916) 290-5429	**Global ID:**
Project Number: 7528.03 **P.O. No.:**	**EDF Deliverable To (Email Address):**
Project Name: Crystal Creamery	**Sampler Signature:**
Project Address: 1013 D Street, Sacramento, CA 95814	

Analysis Request

TAT: ○ 12Hr ○ 24 Hr ○ 48Hr ○ 72 Hr ◉ 1 WK ○ 2WK

Sample Designation	Sampling: Date	Sampling: Time	Container: 40 ml VOA	Container: 8oz GLASS JAR	Container: 1L POLY	Container: 500ml POLY	Container: AMBER	Preservative: HCl	Preservative: HNO_3	Preservative: ICE	Preservative: NONE	Matrix: WATER	Matrix: SOIL	VOCs/TPHg	TPHd/TPHmo	CAM 17 METALS (ICP)	PCBs (8082)	For Lab Use Only
B9-3	4/11/2007	1550		1							X		X	X		X		-20
B10-11	4/10/2007	1345		1							X		X	X	X			-21
B13-10	4/11/2007	855		1							X		X		— HOLD →			-22
B14-5	4/11/2007	1630		1							X		X	X	X			-23
B15-5	4/11/2007	1640		1							X		X	X	X			-24
B16-10	4/11/2007	1030		1							X		X	X	X			-25
B17-11	4/11/2007	1215		1							X		X	2				-26
B18-11	4/11/2007	1340		1							X		X		— HOLD →			-27
B19-12	4/11/2007	1425		1							X		X	3				-28

Relinquished by:	Dayna Cardoza WKA	**Date** 04/12/07	**Time** 1520	**Received by:**
Relinquished by:		**Date**	**Time**	**Received by:**
Relinquished by:		**Date** 4/12/07	**Time** 1520	**Received by Laboratory:**

Remarks:

Bill to:

KIFF Analytical LLC

Report Number : 56853
Date : 06/14/2007

Arthur Forma
Wallace-Kuhl & Associates
3251 Beacon Boulevard, Suite 200
West Sacramento, CA 95691

Subject : 3 Water Samples
Project Name : CRYSTAL - MERIDIAN
Project Number : 7528.04

Dear Mr. Forma,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Joel Kiff

KIFF Analytical LLC

Report Number : 56853
Date : 06/14/2007

Subject : 3 Water Samples
Project Name : CRYSTAL - MERIDIAN
Project Number : 7528.04

Case Narrative

Samples B20-W, B21-W and B22-W were centrifruged and decanted prior to extraction.

Hydrocarbons reported as TPH as Diesel do not exhibit a typical Diesel chromatographic pattern for samples B20-W, B21-W and B22-W. There are discrete peaks which may or may not be petroleum related.

Approved By: Joel Kiff

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 56853
Date : 06/14/2007

Project Name : **CRYSTAL - MERIDIAN**
Project Number : **7528.04**

Sample : **B20-W** Matrix : Water Lab Number : 56853-01
Sample Date :06/07/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	**120**	50	ug/L	M EPA 8015	06/13/2007
TPH as Motor Oil	**< 100**	100	ug/L	M EPA 8015	06/13/2007
Octacosane (Diesel Surrogate)	106		% Recovery	M EPA 8015	06/13/2007

Sample : **B21-W** Matrix : Water Lab Number : 56853-02
Sample Date :06/07/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	**100**	50	ug/L	M EPA 8015	06/13/2007
TPH as Motor Oil	**< 100**	100	ug/L	M EPA 8015	06/13/2007
Octacosane (Diesel Surrogate)	109		% Recovery	M EPA 8015	06/13/2007

Sample : **B22-W** Matrix : Water Lab Number : 56853-03
Sample Date :06/07/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	**89**	50	ug/L	M EPA 8015	06/13/2007
TPH as Motor Oil	**< 100**	100	ug/L	M EPA 8015	06/13/2007
Octacosane (Diesel Surrogate)	110		% Recovery	M EPA 8015	06/13/2007

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

Report Number : 56853

Date : 06/14/2007

QC Report : Method Blank Data

Project Name : **CRYSTAL - MERIDIAN**

Project Number : **7528.04**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	< 50	50	ug/L	M EPA 8015	06/12/2007
TPH as Motor Oil	< 100	100	ug/L	M EPA 8015	06/12/2007
Octacosane (Diesel Surrogate)	116		%	M EPA 8015	06/12/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 56853

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 06/14/2007

Project Name : **CRYSTAL - MERIDIAN**

Project Number : **7528.04**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
TPH as Diesel	Blank	<50	1000	1000	913	926	ug/L	M EPA 8015	6/12/07	91.3	92.6	1.42	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

KIFF ANALYTICAL LLC

2795 2nd Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4808

Lab No. 56853 Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): ARTHUR FORMA

Company/Address: WKA / 3251 BEACON BLVD, W. SACTO

Phone No.: 916 3721434 FAX No.: 916 2905429

Project Number: 7528.04 P.O. No:

Project Name: CRYSTAL - MERIDIAN

Project Address: 1013 D STREET

California EDF Report? ☐ Yes ☐ No

Recommended but not mandatory to complete this section:

Sampling Company Log Code:

Global ID:

EDF Deliverable To (Email Address):

Sampler Signature:

Sample Designation	Sampling Date	Sampling Time	Container: 40 ml VOA	Container: SLEEVE	Preservative: HCl	Preservative: HNO_3	Preservative: ICE	Preservative: NONE	Matrix: WATER	Matrix: SOIL	BTEX (8021B)	BTEX/TPH Gas/MTBE (8021B/M8015)	TPH as Diesel (M8015)	TPH as Motor Oil (M8015)	TPH Gas/BTEX/MTBE (8260B)	5 Oxygenates/TPH Gas/BTEX (8260B)	7 Oxygenates/TPH Gas/BTEX (8260B)	5 Oxygenates (8260B)	7 Oxygenates (8260B)	Lead Scav. (1,2 DCA & 1,2 EDB - 8260B)	EPA 8260B (Full List)	Volatile Halocarbons (EPA 8260B)	Lead (7421/239.2) TOTAL (X) W.E.T. (X)	CENTRIFUGE	TAT: 12 hr/24 hr/48 hr/72 hr/1 wk	For Lab Use Only
B20-W	6-7-07	11:30	6				X	X	X				X	X										X	X	01
B21-W	|	1030	5				|	|	|				|	|										|	|	02
B22-W	|	0930	5				|	|	|				|	|										|	|	03

Relinquished by:	Date	Time	Received by:
[signature]	6-7-07	1430	[signature]
[signature]	6/7/07	1605	
	060707	1605	Received by Laboratory: Robby Kiff Analytical

Remarks:
- CENTRIFUGE ALL SAMPLES
- No HCl PRESERVATIVE

Bill to:

SAMPLE RECEIPT
Temp °C 13.6 Therm. ID# IR4
Initial PMH Date 060707
Time 1605 Coolant present: Yes/No

Distribution: White - Lab, Pink - Originator

Forms/gocp121001.fh9

KIFF Analytical LLC

Report Number : 57016
Date : 6/19/2007

Arthur Forma
Wallace-Kuhl & Associates
3251 Beacon Boulevard, Suite 200
West Sacramento, CA 95691

Subject : 3 Water Samples
Project Name : CRYSTAL - MERIDIAN
Project Number : 7528.04

Dear Mr. Forma,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Joel Kiff

KIFF Analytical LLC

Report Number : 57016
Date : 6/19/2007

Project Name : **CRYSTAL - MERIDIAN**
Project Number : **7528.04**

Sample : **MW1** Matrix : Water Lab Number : 57016-01
Sample Date :6/15/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	**< 50**	50	ug/L	M EPA 8015	6/18/2007
TPH as Motor Oil	**< 100**	100	ug/L	M EPA 8015	6/18/2007
Octacosane (Diesel Surrogate)	113		% Recovery	M EPA 8015	6/18/2007

Sample : **MW2** Matrix : Water Lab Number : 57016-02
Sample Date :6/15/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	**< 50**	50	ug/L	M EPA 8015	6/18/2007
TPH as Motor Oil	**< 100**	100	ug/L	M EPA 8015	6/18/2007
Octacosane (Diesel Surrogate)	113		% Recovery	M EPA 8015	6/18/2007

Sample : **MW3** Matrix : Water Lab Number : 57016-03
Sample Date :6/15/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	**< 50**	50	ug/L	M EPA 8015	6/18/2007
TPH as Motor Oil	**< 100**	100	ug/L	M EPA 8015	6/18/2007
Octacosane (Diesel Surrogate)	118		% Recovery	M EPA 8015	6/18/2007

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 57016
Date : 6/19/2007

Sample : **MW1**
Project Name : **CRYSTAL - MERIDIAN**
Project Number : **7528.04** Lab Number : 57016-01 Date Analyzed : 6/19/2007
Matrix : Water Sample Date : 6/15/2007 Analysis Method: EPA 8260B

Parameter	Measured Value	MRL [1]	Units
TPH as Gasoline	< 50	50	ug/L
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L
Tert-Butanol	< 5.0	5.0	ug/L
Methanol	< 50	50	ug/L
Ethanol	< 5.0	5.0	ug/L
Dichlorodifluoromethane	< 0.50	0.50	ug/L
Chloromethane	< 0.50	0.50	ug/L
Vinyl Chloride	< 0.50	0.50	ug/L
Bromomethane	< 20	20	ug/L
Chloroethane	< 0.50	0.50	ug/L
Trichlorofluoromethane	< 0.50	0.50	ug/L
1,1-Dichloroethene	< 0.50	0.50	ug/L
Methylene Chloride	< 5.0	5.0	ug/L
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L
1,1-Dichloroethane	< 0.50	0.50	ug/L
2,2-Dichloropropane	< 0.50	0.50	ug/L
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L
Chloroform	< 0.50	0.50	ug/L
Bromochloromethane	< 0.50	0.50	ug/L
1,1,1-Trichloroethane	< 0.50	0.50	ug/L
1,1-Dichloropropene	< 0.50	0.50	ug/L
1,2-Dichloroethane	< 0.50	0.50	ug/L
Carbon Tetrachloride	< 0.50	0.50	ug/L
Benzene	< 0.50	0.50	ug/L
Trichloroethene	< 0.50	0.50	ug/L
1,2-Dichloropropane	< 0.50	0.50	ug/L
Bromodichloromethane	< 0.50	0.50	ug/L
Dibromomethane	< 0.50	0.50	ug/L
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L
Toluene	< 0.50	0.50	ug/L
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L
1,1,2-Trichloroethane	< 0.50	0.50	ug/L
1,3-Dichloropropane	< 0.50	0.50	ug/L
Tetrachloroethene	< 0.50	0.50	ug/L

Parameter	Measured Value	MRL [1]	Units
Dibromochloromethane	< 0.50	0.50	ug/L
1,2-Dibromoethane	< 0.50	0.50	ug/L
Chlorobenzene	< 0.50	0.50	ug/L
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L
Ethylbenzene	< 0.50	0.50	ug/L
P,M-Xylene	< 1.0	1.0	ug/L
O-Xylene	< 0.50	0.50	ug/L
Styrene	< 0.50	0.50	ug/L
Isopropyl benzene	< 0.50	0.50	ug/L
Bromoform	< 0.50	0.50	ug/L
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L
1,2,3-Trichloropropane	< 0.50	0.50	ug/L
n-Propylbenzene	< 0.50	0.50	ug/L
Bromobenzene	< 0.50	0.50	ug/L
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L
2+4-Chlorotoluene	< 1.0	1.0	ug/L
tert-Butylbenzene	< 0.50	0.50	ug/L
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L
sec-Butylbenzene	< 0.50	0.50	ug/L
p-Isopropyltoluene	< 0.50	0.50	ug/L
1,3-Dichlorobenzene	< 0.50	0.50	ug/L
1,4-Dichlorobenzene	< 0.50	0.50	ug/L
n-Butylbenzene	< 0.50	0.50	ug/L
1,2-Dichlorobenzene	< 0.50	0.50	ug/L
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L
Hexachlorobutadiene	< 0.50	0.50	ug/L
Naphthalene	< 0.50	0.50	ug/L
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L
1,2-Dichloroethane-d4 (Surr)	101		% Recovery
Toluene-d8 (Surr)	98.9		% Recovery
4-Bromofluorobenzene (Surr)	98.4		% Recovery

1) MRL = Method reporting limit
2) MRL raised due to interference

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 57016
Date : 6/19/2007

Sample : **MW2**
Project Name : **CRYSTAL - MERIDIAN**
Project Number : **7528.04** Lab Number : 57016-02 Date Analyzed : 6/16/2007
Matrix : Water Sample Date : 6/15/2007 Analysis Method: EPA 8260B

Parameter	Measured Value	MRL [1]	Units
TPH as Gasoline	< 50	50	ug/L
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L
Tert-Butanol	< 5.0	5.0	ug/L
Methanol	< 50	50	ug/L
Ethanol	< 5.0	5.0	ug/L
Dichlorodifluoromethane	< 0.50	0.50	ug/L
Chloromethane	< 0.50	0.50	ug/L
Vinyl Chloride	< 0.50	0.50	ug/L
Bromomethane	< 20	20	ug/L
Chloroethane	< 0.50	0.50	ug/L
Trichlorofluoromethane	< 0.50	0.50	ug/L
1,1-Dichloroethene	< 0.50	0.50	ug/L
Methylene Chloride	< 5.0	5.0	ug/L
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L
1,1-Dichloroethane	< 0.50	0.50	ug/L
2,2-Dichloropropane	< 0.50	0.50	ug/L
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L
Chloroform	< 0.50	0.50	ug/L
Bromochloromethane	< 0.50	0.50	ug/L
1,1,1-Trichloroethane	< 0.50	0.50	ug/L
1,1-Dichloropropene	< 0.50	0.50	ug/L
1,2-Dichloroethane	< 0.50	0.50	ug/L
Carbon Tetrachloride	< 0.50	0.50	ug/L
Benzene	< 0.50	0.50	ug/L
Trichloroethene	< 0.50	0.50	ug/L
1,2-Dichloropropane	< 0.50	0.50	ug/L
Bromodichloromethane	< 0.50	0.50	ug/L
Dibromomethane	< 0.50	0.50	ug/L
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L
Toluene	< 0.50	0.50	ug/L
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L
1,1,2-Trichloroethane	< 0.50	0.50	ug/L
1,3-Dichloropropane	< 0.50	0.50	ug/L
Tetrachloroethene	< 0.50	0.50	ug/L

Parameter	Measured Value	MRL [1]	Units
Dibromochloromethane	< 0.50	0.50	ug/L
1,2-Dibromoethane	< 0.50	0.50	ug/L
Chlorobenzene	< 0.50	0.50	ug/L
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L
Ethylbenzene	< 0.50	0.50	ug/L
P,M-Xylene	< 1.0	1.0	ug/L
O-Xylene	< 0.50	0.50	ug/L
Styrene	< 0.50	0.50	ug/L
Isopropyl benzene	< 0.50	0.50	ug/L
Bromoform	< 0.50	0.50	ug/L
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L
1,2,3-Trichloropropane	< 0.50	0.50	ug/L
n-Propylbenzene	< 0.50	0.50	ug/L
Bromobenzene	< 0.50	0.50	ug/L
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L
2+4-Chlorotoluene	< 1.0	1.0	ug/L
tert-Butylbenzene	< 0.50	0.50	ug/L
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L
sec-Butylbenzene	< 0.50	0.50	ug/L
p-Isopropyltoluene	< 0.50	0.50	ug/L
1,3-Dichlorobenzene	< 0.50	0.50	ug/L
1,4-Dichlorobenzene	< 0.50	0.50	ug/L
n-Butylbenzene	< 0.50	0.50	ug/L
1,2-Dichlorobenzene	< 0.50	0.50	ug/L
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L
Hexachlorobutadiene	< 0.50	0.50	ug/L
Naphthalene	< 0.50	0.50	ug/L
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L
1,2-Dichloroethane-d4 (Surr)	102		% Recovery
Toluene-d8 (Surr)	99.3		% Recovery
4-Bromofluorobenzene (Surr)	98.4		% Recovery

1) MRL = Method reporting limit
2) MRL raised due to interference

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 57016
Date : 6/19/2007

Sample : **MW3**
Project Name : **CRYSTAL - MERIDIAN**
Project Number : **7528.04** Lab Number : 57016-03 Date Analyzed : 6/16/2007
Matrix : Water Sample Date : 6/15/2007 Analysis Method: EPA 8260B

Parameter	Measured Value	MRL [1]	Units
TPH as Gasoline	< 50	50	ug/L
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L
Tert-Butanol	< 5.0	5.0	ug/L
Methanol	< 50	50	ug/L
Ethanol	< 5.0	5.0	ug/L
Dichlorodifluoromethane	< 0.50	0.50	ug/L
Chloromethane	< 0.50	0.50	ug/L
Vinyl Chloride	< 0.50	0.50	ug/L
Bromomethane	< 20	20	ug/L
Chloroethane	< 0.50	0.50	ug/L
Trichlorofluoromethane	< 0.50	0.50	ug/L
1,1-Dichloroethene	< 0.50	0.50	ug/L
Methylene Chloride	< 5.0	5.0	ug/L
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L
1,1-Dichloroethane	< 0.50	0.50	ug/L
2,2-Dichloropropane	< 0.50	0.50	ug/L
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L
Chloroform	< 0.50	0.50	ug/L
Bromochloromethane	< 0.50	0.50	ug/L
1,1,1-Trichloroethane	< 0.50	0.50	ug/L
1,1-Dichloropropene	< 0.50	0.50	ug/L
1,2-Dichloroethane	< 0.50	0.50	ug/L
Carbon Tetrachloride	< 0.50	0.50	ug/L
Benzene	< 0.50	0.50	ug/L
Trichloroethene	< 0.50	0.50	ug/L
1,2-Dichloropropane	< 0.50	0.50	ug/L
Bromodichloromethane	< 0.50	0.50	ug/L
Dibromomethane	< 0.50	0.50	ug/L
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L
Toluene	< 0.50	0.50	ug/L
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L
1,1,2-Trichloroethane	< 0.50	0.50	ug/L
1,3-Dichloropropane	< 0.50	0.50	ug/L
Tetrachloroethene	< 0.50	0.50	ug/L

Parameter	Measured Value	MRL [1]	Units
Dibromochloromethane	< 0.50	0.50	ug/L
1,2-Dibromoethane	< 0.50	0.50	ug/L
Chlorobenzene	< 0.50	0.50	ug/L
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L
Ethylbenzene	< 0.50	0.50	ug/L
P,M-Xylene	< 1.0	1.0	ug/L
O-Xylene	< 0.50	0.50	ug/L
Styrene	< 0.50	0.50	ug/L
Isopropyl benzene	< 0.50	0.50	ug/L
Bromoform	< 0.50	0.50	ug/L
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L
1,2,3-Trichloropropane	< 0.50	0.50	ug/L
n-Propylbenzene	< 0.50	0.50	ug/L
Bromobenzene	< 0.50	0.50	ug/L
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L
2+4-Chlorotoluene	< 1.0	1.0	ug/L
tert-Butylbenzene	< 0.50	0.50	ug/L
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L
sec-Butylbenzene	< 0.50	0.50	ug/L
p-Isopropyltoluene	< 0.50	0.50	ug/L
1,3-Dichlorobenzene	< 0.50	0.50	ug/L
1,4-Dichlorobenzene	< 0.50	0.50	ug/L
n-Butylbenzene	< 0.50	0.50	ug/L
1,2-Dichlorobenzene	< 0.50	0.50	ug/L
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L
Hexachlorobutadiene	< 0.50	0.50	ug/L
Naphthalene	< 0.50	0.50	ug/L
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L
1,2-Dichloroethane-d4 (Surr)	101		% Recovery
Toluene-d8 (Surr)	99.5		% Recovery
4-Bromofluorobenzene (Surr)	99.4		% Recovery

1) MRL = Method reporting limit
2) MRL raised due to interference

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

Report Number : 57016

Date : 6/19/2007

QC Report : Method Blank Data

Project Name : **CRYSTAL - MERIDIAN**

Project Number : **7528.04**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	< 50	50	ug/L	M EPA 8015	6/18/2007
TPH as Motor Oil	< 100	100	ug/L	M EPA 8015	6/18/2007
Octacosane (Diesel Surrogate)	110		%	M EPA 8015	6/18/2007
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	6/16/2007
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	6/16/2007
Methanol	< 50	50	ug/L	EPA 8260B	6/16/2007
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	6/16/2007
Dichlorodifluoromethane	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007
Chloromethane	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007
Vinyl Chloride	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007
Bromomethane	< 20	20	ug/L	EPA 8260B	6/16/2007
Chloroethane	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007
Trichlorofluoromethane	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007
1,1-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007
Methylene Chloride	< 5.0	5.0	ug/L	EPA 8260B	6/16/2007
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007
1,1-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007
2,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007
Chloroform	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007
Bromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007
1,1-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007
Carbon Tetrachloride	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007
Benzene	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007
Trichloroethene	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007
1,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007
Bromodichloromethane	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007
Dibromomethane	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007
Toluene	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007
1,3-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007
Tetrachloroethene	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007
Dibromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007
Chlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007
P,M-Xylene	< 1.0	1.0	ug/L	EPA 8260B	6/16/2007
O-Xylene	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007
Styrene	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007
Isopropyl benzene	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007
Bromoform	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007
1,2,3-Trichloropropane	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007
n-Propylbenzene	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007
Bromobenzene	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007
2+4-Chlorotoluene	< 1.0	1.0	ug/L	EPA 8260B	6/16/2007
tert-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007
sec-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007
p-Isopropyltoluene	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007
1,3-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007
1,4-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007
n-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007
1,2-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007
Hexachlorobutadiene	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	6/16/2007

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 57016

Date : 6/19/2007

QC Report : Method Blank Data

Project Name : **CRYSTAL - MERIDIAN**

Project Number : **7528.04**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
1,2-Dichloroethane-d4 (Surr)	103		%	EPA 8260B	6/16/2007
Toluene - d8 (Surr)	99.4		%	EPA 8260B	6/16/2007
4-Bromofluorobenzene (Surr)	99.5		%	EPA 8260B	6/16/2007
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	6/18/2007
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	6/18/2007
Methanol	< 50	50	ug/L	EPA 8260B	6/18/2007
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	6/18/2007
Dichlorodifluoromethane	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007
Chloromethane	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007
Vinyl Chloride	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007
Bromomethane	< 20	20	ug/L	EPA 8260B	6/18/2007
Chloroethane	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007
Trichlorofluoromethane	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007
1,1-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007
Methylene Chloride	< 5.0	5.0	ug/L	EPA 8260B	6/18/2007
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007
1,1-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007
2,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007
Chloroform	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007
Bromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007
1,1-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007
Carbon Tetrachloride	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007
Benzene	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007
Trichloroethene	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007
1,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007
Bromodichloromethane	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007
Dibromomethane	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007
Toluene	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007
1,3-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007
Tetrachloroethene	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007
Dibromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007
Chlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007
P,M-Xylene	< 1.0	1.0	ug/L	EPA 8260B	6/18/2007
O-Xylene	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007
Styrene	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007
Isopropyl benzene	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007
Bromoform	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007
1,2,3-Trichloropropane	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007
n-Propylbenzene	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007
Bromobenzene	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007
2+4-Chlorotoluene	< 1.0	1.0	ug/L	EPA 8260B	6/18/2007
tert-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007
sec-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007
p-Isopropyltoluene	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007
1,3-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007
1,4-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007
n-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007
1,2-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007
Hexachlorobutadiene	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	6/18/2007

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 57016

Date : 6/19/2007

QC Report : Method Blank Data

Project Name : **CRYSTAL - MERIDIAN**

Project Number : **7528.04**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
1,2-Dichloroethane-d4 (Surr)	98.5		%	EPA 8260B	6/18/2007
Toluene - d8 (Surr)	98.0		%	EPA 8260B	6/18/2007
4-Bromofluorobenzene (Surr)	99.6		%	EPA 8260B	6/18/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Approved By: Joel Kiff

QC Report : Matrix Spike/ Matrix Spike Duplicate

Report Number : 57016

Date : 6/19/2007

Project Name : **CRYSTAL - MERIDIAN**

Project Number : **7528.04**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
TPH as Diesel	Blank	<50	1000	1000	1140	1200	ug/L	M EPA 8015	6/18/07	114	120	4.87	70-130	25
1,1-Dichloroethane	56997-03	<0.50	40.0	40.0	40.7	39.8	ug/L	EPA 8260B	6/16/07	102	99.4	2.31	70-130	25
Benzene	56997-03	<0.50	40.0	40.0	41.8	40.8	ug/L	EPA 8260B	6/16/07	104	102	2.40	70-130	25
1,2-Dichloroethane	56997-03	<0.50	40.0	40.0	41.8	40.8	ug/L	EPA 8260B	6/16/07	104	102	2.43	70-130	25
Toluene	56997-03	<0.50	40.0	40.0	42.4	41.4	ug/L	EPA 8260B	6/16/07	106	103	2.45	70-130	25
Chlorobenzene	56997-03	<0.50	40.0	40.0	41.3	40.7	ug/L	EPA 8260B	6/16/07	103	102	1.50	70-130	25
Tert-Butanol	56997-03	<5.0	200	200	209	207	ug/L	EPA 8260B	6/16/07	105	103	1.22	70-130	25
Methyl-t-Butyl Ether	56997-03	4.2	40.0	40.0	45.8	44.7	ug/L	EPA 8260B	6/16/07	104	101	2.68	70-130	25
1,1-Dichloroethane	57044-02	<0.50	40.0	40.0	38.6	37.6	ug/L	EPA 8260B	6/18/07	96.6	94.0	2.81	70-130	25
Benzene	57044-02	<0.50	40.0	40.0	40.2	39.5	ug/L	EPA 8260B	6/18/07	100	98.6	1.94	70-130	25
1,2-Dichloroethane	57044-02	<0.50	40.0	40.0	40.0	39.0	ug/L	EPA 8260B	6/18/07	100	97.5	2.56	70-130	25
Toluene	57044-02	<0.50	40.0	40.0	40.8	39.3	ug/L	EPA 8260B	6/18/07	102	98.3	3.74	70-130	25
Chlorobenzene	57044-02	<0.50	40.0	40.0	40.1	38.9	ug/L	EPA 8260B	6/18/07	100	97.3	2.96	70-130	25
Tert-Butanol	57044-02	130	200	200	340	335	ug/L	EPA 8260B	6/18/07	106	104	2.34	70-130	25
Methyl-t-Butyl Ether	57044-02	30	40.0	40.0	69.7	69.1	ug/L	EPA 8260B	6/18/07	99.2	97.9	1.41	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 57016

QC Report : Laboratory Control Sample (LCS)

Date : 6/19/2007

Project Name : **CRYSTAL - MERIDIAN**

Project Number : **7528.04**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
1,1-Dichloroethane	40.0	ug/L	EPA 8260B	6/16/07	99.0	70-130
Benzene	40.0	ug/L	EPA 8260B	6/16/07	101	70-130
1,2-Dichloroethane	40.0	ug/L	EPA 8260B	6/16/07	101	70-130
Toluene	40.0	ug/L	EPA 8260B	6/16/07	103	70-130
Chlorobenzene	40.0	ug/L	EPA 8260B	6/16/07	101	70-130
Tert-Butanol	200	ug/L	EPA 8260B	6/16/07	102	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	6/16/07	102	70-130
1,1-Dichloroethane	40.0	ug/L	EPA 8260B	6/18/07	97.2	70-130
Benzene	40.0	ug/L	EPA 8260B	6/18/07	99.7	70-130
1,2-Dichloroethane	40.0	ug/L	EPA 8260B	6/18/07	99.2	70-130
Toluene	40.0	ug/L	EPA 8260B	6/18/07	101	70-130
Chlorobenzene	40.0	ug/L	EPA 8260B	6/18/07	97.9	70-130
Tert-Butanol	200	ug/L	EPA 8260B	6/18/07	102	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	6/18/07	99.0	70-130

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Calscience
Environmental
Laboratories, Inc.

June 22, 2007

Joel Kiff
Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Subject: **Calscience Work Order No.: 07-06-1278**
Client Reference: CRYSTAL - MERIDIAN

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 6/16/2007 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Amanda Porter

Calscience Environmental
Laboratories, Inc.
Amanda Porter
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 06/16/07
Work Order No: 07-06-1278
Preparation: EPA 3510C
Method: EPA 8310
Units: ug/L

Project: CRYSTAL - MERIDIAN

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
MW1	07-06-1278-1	06/15/07	Aqueous	HPLC 6	06/18/07	06/20/07	070618L07

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	1.0	1		Benzo (a) Anthracene	ND	1.0	1	
Acenaphthylene	ND	1.0	1		Chrysene	ND	1.0	1	
Acenaphthene	ND	1.0	1		Benzo (b) Fluoranthene	ND	1.0	1	
Fluorene	ND	1.0	1		Benzo (k) Fluoranthene	ND	1.0	1	
Phenanthrene	ND	1.0	1		Benzo (a) Pyrene	ND	0.20	1	
Anthracene	ND	1.0	1		Dibenz (a,h) Anthracene	ND	1.0	1	
Fluoranthene	ND	1.0	1		Benzo (g,h,i) Perylene	ND	1.0	1	
Pyrene	ND	1.0	1		Indeno (1,2,3-c,d) Pyrene	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	40	40-160	

MW2	07-06-1278-2	06/15/07	Aqueous	HPLC 6	06/18/07	06/20/07	070618L07

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	1.0	1		Benzo (a) Anthracene	ND	1.0	1	
Acenaphthylene	ND	1.0	1		Chrysene	ND	1.0	1	
Acenaphthene	ND	1.0	1		Benzo (b) Fluoranthene	ND	1.0	1	
Fluorene	ND	1.0	1		Benzo (k) Fluoranthene	ND	1.0	1	
Phenanthrene	ND	1.0	1		Benzo (a) Pyrene	ND	0.20	1	
Anthracene	ND	1.0	1		Dibenz (a,h) Anthracene	ND	1.0	1	
Fluoranthene	ND	1.0	1		Benzo (g,h,i) Perylene	ND	1.0	1	
Pyrene	ND	1.0	1		Indeno (1,2,3-c,d) Pyrene	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	43	40-160	

MW3	07-06-1278-3	06/15/07	Aqueous	HPLC 6	06/18/07	06/20/07	070618L07

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	1.0	1		Benzo (a) Anthracene	ND	1.0	1	
Acenaphthylene	ND	1.0	1		Chrysene	ND	1.0	1	
Acenaphthene	ND	1.0	1		Benzo (b) Fluoranthene	ND	1.0	1	
Fluorene	ND	1.0	1		Benzo (k) Fluoranthene	ND	1.0	1	
Phenanthrene	ND	1.0	1		Benzo (a) Pyrene	ND	0.20	1	
Anthracene	ND	1.0	1		Dibenz (a,h) Anthracene	ND	1.0	1	
Fluoranthene	ND	1.0	1		Benzo (g,h,i) Perylene	ND	1.0	1	
Pyrene	ND	1.0	1		Indeno (1,2,3-c,d) Pyrene	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	41	40-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 06/16/07
Work Order No: 07-06-1278
Preparation: EPA 3510C
Method: EPA 8310
Units: ug/L

Project: CRYSTAL - MERIDIAN

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-07-003-961**	**N/A**	**Aqueous**	**HPLC 6**	**06/18/07**	**06/20/07**	**070618L07**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	1.0	1		Benzo (a) Anthracene	ND	1.0	1	
Acenaphthylene	ND	1.0	1		Chrysene	ND	1.0	1	
Acenaphthene	ND	1.0	1		Benzo (b) Fluoranthene	ND	1.0	1	
Fluorene	ND	1.0	1		Benzo (k) Fluoranthene	ND	1.0	1	
Phenanthrene	ND	1.0	1		Benzo (a) Pyrene	ND	0.20	1	
Anthracene	ND	1.0	1		Dibenz (a,h) Anthracene	ND	1.0	1	
Fluoranthene	ND	1.0	1		Benzo (g,h,i) Perylene	ND	1.0	1	
Pyrene	ND	1.0	1		Indeno (1,2,3-c,d) Pyrene	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	47	40-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Kiff Analytical		Date Received:	N/A
2795 2nd Street, Suite 300		Work Order No:	07-06-1278
Davis, CA 95616-6593		Preparation:	EPA 3510C
		Method:	EPA 8310

Project: CRYSTAL - MERIDIAN

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-07-003-961	Aqueous	HPLC 6	06/18/07	06/20/07	070618L07

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Naphthalene	109	107	40-160	1	0-20	
Acenaphthylene	107	103	40-160	4	0-20	
Acenaphthene	104	111	40-160	7	0-20	
Fluorene	107	107	40-160	0	0-20	
Phenanthrene	103	103	40-160	0	0-20	
Anthracene	109	107	40-160	2	0-20	
Fluoranthene	113	113	40-160	0	0-20	
Pyrene	115	116	40-160	1	0-20	
Benzo (a) Anthracene	112	108	40-160	4	0-20	
Chrysene	118	112	40-160	5	0-20	
Benzo (b) Fluoranthene	114	112	40-160	2	0-20	
Benzo (k) Fluoranthene	114	108	40-160	5	0-20	
Benzo (a) Pyrene	117	113	40-160	4	0-20	
Dibenz (a,h) Anthracene	117	111	40-160	5	0-20	
Benzo (g,h,i) Perylene	111	108	40-160	3	0-20	
Indeno (1,2,3-c,d) Pyrene	112	108	40-160	3	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 07-06-1278

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike or Matrix Spike Duplicate compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

1278

KIFF Analytical LLC

2795 Second Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4808

Cal Science Environmental
7440 Lincoln Way
Garden Grove, CA 92841
714-895-5494

07-06-1278

Lab No. _____ Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF to): Christie Dumas

EDF Report? __Yes _X_No

Company/Address: Kiff Analytical

Recommended but not mandatory to complete this section:

Sampling Company Log Code:

Global ID:

Phone No.: FAX No.:

EDF Deliverable to (Email Address):

Project Number: 7528.04 P.O. No.: 57016

Project Name: CRYSTAL - MERIDIAN

E-mail address: inbox@kiffanalytical.com

Project Address:

Sample Designation	Sampling Date	Sampling Time	Container: VOA	Poly	Sleeve	Amber	Tedlar	Preservative: HNO_3	H_2SO_4	$Na_2S_2O_3$	$ZnAc_2$ & NaOH	NONE	Matrix: WATER	SOIL	Air	Analysis Request: PAHs by EPA 8310	Date due: June 22, 2007	For Lab Use Only
MW1	06/15/07	09:30				2				2			X			X	X	
MW2	06/15/07	10:00				2				2			X			X	X	
MW3	06/15/07	10:30				2				2			X			X	X	

Relinquished by:	Date	Time	Received by:
Kiff Analytical	06/15	1700	
Relinquished by:	Date	Time	Received by:
Relinquished by: CA overnight	Date 6/16/07	Time 10:30	Received by Laboratory: (CEL)

Remarks:

Bill to: Accounts Payable

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 07 - 06 - 1278

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: KIFF DATE: 6/16/07

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
_____ Ambient temperature.
_____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

4.0 °C Temperature blank.
_____ °C IR thermometer.
_____ Ambient temperature.

Initial: RM

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: ✓ No (Not Intact) : _____ Not Present: _____

Initial: RM

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sampler's name indicated on COC		✓	
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers and volume for analyses requested	✓		
Proper preservation noted on sample label(s)	✓		
VOA vial(s) free of headspace.			✓
Tedlar bag(s) free of condensation			✓

Initial: RM

COMMENTS:

KIFF Analytical LLC

2795 2nd Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4802

SRG # / Lab No. 57016

Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): ARTHUR FORMA
Company / Address: WKA / 3251 BEACON BLVD #200
Phone #: 916 372 1434 Fax #: 916 290 5429
Project #: 7528.04 P.O. #:
Project Name: CRYSTAL - MERIDIAN
Project Address: 1013 D STREET

California EDF Report? ☐ Yes ☒ No
Sampling Company Log Code:
Global ID:
EDF Deliverable To (Email Address):
Sampler Signature:

Sample Designation	Sampling Date	Sampling Time	Container: 40 ml VOA	Container: Sleeve	Container: Poly	Container: Glass	Container: Tedlar	Container: 1L Amber	Preservative: HCl Vials	Preservative: HNO_3	Preservative: None	Preservative: Na_2SO_3 Amber	Matrix: Water	Matrix: Soil	Matrix: Air
MW1	6-15-07	0930	6					2	X			X	X		
MW2	"	1000	1					1	1			1	1		
MW3	"	1030	1					1	1			1	1		

Analysis Request

MTBE (EPA 8260B) per EPA 8021 level @ 5.0 ppb	MTBE (EPA 8260B) @ 0.5 ppb	BTEX (EPA 8260B)	TPH Gas (EPA 8260B)	5 Oxygenates (EPA 8260B)	7 Oxygenates (EPA 8260B)	Lead Scav.(1,2 DCA & 1,2 EDB-EPA 8260B)	Volatile Halocarbons (EPA 8260B)	Volatile Organics Full List (EPA 8260B)	Volatile Organics (EPA 524.2 Drinking Water)	TPH as Diesel (EPA 8015M)	TPH as Motor Oil (EPA 8015M)	Total Lead (EPA 6010)	W.E.T. Lead (STLC)	PAHs 8310			
		X	X		X			X		X	X			X			
		1	1		1			1		1	1			1			
		1	1		1			1		1	1			1			

TAT: ☐ 12 hr ☐ 24 hr ☐ 48 hr ☐ 72 hr ☒ 1 wk

For Lab Use Only: X (01), 1 (02), 1 (03)

Relinquished by:	Date	Time	Received by:
	6.15.07	1100	
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by Laboratory:
	061507	1106	Kiff Analytical

Remarks:

Bill to:

For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time	Therm. ID #	Coolant Present
19.1	JCD	061507	1102	IR-4	(Yes) / No

Distribution: White - Lab; Pink - Originator
Rev: 051805

KIFF Analytical LLC

Report Number : 57383
Date : 7/12/2007

Arthur Forma
Wallace-Kuhl & Associates
3251 Beacon Boulevard, Suite 200
West Sacramento, CA 95691

Subject : 3 Water Samples
Project Name : Crystal-Meridian
Project Number : 7528.03

Dear Mr. Forma,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Joel Kiff

KIFF Analytical LLC

Report Number : 57383
Date : 7/12/2007

Project Name : **Crystal-Meridian**
Project Number : **7528.03**

Sample : **MW-1** Matrix : Water Lab Number : 57383-01
Sample Date :7/6/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	**260**	50	ug/L	M EPA 8015	7/9/2007
(Note: Discrete peaks in Diesel range, atypical for Diesel Fuel.)					
TPH as Motor Oil	**< 100**	100	ug/L	M EPA 8015	7/9/2007
Octacosane (Diesel Surrogate)	108		% Recovery	M EPA 8015	7/9/2007

Sample : **MW-2** Matrix : Water Lab Number : 57383-02
Sample Date :7/6/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	**69**	50	ug/L	M EPA 8015	7/9/2007
(Note: Discrete peaks in Diesel range, atypical for Diesel Fuel.)					
TPH as Motor Oil	**< 100**	100	ug/L	M EPA 8015	7/9/2007
Octacosane (Diesel Surrogate)	123		% Recovery	M EPA 8015	7/9/2007

Sample : **MW-3** Matrix : Water Lab Number : 57383-03
Sample Date :7/6/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	**< 50**	50	ug/L	M EPA 8015	7/12/2007
TPH as Motor Oil	**< 100**	100	ug/L	M EPA 8015	7/12/2007
Octacosane (Diesel Surrogate)	118		% Recovery	M EPA 8015	7/12/2007

Approved By: Joel Kiff

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

KIFF Analytical LLC

Report Number : 57383

Date : 7/12/2007

Sample : **MW-1**

Project Name : **Crystal-Meridian**

Project Number : **7528.03** Lab Number : 57383-01 Date Analyzed : 7/10/2007

Matrix : Water Sample Date : 7/6/2007 Analysis Method: EPA 8260B

Parameter	Measured Value	MRL [1]	Units
TPH as Gasoline	< 50	50	ug/L
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L
Tert-Butanol	< 5.0	5.0	ug/L
Methanol	< 50	50	ug/L
Ethanol	< 5.0	5.0	ug/L
Dichlorodifluoromethane	< 0.50	0.50	ug/L
Chloromethane	< 0.50	0.50	ug/L
Vinyl Chloride	< 0.50	0.50	ug/L
Bromomethane	< 20	20	ug/L
Chloroethane	< 0.50	0.50	ug/L
Trichlorofluoromethane	< 0.50	0.50	ug/L
1,1-Dichloroethene	< 0.50	0.50	ug/L
Methylene Chloride	< 5.0	5.0	ug/L
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L
1,1-Dichloroethane	< 0.50	0.50	ug/L
2,2-Dichloropropane	< 0.50	0.50	ug/L
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L
Chloroform	< 0.50	0.50	ug/L
Bromochloromethane	< 0.50	0.50	ug/L
1,1,1-Trichloroethane	< 0.50	0.50	ug/L
1,1-Dichloropropene	< 0.50	0.50	ug/L
1,2-Dichloroethane	< 0.50	0.50	ug/L
Carbon Tetrachloride	< 0.50	0.50	ug/L
Benzene	< 0.50	0.50	ug/L
Trichloroethene	< 0.50	0.50	ug/L
1,2-Dichloropropane	< 0.50	0.50	ug/L
Bromodichloromethane	< 0.50	0.50	ug/L
Dibromomethane	< 0.50	0.50	ug/L
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L
Toluene	< 0.50	0.50	ug/L
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L
1,1,2-Trichloroethane	< 0.50	0.50	ug/L
1,3-Dichloropropane	< 0.50	0.50	ug/L
Tetrachloroethene	< 0.50	0.50	ug/L

Parameter	Measured Value	MRL [1]	Units
Dibromochloromethane	< 0.50	0.50	ug/L
1,2-Dibromoethane	< 0.50	0.50	ug/L
Chlorobenzene	< 0.50	0.50	ug/L
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L
Ethylbenzene	< 0.50	0.50	ug/L
P,M-Xylene	< 1.0	1.0	ug/L
O-Xylene	< 0.50	0.50	ug/L
Styrene	< 0.50	0.50	ug/L
Isopropyl benzene	< 0.50	0.50	ug/L
Bromoform	< 0.50	0.50	ug/L
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L
1,2,3-Trichloropropane	< 0.50	0.50	ug/L
n-Propylbenzene	< 0.50	0.50	ug/L
Bromobenzene	< 0.50	0.50	ug/L
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L
2+4-Chlorotoluene	< 1.0	1.0	ug/L
tert-Butylbenzene	< 0.50	0.50	ug/L
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L
sec-Butylbenzene	< 0.50	0.50	ug/L
p-Isopropyltoluene	< 0.50	0.50	ug/L
1,3-Dichlorobenzene	< 0.50	0.50	ug/L
1,4-Dichlorobenzene	< 0.50	0.50	ug/L
n-Butylbenzene	< 0.50	0.50	ug/L
1,2-Dichlorobenzene	< 0.50	0.50	ug/L
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L
Hexachlorobutadiene	< 0.50	0.50	ug/L
Naphthalene	< 0.50	0.50	ug/L
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L
1,2-Dichloroethane-d4 (Surr)	102		% Recovery
Toluene-d8 (Surr)	99.9		% Recovery
4-Bromofluorobenzene (Surr)	101		% Recovery

1) MRL = Method reporting limit
2) MRL raised due to interference

Approved By: Joel Kiff

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

KIFF Analytical LLC

Report Number : 57383

Date : 7/12/2007

Sample : **MW-2**

Project Name : **Crystal-Meridian**

Project Number : **7528.03** Lab Number : 57383-02 Date Analyzed : 7/10/2007

Matrix : Water Sample Date : 7/6/2007 Analysis Method: EPA 8260B

Parameter	Measured Value	MRL [1]	Units
TPH as Gasoline	< 50	50	ug/L
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L
Tert-Butanol	< 5.0	5.0	ug/L
Methanol	< 50	50	ug/L
Ethanol	< 5.0	5.0	ug/L
Dichlorodifluoromethane	< 0.50	0.50	ug/L
Chloromethane	< 0.50	0.50	ug/L
Vinyl Chloride	< 0.50	0.50	ug/L
Bromomethane	< 20	20	ug/L
Chloroethane	< 0.50	0.50	ug/L
Trichlorofluoromethane	< 0.50	0.50	ug/L
1,1-Dichloroethene	< 0.50	0.50	ug/L
Methylene Chloride	< 5.0	5.0	ug/L
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L
1,1-Dichloroethane	< 0.50	0.50	ug/L
2,2-Dichloropropane	< 0.50	0.50	ug/L
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L
Chloroform	< 0.50	0.50	ug/L
Bromochloromethane	< 0.50	0.50	ug/L
1,1,1-Trichloroethane	< 0.50	0.50	ug/L
1,1-Dichloropropene	< 0.50	0.50	ug/L
1,2-Dichloroethane	< 0.50	0.50	ug/L
Carbon Tetrachloride	< 0.50	0.50	ug/L
Benzene	< 0.50	0.50	ug/L
Trichloroethene	< 0.50	0.50	ug/L
1,2-Dichloropropane	< 0.50	0.50	ug/L
Bromodichloromethane	< 0.50	0.50	ug/L
Dibromomethane	< 0.50	0.50	ug/L
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L
Toluene	< 0.50	0.50	ug/L
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L
1,1,2-Trichloroethane	< 0.50	0.50	ug/L
1,3-Dichloropropane	< 0.50	0.50	ug/L
Tetrachloroethene	< 0.50	0.50	ug/L

Parameter	Measured Value	MRL [1]	Units
Dibromochloromethane	< 0.50	0.50	ug/L
1,2-Dibromoethane	< 0.50	0.50	ug/L
Chlorobenzene	< 0.50	0.50	ug/L
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L
Ethylbenzene	< 0.50	0.50	ug/L
P,M-Xylene	< 1.0	1.0	ug/L
O-Xylene	< 0.50	0.50	ug/L
Styrene	< 0.50	0.50	ug/L
Isopropyl benzene	< 0.50	0.50	ug/L
Bromoform	< 0.50	0.50	ug/L
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L
1,2,3-Trichloropropane	< 0.50	0.50	ug/L
n-Propylbenzene	< 0.50	0.50	ug/L
Bromobenzene	< 0.50	0.50	ug/L
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L
2+4-Chlorotoluene	< 1.0	1.0	ug/L
tert-Butylbenzene	< 0.50	0.50	ug/L
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L
sec-Butylbenzene	< 0.50	0.50	ug/L
p-Isopropyltoluene	< 0.50	0.50	ug/L
1,3-Dichlorobenzene	< 0.50	0.50	ug/L
1,4-Dichlorobenzene	< 0.50	0.50	ug/L
n-Butylbenzene	< 0.50	0.50	ug/L
1,2-Dichlorobenzene	< 0.50	0.50	ug/L
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L
Hexachlorobutadiene	< 0.50	0.50	ug/L
Naphthalene	< 0.50	0.50	ug/L
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L
1,2-Dichloroethane-d4 (Surr)	102		% Recovery
Toluene-d8 (Surr)	100		% Recovery
4-Bromofluorobenzene (Surr)	102		% Recovery

1) MRL = Method reporting limit
2) MRL raised due to interference

Approved By: Joel Kiff

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

KIFF Analytical LLC

Report Number : 57383
Date : 7/12/2007

Sample : **MW-3**
Project Name : **Crystal-Meridian**
Project Number : **7528.03** Lab Number : 57383-03 Date Analyzed : 7/10/2007
Matrix : Water Sample Date : 7/6/2007 Analysis Method: EPA 8260B

Parameter	Measured Value	MRL [1]	Units
TPH as Gasoline	< 50	50	ug/L
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L
Tert-Butanol	< 5.0	5.0	ug/L
Methanol	< 50	50	ug/L
Ethanol	< 5.0	5.0	ug/L
Dichlorodifluoromethane	< 0.50	0.50	ug/L
Chloromethane	< 0.50	0.50	ug/L
Vinyl Chloride	< 0.50	0.50	ug/L
Bromomethane	< 20	20	ug/L
Chloroethane	< 0.50	0.50	ug/L
Trichlorofluoromethane	< 0.50	0.50	ug/L
1,1-Dichloroethene	< 0.50	0.50	ug/L
Methylene Chloride	< 5.0	5.0	ug/L
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L
1,1-Dichloroethane	< 0.50	0.50	ug/L
2,2-Dichloropropane	< 0.50	0.50	ug/L
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L
Chloroform	< 0.50	0.50	ug/L
Bromochloromethane	< 0.50	0.50	ug/L
1,1,1-Trichloroethane	< 0.50	0.50	ug/L
1,1-Dichloropropene	< 0.50	0.50	ug/L
1,2-Dichloroethane	< 0.50	0.50	ug/L
Carbon Tetrachloride	< 0.50	0.50	ug/L
Benzene	< 0.50	0.50	ug/L
Trichloroethene	< 0.50	0.50	ug/L
1,2-Dichloropropane	< 0.50	0.50	ug/L
Bromodichloromethane	< 0.50	0.50	ug/L
Dibromomethane	< 0.50	0.50	ug/L
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L
Toluene	< 0.50	0.50	ug/L
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L
1,1,2-Trichloroethane	< 0.50	0.50	ug/L
1,3-Dichloropropane	< 0.50	0.50	ug/L
Tetrachloroethene	< 0.50	0.50	ug/L

Parameter	Measured Value	MRL [1]	Units
Dibromochloromethane	< 0.50	0.50	ug/L
1,2-Dibromoethane	< 0.50	0.50	ug/L
Chlorobenzene	< 0.50	0.50	ug/L
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L
Ethylbenzene	< 0.50	0.50	ug/L
P,M-Xylene	< 1.0	1.0	ug/L
O-Xylene	< 0.50	0.50	ug/L
Styrene	< 0.50	0.50	ug/L
Isopropyl benzene	< 0.50	0.50	ug/L
Bromoform	< 0.50	0.50	ug/L
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L
1,2,3-Trichloropropane	< 0.50	0.50	ug/L
n-Propylbenzene	< 0.50	0.50	ug/L
Bromobenzene	< 0.50	0.50	ug/L
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L
2+4-Chlorotoluene	< 1.0	1.0	ug/L
tert-Butylbenzene	< 0.50	0.50	ug/L
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L
sec-Butylbenzene	< 0.50	0.50	ug/L
p-Isopropyltoluene	< 0.50	0.50	ug/L
1,3-Dichlorobenzene	< 0.50	0.50	ug/L
1,4-Dichlorobenzene	< 0.50	0.50	ug/L
n-Butylbenzene	< 0.50	0.50	ug/L
1,2-Dichlorobenzene	< 0.50	0.50	ug/L
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L
Hexachlorobutadiene	< 0.50	0.50	ug/L
Naphthalene	< 0.50	0.50	ug/L
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L
1,2-Dichloroethane-d4 (Surr)	104		% Recovery
Toluene-d8 (Surr)	101		% Recovery
4-Bromofluorobenzene (Surr)	101		% Recovery

1) MRL = Method reporting limit
2) MRL raised due to interference

Approved By: Joel Kiff

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 57383

Date : 7/12/2007

QC Report : Method Blank Data

Project Name : **Crystal-Meridian**

Project Number : **7528.03**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	< 50	50	ug/L	M EPA 8015	7/9/2007
TPH as Motor Oil	< 100	100	ug/L	M EPA 8015	7/9/2007
Octacosane (Diesel Surrogate)	122		%	M EPA 8015	7/9/2007
TPH as Diesel	< 50	50	ug/L	M EPA 8015	7/11/2007
TPH as Motor Oil	< 100	100	ug/L	M EPA 8015	7/11/2007
Octacosane (Diesel Surrogate)	113		%	M EPA 8015	7/11/2007
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	7/10/2007
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	7/10/2007
Methanol	< 50	50	ug/L	EPA 8260B	7/10/2007
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	7/10/2007
Dichlorodifluoromethane	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
Chloromethane	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
Vinyl Chloride	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
Bromomethane	< 20	20	ug/L	EPA 8260B	7/10/2007
Chloroethane	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
Trichlorofluoromethane	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
1,1-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
Methylene Chloride	< 5.0	5.0	ug/L	EPA 8260B	7/10/2007
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
1,1-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
2,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
Chloroform	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
Bromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
1,1-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
Carbon Tetrachloride	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
Trichloroethene	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
1,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
Bromodichloromethane	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
Dibromomethane	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
Toluene	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
1,3-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
Tetrachloroethene	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
Dibromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
Chlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
P,M-Xylene	< 1.0	1.0	ug/L	EPA 8260B	7/10/2007
O-Xylene	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
Styrene	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
Isopropyl benzene	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
Bromoform	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
1,2,3-Trichloropropane	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
n-Propylbenzene	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
Bromobenzene	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
2+4-Chlorotoluene	< 1.0	1.0	ug/L	EPA 8260B	7/10/2007
tert-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
sec-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
p-Isopropyltoluene	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
1,3-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
1,4-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
n-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
1,2-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 57383

Date : 7/12/2007

QC Report : Method Blank Data

Project Name : **Crystal-Meridian**

Project Number : **7528.03**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
Hexachlorobutadiene	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	7/10/2007
1,2-Dichloroethane-d4 (Surr)	101		%	EPA 8260B	7/10/2007
4-Bromofluorobenzene (Surr)	101		%	EPA 8260B	7/10/2007
Toluene - d8 (Surr)	99.7		%	EPA 8260B	7/10/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Approved By: Joel Kiff

QC Report : Matrix Spike/ Matrix Spike Duplicate

Report Number : 57383

Date : 7/12/2007

Project Name : **Crystal-Meridian**

Project Number : **7528.03**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
1,1-Dichloroethane	57395-04	<0.50	40.0	40.0	36.9	36.2	ug/L	EPA 8260B	7/9/07	92.4	90.6	1.88	70-130	25
Benzene	57395-04	<0.50	40.0	40.0	39.3	39.0	ug/L	EPA 8260B	7/9/07	98.2	97.4	0.772	70-130	25
1,2-Dichloroethane	57395-04	<0.50	40.0	40.0	39.1	38.2	ug/L	EPA 8260B	7/9/07	97.7	95.4	2.38	70-130	25
Toluene	57395-04	<0.50	40.0	40.0	40.3	39.9	ug/L	EPA 8260B	7/9/07	101	99.8	0.945	70-130	25
Chlorobenzene	57395-04	<0.50	40.0	40.0	39.4	38.5	ug/L	EPA 8260B	7/9/07	98.5	96.3	2.27	70-130	25
Tert-Butanol	57395-04	<5.0	200	200	200	205	ug/L	EPA 8260B	7/9/07	100	102	2.25	70-130	25
Methyl-t-Butyl Ether	57395-04	<0.50	40.0	40.0	38.0	37.1	ug/L	EPA 8260B	7/9/07	95.1	92.7	2.54	70-130	25
TPH as Diesel	Blank	<50	1000	1000	890	913	ug/L	M EPA 8015	7/9/07	89.0	91.3	2.58	70-130	25
TPH as Diesel	Blank	<50	1000	1000	886	928	ug/L	M EPA 8015	7/11/07	88.6	92.8	4.64	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 57383

QC Report : Laboratory Control Sample (LCS)

Date : 7/12/2007

Project Name : **Crystal-Meridian**

Project Number : **7528.03**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
1,1-Dichloroethane	40.0	ug/L	EPA 8260B	7/9/07	98.1	70-130
Benzene	40.0	ug/L	EPA 8260B	7/9/07	102	70-130
1,2-Dichloroethane	40.0	ug/L	EPA 8260B	7/9/07	101	70-130
Toluene	40.0	ug/L	EPA 8260B	7/9/07	105	70-130
Chlorobenzene	40.0	ug/L	EPA 8260B	7/9/07	101	70-130
Tert-Butanol	200	ug/L	EPA 8260B	7/9/07	105	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	7/9/07	102	70-130

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Calscience
Environmental
Laboratories, Inc.

July 13, 2007

Joel Kiff
Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Subject: **Calscience Work Order No.:** **07-07-0451**
Client Reference: **Crystal-Meridian**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 7/7/2007 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Amanda Porter

Calscience Environmental
Laboratories, Inc.
Amanda Porter
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 07/07/07
Work Order No: 07-07-0451
Preparation: EPA 3510C
Method: EPA 8310
Units: ug/L

Project: Crystal-Meridian

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
MW-1	07-07-0451-1	07/06/07	Aqueous	HPLC 5	07/09/07	07/10/07	070709L08

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	1.0	1		Benzo (a) Anthracene	ND	1.0	1	
Acenaphthylene	ND	1.0	1		Chrysene	ND	1.0	1	
Acenaphthene	ND	1.0	1		Benzo (b) Fluoranthene	ND	1.0	1	
Fluorene	ND	1.0	1		Benzo (k) Fluoranthene	ND	1.0	1	
Phenanthrene	ND	1.0	1		Benzo (a) Pyrene	ND	0.20	1	
Anthracene	ND	1.0	1		Dibenz (a,h) Anthracene	ND	1.0	1	
Fluoranthene	ND	1.0	1		Benzo (g,h,i) Perylene	ND	1.0	1	
Pyrene	ND	1.0	1		Indeno (1,2,3-c,d) Pyrene	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	67	40-160	

MW-2	07-07-0451-2	07/06/07	Aqueous	HPLC 5	07/09/07	07/10/07	070709L08

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	1.0	1		Benzo (a) Anthracene	ND	1.0	1	
Acenaphthylene	ND	1.0	1		Chrysene	ND	1.0	1	
Acenaphthene	ND	1.0	1		Benzo (b) Fluoranthene	ND	1.0	1	
Fluorene	ND	1.0	1		Benzo (k) Fluoranthene	ND	1.0	1	
Phenanthrene	ND	1.0	1		Benzo (a) Pyrene	ND	0.20	1	
Anthracene	ND	1.0	1		Dibenz (a,h) Anthracene	ND	1.0	1	
Fluoranthene	ND	1.0	1		Benzo (g,h,i) Perylene	ND	1.0	1	
Pyrene	ND	1.0	1		Indeno (1,2,3-c,d) Pyrene	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	66	40-160	

MW-3	07-07-0451-3	07/06/07	Aqueous	HPLC 5	07/09/07	07/10/07	070709L08

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	1.0	1		Benzo (a) Anthracene	ND	1.0	1	
Acenaphthylene	ND	1.0	1		Chrysene	ND	1.0	1	
Acenaphthene	ND	1.0	1		Benzo (b) Fluoranthene	ND	1.0	1	
Fluorene	ND	1.0	1		Benzo (k) Fluoranthene	ND	1.0	1	
Phenanthrene	ND	1.0	1		Benzo (a) Pyrene	ND	0.20	1	
Anthracene	ND	1.0	1		Dibenz (a,h) Anthracene	ND	1.0	1	
Fluoranthene	ND	1.0	1		Benzo (g,h,i) Perylene	ND	1.0	1	
Pyrene	ND	1.0	1		Indeno (1,2,3-c,d) Pyrene	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	87	40-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 07/07/07
Work Order No: 07-07-0451
Preparation: EPA 3510C
Method: EPA 8310
Units: ug/L

Project: Crystal-Meridian

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-07-003-968**	**N/A**	**Aqueous**	**HPLC 5**	**07/09/07**	**07/09/07**	**070709L08**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	1.0	1		Benzo (a) Anthracene	ND	1.0	1	
Acenaphthylene	ND	1.0	1		Chrysene	ND	1.0	1	
Acenaphthene	ND	1.0	1		Benzo (b) Fluoranthene	ND	1.0	1	
Fluorene	ND	1.0	1		Benzo (k) Fluoranthene	ND	1.0	1	
Phenanthrene	ND	1.0	1		Benzo (a) Pyrene	ND	0.20	1	
Anthracene	ND	1.0	1		Dibenz (a,h) Anthracene	ND	1.0	1	
Fluoranthene	ND	1.0	1		Benzo (g,h,i) Perylene	ND	1.0	1	
Pyrene	ND	1.0	1		Indeno (1,2,3-c,d) Pyrene	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	83	40-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: N/A
Work Order No: 07-07-0451
Preparation: EPA 3510C
Method: EPA 8310

Project: Crystal-Meridian

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-07-003-968	Aqueous	HPLC 5	07/09/07	07/09/07	070709L08

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Naphthalene	94	84	40-160	12	0-20	
Acenaphthylene	87	79	40-160	11	0-20	
Acenaphthene	90	78	40-160	13	0-20	
Fluorene	93	84	40-160	10	0-20	
Phenanthrene	95	88	40-160	7	0-20	
Anthracene	103	96	40-160	7	0-20	
Fluoranthene	93	90	40-160	4	0-20	
Pyrene	100	96	40-160	3	0-20	
Benzo (a) Anthracene	100	102	40-160	2	0-20	
Chrysene	102	104	40-160	3	0-20	
Benzo (b) Fluoranthene	92	89	40-160	4	0-20	
Benzo (k) Fluoranthene	102	105	40-160	3	0-20	
Benzo (a) Pyrene	94	97	40-160	3	0-20	
Dibenz (a,h) Anthracene	98	102	40-160	4	0-20	
Benzo (g,h,i) Perylene	99	102	40-160	3	0-20	
Indeno (1,2,3-c,d) Pyrene	96	99	40-160	3	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 07-07-0451

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike or Matrix Spike Duplicate compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

KIFF Analytical LLC
2795 Second Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4808

Cal Science Environmental
7440 Lincoln Way
Garden Grove, CA 92841
714-895-5494

0451

Lab No. 57383

Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF to): Christie Dumas

EDF Report? __Yes _x_No

Company/Address: Kiff Analytical

Phone No.:

FAX No.:

Project Number: 7528.03

P.O. No.: 57383

Project Name: Crystal-Meridian

Project Address:

Recommended but not mandatory to complete this section:

Sampling Company Log Code:

Global ID:

EDF Deliverable to (Email Address):

E-mail address: inbox@kiffanalytical.com

Analysis Request

Date due:

Sample Designation	Sampling Date	Sampling Time	Container: Glass	Container: Poly	Container: Sleeve	Container: Amber	Container: Tedlar	Preservative: HNO_3	Preservative: H_2SO_4	Preservative: $Na_2S_2O_3$	Preservative: $ZnAc_2$ & NaOH	Preservative: NONE	Matrix: WATER	Matrix: SOIL	Matrix: Air	PAHs (EPA 8310)								July 13, 2007	For Lab Use Only
MW-1	7/6/07	1330				2				2			x			x								x	
MW-2	7/6/07	1500				2				2			x			x								x	
MW-3	7/6/07	1415				2				2			x			x								x	

Relinquished by:	Date	Time	Received by:
Hardip Kandola Kiff Analytical	070607	1900	
Relinquished by:	Date	Time	Received by:
Relinquished by: C/O	Date 07.07.07	Time 1020	Received by Laboratory: Shen Fanna Co

Remarks:

Bill to: Accounts Payable

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 07 - 07 - 0451

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: Kiff **DATE:** 07.07.07

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
_____ Ambient temperature.
_____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

4.4 °C Temperature blank.
_____ °C IR thermometer.
_____ Ambient temperature.

Initial: _____

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: ✓ No (Not Intact) : _____ Not Present: _____

Initial: _____

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sampler's name indicated on COC		✓	
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers and volume for analyses requested	✓		
Proper preservation noted on sample label(s)	✓		
VOA vial(s) free of headspace.			✓
Tedlar bag(s) free of condensation			✓

Initial: _____

COMMENTS:

KIFF Analytical LLC

2795 2nd Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4802

SRG # / Lab No. 57383

Page ___ of ___

Project Contact (Hardcopy or PDF To): Arthur Forma	California EDF Report? ☐ Yes ☐ No
Company / Address: WKA	Sampling Company Log Code:
Phone #: 916-372-1434 / Fax #:	Global ID:
Project #: 7528.03 / P.O. #:	EDF Deliverable To (Email Address):
Project Name: Crystal-Meridian	Sampler Signature: [signature]
Project Address: 1013 D St., Sacramento	

Chain-of-Custody Record and Analysis Request

Analysis Request

Sample Designation	Date	Time	40 ml VOA	Sleeve	Poly	Glass	Tedlar	1 L Amber	HCl VOAs	HNO_3	None	Na_2SO_3-Ambers	Water	Soil	Air	MTBE (EPA 8260B) per EPA 8021 level @ 5.0 ppb	MTBE (EPA 8260B) @ 0.5 ppb	BTEX (EPA 8260B)	TPH Gas (EPA 8260B)	5 Oxygenates (EPA 8260B)	7 Oxygenates (EPA 8260B)	Lead Scav.(1,2 DCA & 1,2 EDB-EPA 8260B)	Volatile Halocarbons (EPA 8260B)	Volatile Organics Full List (EPA 8260B)	Volatile Organics (EPA 524.2 Drinking Water)	TPH as Diesel (EPA 8015M)	TPH as Motor Oil (EPA 8015M)	Total Lead (EPA 6010)	W.E.T. Lead (STLC)	PAHs 8310			TAT ☐ 12 hr ☐ 24 hr ☐ 48 hr ☐ 72 hr ☑ 1 wk	For Lab Use Only
MW-1	7/6/07	1330	6					2	✓			✓						X	X		X			X		X	X			X			X	01
MW-2	7/6/07	1500	|					|	|			|						|	|		|			|		|	|			|			|	02
MW-3	7/6/07	1415	|					|	|			|						|	|		|			|		|	|			|			|	03

Relinquished by:	Date	Time	Received by:
[signature] / WKA	7/6/07	1625	
	070607	1629	Received by Laboratory: Handip Kandola Kiff Analytical

Remarks:

Bill to:

For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time	Therm. ID #	Coolant Present
18.5	HKK	070607	1623	IR-4	Yes / No

Distribution: White - Lab; Pink - Originator
Rev: 051805