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FINAL
GROUNDWATER MONITORING REPORT
THIRD QUARTER 2006
PACIFIC AIRMOTIVE CORPORATION
2940 AND 3003 NORTH HOLLYWOOD WAY
BURBANK, CALIFORNIA

Prepared for:

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Pasadena, California
TC# 17653-0602 / November 2006

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1.0 INTRODUCTION

On behalf of Lockheed Martin Corporation (LMC), Tetra Tech, Inc. (Tetra Tech) has prepared this groundwater monitoring report for two Pacific Airmotive Corporation (PAC) properties within the Burbank Operable Unit (BOU) in Burbank, California (*see Figure 1-1*). LMC is performing work requested by the U.S. Environmental Protection Agency (EPA) in a letter directed to General Electric (GE) dated October 20, 2005 due to a settlement agreement between PAC, an indirect wholly-owned subsidiary of GE, and LMC.

In the October 20, 2005 letter, the EPA requested GE to initiate four quarters of groundwater sampling of the eight (8) existing wells at the PAC properties based on previous facility operations, detection of constituents, lack of current groundwater results, and recent regulatory concerns related to potential sources associated with emergent chemicals within the BOU. The EPA required analysis of the groundwater for volatile organic compounds (VOCs), 1,2,3-trichloropropane (1,2,3-TCP), Title 22 metals, including thallium and dissolved (total) chromium, hexavalent chromium, 1,4-dioxane, N-Nitrosodimethylamine (NDMA), perchlorate, nitrate/nitrite, common cations and anions, dissolved oxygen, sulfide, and dissolved iron and manganese.

1.1 SITE LOCATION AND DESCRIPTION

The PAC properties are located at 2940 and 3003 North Hollywood Way within the north-central portion of the BOU (*see Figure 1-1*). The property at 2940 North Hollywood Way was identified as the Main Facility, and the property at 3003 North Hollywood Way was identified as the Jet Engine Test Cell Facility. Both facilities were historically associated with the manufacturing, design, and repair of aircraft and aircraft engines. Structures have been removed from 2940 North Hollywood Way. Structures at 3003 North Hollywood Way are vacant.

Figure 1-1 BOU Boundary Map

1.2 PURPOSE AND OBJECTIVE

The purpose of this groundwater monitoring report is to comply with the provisions of the EPA's October 20, 2005 letter. The objective of this monitoring report is to present groundwater data collected during the third quarter of 2006. The groundwater data is being collected to assist the EPA in assessing the current groundwater quality and conditions at the above mentioned monitoring wells and within the BOU. The quarterly monitoring report presents field, laboratory analytical results, and quality control data collected during groundwater level and water quality monitoring.

1.3 REPORT ORGANIZATION

The third quarter 2006 quarterly groundwater monitoring report has been organized into the following six (6) sections:

Section 1. *Introduction*: introduces the project and presents the purpose, objectives and report format.

Section 2. *Subsurface Conditions*: presents the site geologic and hydrogeologic setting.

Section 3. *Description of Historical Areas of Concern*: identifies the areas of groundwater concern beneath the PAC properties.

Section 4. *Groundwater Monitoring Procedures*: summarizes the groundwater monitoring activities, groundwater measurements, and laboratory analysis conducted.

Section 5. *Groundwater Analytical Results*: discusses groundwater monitoring results.

Section 6. *References*: lists the references used to prepare this quarterly groundwater monitoring report.

2.0 SUBSURFACE CONDITIONS

2.1 GEOLOGY

The PAC properties are located in the southeastern portion of the San Fernando Valley (SFV) between the Santa Monica and Verdugo mountains. The SFV is located on the northwestern block of the Los Angeles Basin within the Transverse Ranges Geomorphic Province, an east-west trending unit composed of subparallel ranges separated by alluviated, synclinal valleys and prominent faults. The SFV is bordered to the north by the Santa Susana and San Gabriel mountains, to the east by the Verdugo Mountains, to the south by the Santa Monica Mountains, and to the west by the Simi Hills. These uplands are composed of crystalline bedrock of Precambrian to Mesozoic in age and sedimentary units from Cretaceous to Pleistocene in age. The crystalline bedrock and sedimentary units were eroded from the uplands during the Quaternary Period and deposited as more than 2,000 feet of alluvium in the SFV. The only major structural feature within close proximity to the PAC properties is the Verdugo Fault, which is approximately one mile to the northeast and trends northwesterly along the base of the Verdugo Mountains (Tetra Tech, 2006a).

2.2 HYDROGEOLOGY

The PAC properties are located within the San Fernando Basin (SFB), one (1) of four (4) distinct groundwater basins that encompass the entire watershed of the Los Angeles River and its tributaries within the SFV (also known as the Upper Los Angeles River Area – ULARA). Groundwater within the eastern portion of the SFB flows mainly through two sedimentary units: 1) Older alluvium of Pleistocene age and 2) Younger alluvium of Holocene age. The older alluvium is comprised of sand, gravel, and boulders in the northwestern portion of the BOU to interbedded silt and sand in the eastern and southern portions of the BOU. The younger alluvium is comprised of coarse sand, gravel, and cobbles interbedded with finer-grained units of sand, silty sand, sandy silt, silty clay, and minor gravelly sand. Groundwater flow within the older alluvium has been observed to be locally semi-confined to confined. The younger alluvium is generally unconfined to

semi-confined, depending upon the location and thickness of fine grained interbeds (Tetra Tech, 2006a).

The aquifer in the younger alluvium within the BOU has been divided into five hydrostratigraphic units (HSU) based on electrical resistivity responses in geophysical logs (Hargis & Associates, 1991; Simon Hydro-Search, 1993). The five HSUs of the Younger Alluvium are identified from upper to lower as A', X, A, Y, and B. The A', A, and B units are generally composed of coarser-grained material (coarse sands, gravels, and cobbles). The X and Y HSUs separate the three (A', A, B) HSUs listed above and consist of relatively finer-grained material including sand, silty sand, and silt. Based on the stratigraphic position of the units and the groundwater gradient, the A', X, or A HSU may locally represent water table conditions depending on geographic location within the project area.

Groundwater flow direction in the SFB is generally toward the southeast. Groundwater velocities in the BOU range from approximately 300 to 900 feet per year (ULARA, 2005).

3.0 DESCRIPTION OF HISTORICAL AREAS OF CONCERN

After reporting a jet fuel spill to the Los Angeles Regional Water Quality Control Board (LA-RWQCB) in 1987, PAC agreed to install MW-1 and MW-2 at the Jet Engine Test Facility downgradient of the location of the fuel spill. In 1992, in an effort by the LA-RWQCB to assess the groundwater analytes underlying the PAC properties, monitoring well MW-3 was installed at the Jet Engine Test Cell Facility, and monitoring wells MW-4 through MW-8 were installed at the Main Facility (*see Figure 3-1*).

The EPA issued a Unilateral Administrative Order (UAO) in 1994 which required PAC to perform soil and groundwater investigations. As part of the soil investigation, PAC conducted soil gas surveys across the PAC properties to assess the nature and extent of vapor and non-vapor phase analytes in the unsaturated zone. Since 1997, when PAC became an indirect wholly owned subsidiary of GE, PAC, through GE technical and legal representatives acting on its behalf, has been working with the LA-RWQCB to further investigate and remediate PAC properties (Tetra Tech, 2006a).

Semi-annual groundwater monitoring from June 1987 through December 1988 indicated elevated levels of trichloroethene (TCE) and tetrachloroethene (PCE) in monitoring wells MW-1 and MW-2 (*see Table 3-1*). Groundwater monitoring from September 1992 through January 1995 showed PCE and TCE concentrations exceeding regulatory maximum contaminant levels (MCLs) of five micrograms per liter (µg/L) in wells MW-3 through MW-8 (*see Table 3-2*). Monitoring wells MW-1 and MW-2 were both dry during this time period.

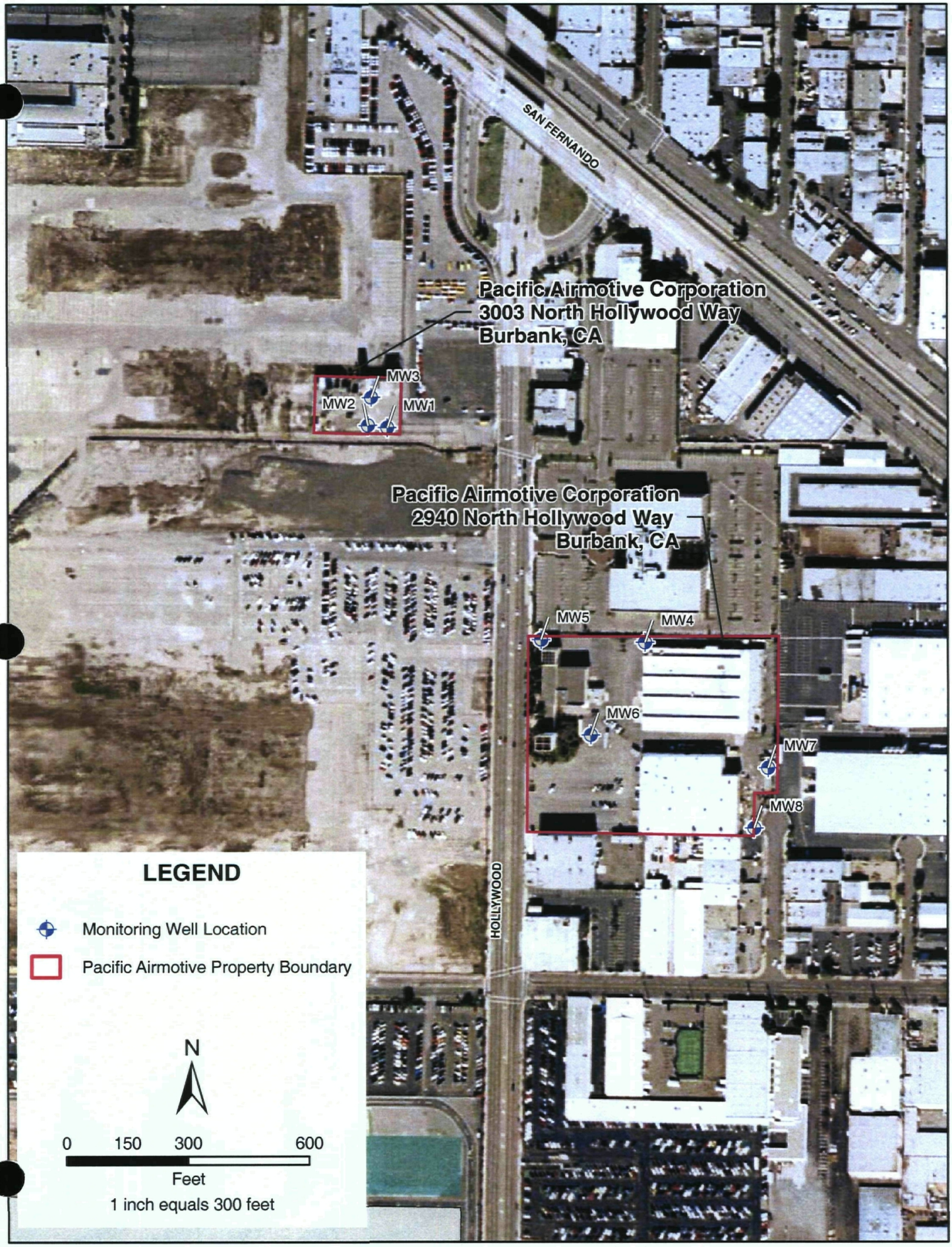

Figure 3-1 - PAC Wells Location Map

Table 3-1
Historical Analysis From 1987 – 1989
(Reported in µg/L)

	6/18/87		12/29/87		6/14/88		12/15/88	
	PCE	TCE	PCE	TCE	PCE	TCE	PCE	TCE
MCL	5	5	5	5	5	5	5	5
Composite of MW-1 & MW-2	***130***	***32***						
MW-1	***130****	***32****	***67***	***24***	***160***	***31***	***75***	***12***
MW-2	***130****	***32****	***190***	***41***	***200***	***33***	***130***	***15***

Notes: All concentrations in µg/L
Bold – Result above MCL
* Result based on composite sample

Table 3-2
Historical Analysis From 1992 – 1995
(Reported in µg/L)

Well ID	9/15-16/92		12/16-19/92		7/19-20/94		12/25-26/94		1/30-31/95	
	PCE	TCE	PCE	TCE	PCE	TCE	PCE	TCE	PCE	TCE
MCL	5	5	5	5	5	5	5	5	5	5
MW-1	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
MW-2	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
MW-3	***39***	***11***	***47***	***12***	***18***	***6.4***	***58***	***8.8***	***63***	***7.8***
MW-4	***460***	***46***	***400***	***41***	***22***	***6.3***	***25***	3.6	***13***	2.2
MW-5	***2100***	***440***	***64***	***13***	***40***	***8.9***	***150***	***24***	***49***	***6.9***
MW-6	***910***	***250***	***490***	***120***	***39***	***7.4***	***1300***	***170***	***800***	***110***
MW-7	***87***	***18***	***420***	***49***	***43***	***11***	***2000***	***88***	***490***	***19***
MW-8	***1700***	***160***	***1200***	***94***	***21***	***5.1***	***1800***	***170***	***1800***	***130***

Notes: All concentrations in µg/L
Bold – Result above MCL

4.0 GROUNDWATER MONITORING PROCEDURES

4.1 GROUNDWATER LEVEL MEASUREMENTS

Water levels in the eight (8) monitoring wells were measured on September 13, 2006 using a water level meter consisting of a liquid sensor attached to a measuring tape that was lowered down into the well until water was encountered. Water level measurements were recorded on well purging forms (*see Appendix A*) and are presented below in Table 4-1. Groundwater monitoring wells MW-1 and MW-2 were dry. Groundwater elevation contours are shown on Figure 4-1. The general groundwater flow direction is to the southeast.

As shown on Figure 4-1, the groundwater elevation data produced an apparent ridge in the groundwater surface trending southwest between wells MW-4 and MW-6. This is different from groundwater contour maps created for the previous report. The cause of the southwest trending ridge in the groundwater surface is unknown. Potential causes are inaccurate data entry, groundwater infiltration from an unknown source northeast of the Site, and groundwater extraction from an unknown source west of the Site.

Table 4-1
Summary of Groundwater Elevations

Well Number	HSU	Date Measured	Top of Casing (TOC) Elevation (feet msl)	Groundwater Depth from TOC (feet)	Groundwater Elevation (feet msl)
MW-1	NA	dry	NA*	dry	dry
MW-2	NA	dry	NA*	dry	dry
MW-3	NA	9/13/2006	NA*	240.20	NA
MW-4	A	9/13/2006	700.15	226.16	473.99
MW-5	A	9/13/2006	701.96	228.40	473.56
MW-6	A	9/13/2006	700.95	227.25	473.70
MW-7	A	9/13/2006	696.16	225.21	470.95
MW-8	A	9/13/2006	NA*	230.92	NA

Note: HSU – Hydrostratigraphic unit
TOC – Top of casing
msl – mean sea level
NA – Not available

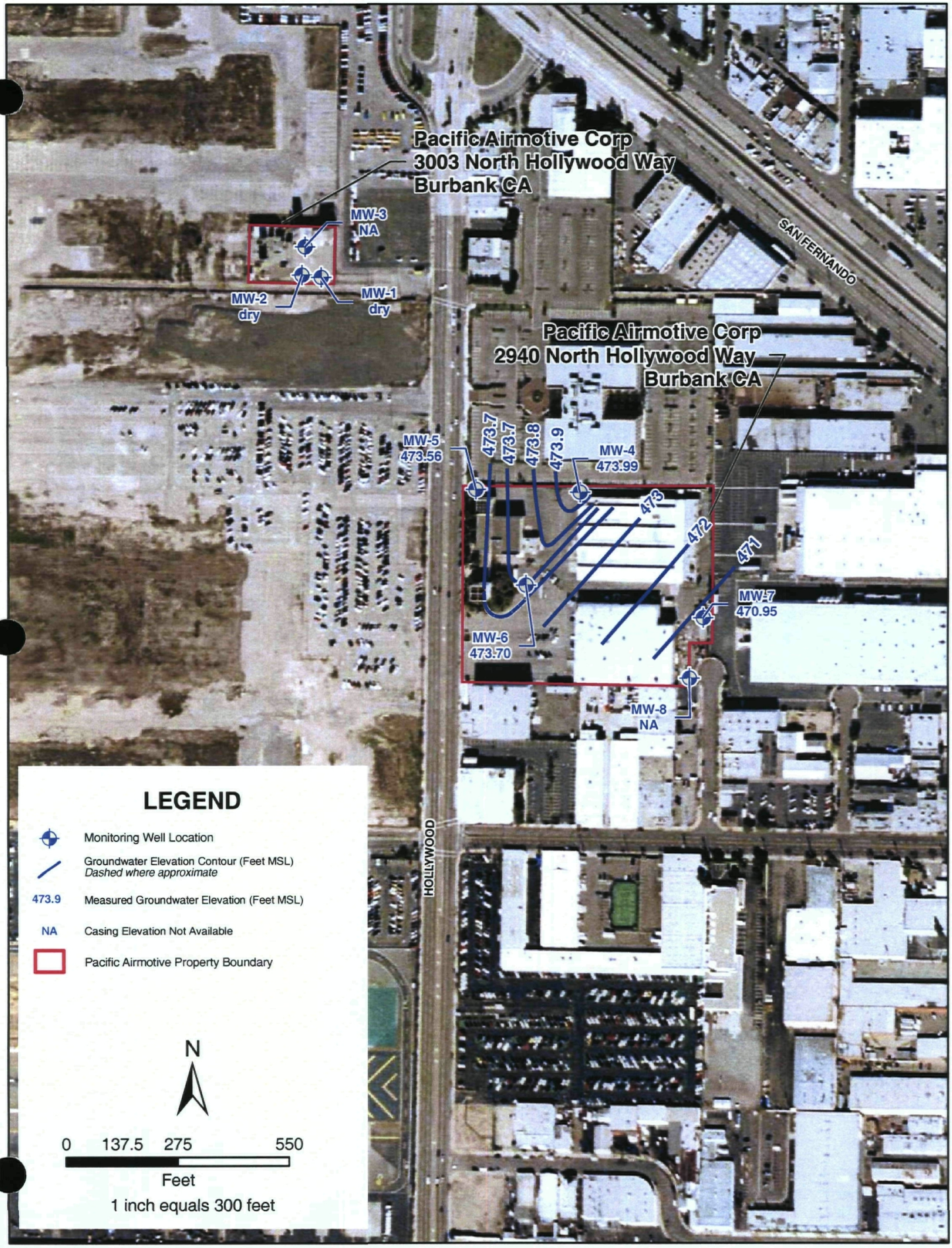

Figure 4-1 - Third Quarter 2006 WT HSU's Groundwater Elevation, PAC

4.2 WELL PURGING AND SAMPLING

Well development was completed in March 2006 to optimize groundwater production within each well prior to the initial quarterly sampling. This was done because groundwater monitoring and sampling had not been completed at the eight (8) PAC wells since 1995.

Prior to collecting the groundwater samples in September 2006, a minimum of three well volumes was purged from monitoring wells MW-3 through MW-8 using a submersible pump. Water temperature, pH, conductivity, dissolved oxygen, and turbidity were measured throughout the purging process using a field water quality monitoring system. Stabilization of these parameters served as an indication of water representative of the formation, and their values were recorded on well purging forms (*see Appendix A*).

The groundwater samples were collected using a down-hole submersible pump for monitoring wells MW-3 through MW-8. Groundwater samples were collected from a nozzle attached to the pump hose and placed directly into sample containers provided by the laboratory. Decontamination procedures were followed after each monitoring well was sampled to avoid cross-contamination between wells. The water samples were placed on ice in a cooler to maintain a temperature of $^{+}/_{-}$ 4°C pending delivery to Calscience Environmental Laboratories, Inc., a state of California certified laboratory, for analysis. A completed chain-of-custody form accompanied the shipment of samples to the laboratory to ensure accountability for the samples from the time of collection to the time of analysis.

4.3 LABORATORY ANALYSIS

Groundwater samples were collected from six (6) groundwater monitoring wells (MW-3 through MW-8) on September 13, 2006 at the PAC facility. Samples analyzed for dissolved metals were filtered in the field using a disposable filter.

The EPA requested that groundwater samples from the PAC wells be analyzed for specific constituents using analytical methods consistent with those of the BOU groundwater sampling events as follows:

- VOCs, including MTBE, using EPA method 8260B
- 1,2,3-TCP, using EPA method 524M
- Title 22 metals, including thallium and dissolved (total) chromium, using EPA method 6010B/7470A
- Hexavalent chromium, using EPA method 218.6
- 1,4-dioxane, using EPA method 8270C (M)
- NDMA, using EPA method 1625C (M)
- Perchlorate, using EPA method 314.0
- Nitrate/nitrite, using EPA method 300.0
- Cations, using EPA method 6010B
- Anions, using EPA method 300.0
- Dissolved oxygen, using EPA method SM 4500-O G
- Sulfide, using EPA method 376.2
- Dissolved iron and manganese using EPA method 200.8.

5.0 GROUNDWATER ANALYTICAL RESULTS

For the purpose of assisting the EPA in assessing the groundwater quality within the area of the eight (8) PAC monitoring wells, the groundwater monitoring well analytical results are validated for usability and compared to their respective water quality objectives (WQOs). The following subsections detail the data validation and present the validated analytical results.

In order to meet the objective of assessing the groundwater quality in the area of the eight (8) PAC monitoring wells, the validated analytical results from the samples collected were compared to their respective WQOs (i.e., maximum contaminant level [MCL] and/or the California drinking water notification level [CDWNL]). The MCLs or CDWNL concentrations are based on the lowest value in *A Compilation of Water Quality Goals, California Regional Water Quality Control Board, Central Valley Region*, dated September 2004 (EPA, 2004) and *Drinking Water Notification Levels and Response Levels: An Overview, California Department of Health Services Drinking Water Program*, dated May 12, 2006 (DHS, 2006). Copies of the laboratory analytical data reports are included in Appendix B. The validated results for the analytes detected are presented in Tables 5-1 through 5-6. A description of the various methods and analytical results is presented in the following subsections.

5.1 DATA VERIFICATION AND VALIDATION

In order to determine the quality and usability of the analytical results, the laboratory analytical results were reviewed and validated according to the *US EPA Contract Laboratory Program National Functional Guidelines* (EPA, 2002). As part of the data evaluation, the laboratory data underwent verification and validation including laboratory control samples (LCS), matrix spike duplicates (MSD), and method blanks. All samples were validated as specified in Appendix C which presents a summary of the quality control and quality assurance (QA/QC).

Based on the validation of the third quarter 2006 analytical data, certain analytical results were qualified according to the criteria set forth in the *US EPA Contract Laboratory Program National Functional Guidelines*. Data results that were estimated based on their values or QC sample fault were qualified with a "J". Data results of specific compounds with corresponding detections in the method blank in the same analytical batch were qualified with a "B". A description of the qualifiers is provided below.

"J" Qualified Data

With the third quarter 2006 analytical results, a few values were "J" qualified. The reason for "J" qualified data stems from the fact that some of the concentrations reported by the laboratory were above the method detection limit (MDL), but below the practical quantitation limit (PQL) or reporting limit (RL) of the analytical instrument. If a concentration is below the PQL/RL of the analytical instrument, the result is defined to be an estimated value and assigned a "J" qualifier.

For the purpose of this report, all of the data qualified as estimated with a "J" qualifier are usable.

"B" Qualified Data

The laboratory data reports from the third quarter 2006 also reported detections of certain compounds in the method blanks. With these detections, the laboratory qualifies the data as blank contamination (with a "B" qualifier) that may have resulted from cross contamination from non environmental sources.

During the Tetra Tech data validation process, certain laboratory "B" qualified values were reclassified utilizing the 5 times (5x) / 10 times (10x) rule as defined in the *US EPA Contract Laboratory Program National Functional Guidelines*. The 5x rule is used for method blank detection of known COCs. For compounds that are known to be common laboratory contaminants (e.g., methylene chloride, acetone, etc.), the 10x rule is applied.

Based on the 5x/10x rule, laboratory "B" qualified results for each compound that were less than or equal to 5x/10x the result reported in method blank of the same analytical batch were considered to be due to laboratory contamination. These results are presented in the summary tables as a value less than the MDL and flagged with a "B". For the laboratory "B" qualified results that exceeded 5x/10x the result in the method blank, the reported laboratory values are presented in the summary table. The reclassification of the "B" qualified results in the laboratory data is described in Section 1.1.3.7 of Appendix C. All of the laboratory data qualified with a "B" qualifier are usable for their intended purpose.

5.2 VOC ANALYTICAL RESULTS

Groundwater samples were collected from six (6) of the eight (8)groundwater monitoring wells and analyzed for VOCs. Based on the validation performed on the data from the VOC analyses, certain VOC results were qualified. However, all of the results from the analyses were deemed usable. A summary of the validated analytical results is presented in Table 5-1 and discussed below:

- **Acetone** was reported in six (6) groundwater wells (MW-3, MW-4, MW-5, MW-6, MW-7, and MW-8) at concentrations ranging from 7.9 µg/L (MW-6) to 16 µg/L (MW-8), which is between the PQL/RL (50.0 µg/L) and the MDL (7.0 µg/L). Based on the reported detections, these results are considered to be estimated values ("J" qualified) and are usable for the purpose of this report. These values are presented in the summary table as the laboratory value with a "J" qualifier.
- **Bromo-dichloromethane** was reported in one (1) groundwater well (MW-5) at a concentration of 0.41 µg/L which is between the PQL/RL (1.0 µg/L) and the MDL (0.21 µg/L). Based on the reported detection, this result is considered to be an estimated value ("J" qualified) and is usable for the purpose of this report. This value is presented in the summary table as the laboratory value with a "J" qualifier.
- **Carbon Tetrachloride** was detected in five (5) groundwater samples (MW-3, MW-4, MW-5, MW-6, and MW-8) with concentrations ranging from 0.62 µg/L (MW-4) to 2.6 µg/L (MW-6), respectively.
- **Chloroform** was detected in four (4) groundwater wells (MW-3, MW-5, MW-6, and MW-8) at concentrations ranging from 1.2 µg/L (MW-8) to 2.2 µg/L (MW-5 and MW-6).

Additionally, two (2) wells (MW-4 and MW-7) reported chloroform at concentrations of 0.95 µg/L and 0.65 µg/L, respectively, which are between the PQL/RL (1.0 µg/L) and the MDL (0.29 µg/L). Based on the reported detections, these results are considered to be estimated values ("J" qualified) and are usable for the purpose of this report. These values are presented in the summary table as the laboratory value with a "J" qualifier.

- **1,2-Dichloroethane** was detected in two (2) groundwater wells (MW-3 and MW-8) at concentrations of 0.70 µg/L and 1.1 µg/L, respectively.

  Additionally, one (1) well (MW-6) reported 1,2-dichloroethane at a concentration of 0.26 µg/L which is between the PQL/RL (0.50 µg/L) and the MDL (0.25 µg/L). Based on the reported detection, this result is considered to be an estimated value ("J" qualified) and is usable for the purpose of this report. This value is presented in the summary table with the laboratory value with a "J" qualifier.

- **1,1-Dichloroethene** was detected in three (3) groundwater samples (MW-3, MW-5, and MW-6) with concentrations of 4.0 µg/L, 2.5 µg/L, and 3.4 µg/L, respectively.

  Additionally, three (3) wells (MW-4, MW-7, and MW-8) reported 1,1-dichloroethene at concentrations of 0.56 µg/L, 0.35 µg/L, and 0.94 µg/L, respectively, which is between the PQL/RL (1.0 µg/L) and the MDL (0.26 µg/L). Based on the reported detections, these results are considered to be estimated values ("J" qualified) and are usable for the purpose of this report. These values are presented in the summary table as the laboratory value with a "J" qualifier.

- **Naphthalene** was reported in one (1) groundwater well (MW-7) at a concentration of 0.74 µg/L which is between the PQL/RL (10.00 µg/L) and the MDL (0.42 µg/L). Based on the reported detection, this result is considered to be an estimated value ("J" qualified) and is usable for the purpose of this report. This value is presented in the summary table as the laboratory value with a "J" qualifier.

- **Tetrachloroethene** was detected in all groundwater samples with concentrations ranging from 30 µg/L (MW-7) to 150 µg/L (MW-8).

- **1,1,1-Trichloroethane** was reported in one (1) groundwater well (MW-3) at a concentration of 0.76 µg/L which is between the PQL/RL (1.0 µg/L) and the MDL (0.35 µg/L). Based on the reported detection, this result is considered to be an estimated value ("J" qualified) and is usable for the purpose of this report. This value is presented in the summary table as the laboratory value with a "J" qualifier.

- **1,1,2-Trichloro-1,2,2-trifluoroethane** was reported in five (5) groundwater wells (MW-3, MW-4, MW-5, MW-6, and MW-8) at concentrations ranging from 0.99 µg/L (MW-4) to 2.2 µg/L (MW-3) which are between the PQL/RL (10.00 µg/L) and the MDL (0.61 µg/L). Based on the reported detections, these results are considered to be estimated values ("J" qualified) and are usable for the purpose of

this report. These values are presented in the summary table as the laboratory value with a "J" qualifier.

- **Trichloroethene** was detected in all groundwater samples with concentrations ranging from 8.9 μg/L (MW-7) to 66 μg/L (MW-5 and MW-6).

A review of the VOC analytical data reveals that four (4) compounds were detected above their respective MCL. Carbon tetrachloride was detected above the MCL of 0.5 μg/L in five (5) groundwater samples (MW-3, MW-4, MW-5, MW-6, and MW-8) with concentrations ranging from 0.62 μg/L to 2.6 μg/L. 1,2-Dichloroethane was detected above the MCL of 0.5 μg/L in two (2) groundwater samples (MW-3 and MW-8) with concentrations of 0.70 μg/L and 1.1 μg/L, respectively. Tetrachloroethene was detected above the MCL of 5 μg/L in all groundwater samples ranging from 30 μg/L (MW-7) to 150 μg/L (MW-8). Trichloroethene was detected above the MCL of 5 μg/L in all groundwater samples ranging from 8.9 μg/L (MW-7) to 66 μg/L (MW-5 and MW-6).

Table 5-1
Summary of Detected VOCs Analytical Results
EPA Method 8260B
(reported in µg/L)

Well ID	Acetone	Bromo-dichloromethane	Carbon Tetrachloride	Chloroform	1,2-Dichloroethane	1,1-Dichloroethene	Naphthalene	Tetrachloroethene	1,1,1-Trichloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	Trichloroethene
WQO	**NA**	**80 [1]**	**0.5 [1]**	**80 [1]**	**0.5[2]**	**6[2]**	**17**	**5 [3]**	**200 [3]**	**1,200[2]**	**5 [3]**
MW-3	13[J]	<0.21	**1.2**	1.7	**0.70**	4.0	<0.42	**71**	0.76[J]	2.2[J]	**24**
MW-4	13[J]	<0.21	**0.62**	0.95[J]	<0.25	0.56[J]	<0.42	**70**	<0.35	0.99[J]	**27**
MW-5	11[J]	0.41[J]	**2.0**	2.2	<0.25	2.5	<0.42	**120**	<0.35	1.4[J]	**66**
MW-6	7.9[J]	<0.21	**2.6**	2.2	0.26[J]	3.4	<0.42	**120**	<0.35	1.0[J]	**66**
MW-7	9.2[J]	<0.21	<0.29	0.65[J]	<0.25	0.35[J]	0.74[J]	**30**	<0.35	<0.61	**8.9**
MW-8	16[J]	<0.21	0.67	1.2	**1.1**	0.94[J]	<0.42	**150**	<0.35	1.5[J]	**60**

Note:
[1] US EPA MCL
[2] CDWNL = California Drinking Water Notification Level
[3] California Primary MCL
[B] Analyte was present in the associated method blank.
[J] Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
MCL = Maximum contaminant level.
NA = Not available
WQO = Water quality objective.

5.3 EMERGENT CHEMICALS ANALYTICAL RESULTS

Groundwater samples were collected from six (6) of the eight (8) groundwater monitoring wells and analyzed for 1,4-dioxane, NDMA, and 1,2,3-TCP. A summary of the analytical results are presented in Table 5-2 and discussed below:

- **1,4-Dioxane** was not detected in any of the groundwater samples above the laboratory method detection limit of 0.40 µg/L.
- **NDMA** was not detected in any of the groundwater samples above the laboratory method detection limit of 0.00048 µg/L.
- **1,2,3-TCP** was detected in all groundwater samples with concentrations ranging from 0.011 µg/L (MW-7) to 0.16 µg/L (MW-5).

A review of the emergent chemical analytical data reveals that only 1,2,3-TCP was detected above its CDWNL of 0.005 µg/L in all groundwater samples (MW-3, MW-4, MW-5, MW-6, MW-7 and MW-8) with concentration ranging from 0.011 µg/L (MW-7) to 0.16 µg/L (MW-5).

Table 5-2
Emergent Chemicals Analytical Results
(results in µg/L)

Well ID	1,4-Dioxane by EPA Method 8270 SIM	NDMA by EPA Method 1625C(M)	1,2,3-TCP by EPA Method 504.1
WQO	**3**	**0.01**	**0.005**
MW-3	<0.40	<0.00048	**0.081**
MW-4	<0.40	<0.00048	**0.022**
MW-5	<0.40	<0.00048	**0.16**
MW-6	<0.40	<0.00048	**0.032**
MW-7	<0.40	<0.00048	**0.011**
MW-8	<0.40	<0.00048	**0.092**

Note: CDWNL = California Drinking Water Notification Level
NDMA = N-Nitrosodimethylamine.
1,2,3-TCP = 1,2,3-Tricloropropane.
MCL = Maximum contaminant level.
WQO = Water quality objective.

5.4 DISSOLVED IRON AND MANGANESE ANALYTICAL RESULTS

Groundwater samples were collected from six (6) of the eight (8) groundwater monitoring wells and analyzed for dissolved iron and manganese. Based on the validation performed on the data from the dissolved iron and manganese analyses, certain iron and manganese results were qualified. However, all of the results from the analyses were deemed usable. A summary of the analytical results are presented in Table 5-3 and below.

- **Dissolved Iron** was reported in four (4) groundwater wells (MW-4, MW-5, MW-6, and MW-7) at concentrations ranging from 0.00422 mg/L (MW-7) to 0.0185 mg/L (MW-6) which are between the PQL/RL (0.100 mg/L) and the MDL (0.00214 mg/L). Based on the reported detections, these results are considered to be estimated values ("J" qualified) and are usable for the purpose of this report.

These values are presented in the summary table as the laboratory value with a "J" qualifier.

- **Dissolved Manganese** was detected in five (5) groundwater wells (MW-3, MW-5, MW-6, MW-7, and MW-8) at concentrations ranging from 0.00113 mg/L (MW-8) to 0.00272 mg/L (MW-7).

  Additionally, one (1) well (MW-4) reported dissolved manganese at a concentration of 0.000632 mg/L which is between the PQL/RL (0.00100 mg/L) and the MDL (0.0000189 mg/L). Based on the reported detection, this result is considered to be an estimated value ("J" qualified) and is usable for the purpose of this report. This value is presented in the summary table as the laboratory value with a "J" qualifier.

A review of the dissolved iron and manganese analytical results reveal that groundwater samples did not contain concentrations that exceeded their respective MCL.

Table 5-3
Dissolved Metals Analytical Results
EPA Method 6010B/7470A
(results in mg/L)

Well ID	Iron	Manganese
WQO	**0.3** [1]	**0.05** [1]
MW-3	<0.00214	0.00194
MW-4	0.0128[J]	0.000632[J]
MW-5	0.00851[J]	0.00197
MW-6	0.0185[J]	0.00153
MW-7	0.00422[J]	0.00272
MW-8	<0.00214	0.00113

Note: [1] US EPA MCL
[B] Analyte was present in the associated method blank.
[J] Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
MCL = Maximum Contaminant Level.
WQO = Water quality objective.

5.5 INORGANIC ANALYTICAL RESULTS

Groundwater samples were collected from six (6) groundwater monitoring wells and analyzed for inorganics. Based on the validation performed on the data from the inorganics analyses, certain inorganics results were qualified. However, all of the results

from the analyses were deemed usable. A summary of the analytical results are presented in Table 5-4 and discussed below:

- **Hexavalent Chromium** was detected above the MDL in the method blanks for the analytical batches containing samples from all six (6) wells (MW-3, MW-4, MW-5, MW-6, MW-7, and MW-8).

  Utilizing the 5x rule, all six of these samples reported concentrations that exceeded 5x their analytical batch method blank. The following presents the comparison of the environmental sample results and their respective analytical batch method blank:

  - In the analytical batch containing wells MW-3, MW-5, MW-7, and MW-8 the results in the samples (0.0016 mg/L, 0.0019 mg/L, 0.0014 mg/L, and 0.0015, respectively) exceeded 5x the method blank result of 0.000089 mg/L (5x = 0.000445 mg/L)
  - In the analytical batch containing wells MW-4 and MW-6, the results in the samples (0.0015 mg/L and 0.0035 mg/L, respectively) exceeded 5x the method blank result of 0.000033 mg/L (5x = 0.000165 mg/L)

  Based on the data validation criteria, as detailed in Appendix C, these results are usable for the purpose of this report. These results are presented in the summary table as the values reported by the laboratory.

- **Chloride** was detected in all groundwater samples with concentrations ranging from 37 mg/L (MW-5) to 46 mg/L (MW-4).
- **Nitrite** was not detected in any of the groundwater samples above the laboratory reporting limit.
- **Nitrate** was detected in all groundwater samples with concentrations ranging from 11 mg/L (MW-7 and MW-8) to 14 mg/L (MW-4 and MW-6).
- **Sulfate** was detected in all groundwater samples with concentrations ranging from 72 mg/L (MW-3 and MW-8) to 81 mg/L (MW-6).
- **Sulfide** was not detected in any of the groundwater samples above the laboratory reporting limit.
- **Perchlorate** was not detected in any of the groundwater samples above the laboratory reporting limit.
- **Dissolved Oxygen** was detected in all groundwater samples with concentrations ranging from 6.51 mg/L (MW-8) to 7.13 mg/L (MW-7).

A review of the inorganic analytical data reveals that only nitrate was detected above its water quality objective of 10 mg/L in all groundwater samples.

Table 5-4
Inorganics Analytical Results
(results in mg/L)

Well ID	Hexavalent Chromium	Chloride	Nitrite	Nitrate	Sulfate	Sulfide	Perchlorate	Dissolved Oxygen
WQO	**0.05 [1]**	**250 [2]**	**1 [2]**	**10 [2]**	**250 [2]**	**NA**	**4 [3]**	**NA**
MW-3	0.0016	40	<0.015	**12**	72	<0.042	<0.00043	6.82
MW-4	0.0015	46	<0.015	**14**	76	<0.042	<0.00043	6.89
MW-5	0.0019	37	<0.015	**12**	76	<0.042	<0.00043	6.81
MW-6	0.0035	40	<0.015	**14**	81	<0.042	<0.00043	7.05
MW-7	0.0014	43	<0.015	**11**	79	<0.042	<0.00043	7.13
MW-8	0.0015	40	<0.015	**11**	72	<0.042	<0.00043	6.51

Note: [1] Hexavalent chromium currently regulated using MCL for total chromium
[2] California Secondary MCL
[3] California Drinking Water Notification Level
NA = Not available.
WQO = Water quality objective.

5.6 CATION ANALYTICAL RESULTS

Groundwater samples were collected from six (6) groundwater monitoring wells and analyzed for cations. Based on the validation performed on the cations analytical results, specific calcium, magnesium, and sodium results were qualified. However, all of the results from the emergent chemical analyses are deemed usable. A summary of the validated analytical results is presented in Table 5-5 and below.

- **Calcium** was detected in all groundwater samples with concentrations ranging from 99.1 mg/L (MW-7) to 112 mg/L (MW-6).

  Additionally, calcium was detected above the MDL in the method blanks for the analytical batches containing samples from two (2) wells (MW-4 and MW-6).

  Utilizing the 5x rule, both samples had concentrations that exceeded 5x their analytical batch method blank. The following presents the comparison of the environmental sample results and their respective analytical batch method blank:

  - In the analytical batch containing MW-4 and MW-6, the results (103 mg/L and 112 mg/L, respectively) exceeded 5x the method blank result of 0.0381 mg/L (5x = 0.1905 mg/L)

Based on the data validation criteria, as detailed in Appendix C, these results are usable for the purpose of this report. These results are presented in the summary table as the values reported by the laboratory.

- **Magnesium** was detected in all groundwater samples with concentrations ranging from 30.9 mg/L (MW-6) to 34.7 mg/L (MW-4).

  Additionally, magnesium was detected above the MDL in the method blanks for the analytical batches containing samples from four (4) wells (MW-3, MW-5, MW-7, and MW-8).

  Utilizing the 5x rule, all four (4) samples had concentrations that exceeded 5x their analytical batch method blank. The following presents the comparison of the environmental sample results and their respective analytical batch method blank:

  - In the analytical batch containing MW-3, MW-5, MW-7, and MW-8, the result in the samples (32.6 mg/L, 31.7 mg/L, 34.3 mg/L, and 32.5 mg/L, respectively) exceeded 5x the method blank result of 0.00446 mg/L (5x = 0.0223 mg/L)

  Based on the data validation criteria, as detailed in Appendix C, these results are usable for the purpose of this report. These results are presented in the summary table as the values reported by the laboratory.

- **Potassium** was detected in all groundwater samples with concentrations ranging from 5.17 mg/L (MW-7) to 5.67 mg/L (MW-6).

- **Sodium** was detected in all groundwater samples with concentrations ranging from 37.2 mg/L (MW-8) to 38.4 mg/L (MW-).

  Additionally, sodium was detected above the MDL in the method blanks for the analytical batches containing samples from four (4) wells (MW-3, MW-5, MW-7, and MW-8).

  Utilizing the 5x rule, all four (4) samples had concentrations that exceeded 5x their analytical batch method blank. The following presents the comparison of the environmental sample results and their respective analytical batch method blank:

  - In the analytical batch containing MW-3, MW-5, MW-7, and MW-8, the result in the samples (38.4 mg/L, 37.3 mg/L, 37.4 mg/L, and 37.2 mg/L, respectively) exceeded 5x the method blank result of 0.0432 mg/L (5x = 0.216 mg/L)

  Based on the data validation criteria, as detailed in Appendix C, these results are usable for the purpose of this report. These results are presented in the summary table as the values reported by the laboratory.

Action levels or MCLs have not been established for cations.

Table 5-5
Cations Analytical Results
EPA Method 6010
(results in mg/L)

Well ID	Calcium	Magnesium	Potassium	Sodium
MCL	NA	NA	NA	NA
MW-3	111	32.6	5.52	38.4
MW-4	103	34.7	5.29	37.7
MW-5	111	31.7	5.58	37.3
MW-6	112	30.9	5.67	37.6
MW-7	99.1	34.3	5.17	37.4
MW-8	103	32.5	5.41	37.2

Note: MCL = Maximum contaminant level.
NA = Not available.

5.7 TITLE 22 METAL ANALYTICAL RESULTS

Groundwater samples were collected from the six (6) groundwater monitoring wells and analyzed for Title 22 metals. Based on the validation performed on the data from the Title 22 metals analyses, certain metals results were qualified. A summary of the analytical results are presented in Table 5-6 and only metal analytes detected above the method detection limit are listed below:

- **Antimony** was reported in four (4) groundwater well (MW-3, MW-4, MW-6, and MW-8) at concentrations of 3.76 µg/L, 2.26 µg/L, 3.69 µg/L, and 3.18 µg/L, respectively, which are between the PQL/RL (15.0 µg/L) and the MDL (2.09 µg/L). Based on the reported detections, these results are considered to be estimated values ("J" qualified) and are usable for the purpose of this report. These values are presented in the summary table as the laboratory value with a "J" qualifier.
- **Barium** was detected in all groundwater samples with concentrations ranging from 144 µg/L (MW-5) to 158 µg/L (MW-4).
- **Beryllium** was detected above the MDL in the method blanks for the analytical batches containing samples from four (4) wells (MW-3, MW-5, MW-7, and MW-8).

  Beryllium sample results in the four (4) wells were below 5x their respective method blank detection and were considered to be due to laboratory contamination. These results are presented in the summary table as a value less than the analytical method MDL with a "B" qualifier.

- **Cadmium** was reported in one (1) groundwater well (MW-4) at concentration of 0.984 µg/L which is between the PQL/RL (5.0 µg/L) and the MDL (0.350 µg/L). Based on the reported detection, this result is considered to be an estimated value ("J" qualified) and is usable for the purpose of this report. This value is presented in the summary table as the laboratory value with a "J" qualifier.
- **Chromium** was detected in five (5) of the six (6) groundwater samples with concentrations ranging from 6.21 µg/L (MW-8) to 11.2 µg/L (MW-7).

  Additionally, chromium was reported in one (1) groundwater well (MW-4) with a concentration of 5.0 µg/L which is between the PQL/RL (5.0 µg/L) and the MDL (0.350 µg/L). Based on the reported detection, this result is considered to be an estimated value ("J" qualified) and is usable for the purpose of this report. This value is presented in the summary table as the laboratory value with a "J" qualifier.
- **Copper** was detected above the MDL in the method blanks for the analytical batches containing samples from four (4) wells (MW-3, MW-5, MW-7, and MW-8).

  Copper sample results in the four (4) wells were below 5x their respective method blank detection and were considered to be due to laboratory contamination. These results are presented in the summary table as a value less than the analytical method MDL with a "B" qualifier.
- **Molybdenum** was reported in four (4) groundwater wells (MW-4, MW-6, MW-7, and MW-8) at concentrations of 2.40 µg/L, 1.30 µg/L, 1.58 µg/L, and 1.07 µg/L, respectively, which are between the PQL/RL (5.0 µg/L) and the MDL (0.800 µg/L). Based on the reported detections, these results are considered to be estimated values ("J" qualified) and are usable for the purpose of this report. These values are presented in the summary table as the laboratory value with a "J" qualifier.
- **Nickel** was reported in one (1) groundwater well (MW-6) at a concentration of 1.41 µg/L which is between the PQL/RL (5.0 µg/L) and the MDL (1.37 µg/L). Based on the reported detection, this result is considered to be an estimated value ("J" qualified) and is usable for the purpose of this report. This value is presented in the summary table as the laboratory value with a "J" qualifier.
- **Selenium** was reported in one (1) groundwater well (MW-4) at a concentration of 6.64 µg/L, which is between the PQL/RL (0.0150 µg/L) and the MDL (0.00295 µg/L). Based on the reported detections, this result is considered to be an estimated value ("J" qualified) and is usable for the purpose of this report. This values is presented in the summary table as the laboratory value with a "J" qualifier.
- Selenium was detected above the MDL in the method blanks for the analytical batches containing samples from four (4) wells (MW-3, MW-5, MW-7, and MW-8).

Selenium sample results in the four (4) wells were below 5x their respective method blank detection and were considered to be due to laboratory contamination. These results are presented in the summary table as a value less than the analytical method MDL with a "B" qualifier.

- **Thallium** was reported in three (3) groundwater wells (MW-4, MW-7, and MW-8) at concentrations of 3.34 µg/L, 4.60 µg/L, and 7.23 µg/L, respectively, which are between the PQL/RL (15.0 µg/L) and the MDL (2.33 µg/L). Based on the reported detections, these results are considered to be estimated values ("J" qualified) and are usable for the purpose of this report. These values are presented in the summary table as the laboratory value with a "J" qualifier.
- **Vanadium** was detected above the MDL in the method blanks for the analytical batches containing samples from two (2) wells (MW-4 and MW-6).

  Vanadium sample results in the two (2) wells were below 5x their respective method blank detection and were considered to be due to laboratory contamination. These results are presented in the summary table as a value less than the analytical method MDL with a "B" qualifier.

  Additionally, vanadium was reported in two (2) of the groundwater wells (MW-7 and MW-8) with concentrations of 1.46 µg/L and 1.76 µg/L, respectively, which are between the PQL/RL (5.0 µg/L) and the MDL (0.314 µg/L). Based on the reported detections, these results are considered to be estimated values ("J" qualified) and are usable for the purpose of this report. These values are presented in the summary table as the laboratory value with a "J" qualifier.
- **Zinc** was detected in two groundwater samples (MW-4 and MW-6) with concentrations of 24.6 µg/L and 24.0 µg/L, respectively.

  Additionally, zinc was reported in two (2) of the groundwater wells (MW-7 and MW-8) with concentrations of 2.15 µg/L and 1.71 µg/L, respectively, which are between the PQL/RL (10.0 µg/L) and the MDL (0.848 µg/L). Based on the reported detections, these results are considered to be estimated values ("J" qualified) and are usable for the purpose of this report. These values are presented in the summary table as the laboratory value with a "J" qualifier.

A review of the metals analytical data reveals that only thallium was detected above its WQO of 2 µg/L in three (3) groundwater samples (MW-4, MW-7, and MW-8) with concentrations of 3.34 µg/L, 4.60 µg/L, and 7.23 µg/L, respectively.

Table 5-6
Title 22 Metals Analytical Results
EPA Method 6010B/7470A
(results in µg/L)

Well ID	Antimony	Arsenic	Barium	Beryllium	Cadmium	Total Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
MCL	**6**	**10**	**1000**	**4**	**5**	**50**	**NA**	**1000**	**15**	**2**	**NA**	**100**	**50**	**100**	**2**	**NA**	**5,000**
MW-3	3.76[J]	<3.08	145	<0.255[B]	<0.350	10.9	<0.696	<3.59[B]	<2.36	<0.0672	<0.800	<1.37	<8.15[B]	<0.400	<2.33	<0.314	<0.848
MW-4	2.26[J]	<3.08	152	<0.176	0.984[J]	5.0[J]	<0.696	<1.34	<2.36	<0.0672	2.40[J]	<1.37	6.64[J]	<0.400	**3.34[J]**	<1.44[B]	24.6
MW-5	<2.09	<3.08	144	<0.255[B]	<0.350	10.9	<0.696	<3.59[B]	<2.36	<0.0672	<0.800	<1.37	<8.15[B]	<0.400	<2.33	<0.314	<0.848
MW-6	3.69[J]	<3.08	145	<0.176	<0.350	7.57	<0.696	<1.34	<2.36	<0.0672	1.30[J]	1.41[J]	<2.95	<0.400	<2.33	<1.44[B]	24.0
MW-7	<2.09	<3.08	151	<0.255[B]	<0.350	11.2	<0.696	<3.59[B]	<2.36	<0.0672	1.58[J]	<1.37	<8.15[B]	<0.400	**4.60[J]**	1.46[J]	2.15[J]
MW-8	3.18[J]	<3.08	146	<0.255[B]	<0.350	6.21	<0.696	<3.59[J,B]	<2.36	<0.0672	1.07[J]	<1.37	<8.15[B]	<0.400	**7.23[J]**	1.76[J]	1.71[J]

Note: * California Drinking Water Notification Level
[B] Analyte was present in the associated method blank.
[J] Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
MCL = Maximum contaminant level.
NA = Not available.

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APPENDIX A

FIELD DATA LOG SHEETS

Tetra Tech Inc.
670 N. Rosemead Blvd.
Pasadena, CA 91107
(626) 351 - 4664
Fax (626) 351 - 5291

DAILY REPORT
Date: _____

DAY

S	M	T	W	TH	F	S
				2		

PROJECT PAC WGU
JOB NO. 17653-0603
Location/Building City of Burbank

WEATHER	Bright Sun	Clear	Overcast	Rain	Snow
TEMP.	To 32 °F	32-60	60-70	70-85	85 up
WIND	Still	Moderate	High		
HUMIDITY	Dry	Moderate	Humid		

Summary GW SAMPLING

Samples Collected
MW-7
MW-8
MW-3
MW-5

Remarks

Visitors

Time	Name	Representing	Remarks

Equipment at Site
Gregg Smeal Truck
United Rental F250
Water buffalo
3" grandfos pump

Work Activities

0630 ARRIVED A-1 NORTH, GATHER ALL NECESSARY MATERIALS.
OUT TO BUY ICE, GASOLINE for generator.
0700 GO TO BOU AND PICK UP THE WATER BUFFALO AND GO TO
KIND FLO AND MEET GREGG DRILLING
0730 MET BERNIE FROM GREGG, SPLICE THE PUMP ON TO HIS RIG
AND BEGIN PURGING MW7 AND SAMPLED
0900 BEGIN PURGING MW-8 and sampled.
1035 BEGIN PURGING MW-3 AND SAMPLED.
1250 Begin Purging MW-5 and sampled.
1400 Finish for the day. sign the invoices for Gregg.
1405 Want to BOU AND DROP OFF PURGED WATER - Gouge
1435 BACK TO A-1 North, finish the samples and COC
and wait for Lab pick up. Finished the daily,
set up everything for tomorrow.
1535 left.

By: Norman Ng Title FIELDTECH

TETRA TECH, INC.
3475 E. Foothill Blvd.
Pasadena, CA 91107
(626) 351-4664
Fax (626) 351-5291

WELL PURGING FORM
Date: 9/28/06

TC#: 17653-0603

Page 1 of 1

Project: Burbank PAC WELLS

Client: Lockheed Martin Corporation

Sampler: Nq

Monitoring Well ID:	MW-8	Static Water Level (ft btoc):	230.83
Duplicate ID:	—	Total Well Depth (ft):	271.00
Well Diameter:	4"	Water Column (ft):	40.17
Pump Specs.:	3/4 -230 V Sub pump / NO STARTER BOX	TOC to ground surface (ft):	
Sample Time:	1023	TOC = top of casing (at notch/mark)	

WELL PURGING:

40 (water column) x 0.645 (multiplier) = 26 gals (1 casing volume)

26 gals (1 casing volume) x 3 vols (no. of volumes to purge) = 78 gals (total volume to purge)

Note: water column x multiplier = casing volume

Notes: Pump set at 250'
Flow rate - 3GPM

TIME	TEMP (DEG C°)	EC	pH	TURBIDITY and COLOR	SALINITY	DO	TOTAL GAL. PURGED
0951	22.9	.736	6.75	57	0.03	5.03	0
0954	21.2	.738	6.68	55	0.03	5.01	9
0957	21.2	.743	6.64	51	0.03	4.80	18
1000	21.5	.749	6.64	11	0.03	4.77	27
1003	21.6	.749	6.59	6	0.03	4.69	36
1006	21.8	.753	6.64	4	0.03	4.69	45
1009	21.8	.755	6.66	2	0.03	4.87	54
1012	21.9	.754	6.64	2	0.03	4.75	63
1015	21.9	.756	6.64	1	0.03	4.72	72
1018	21.9	.756	6.65	2	0.03	4.75	87

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WELL PURGING FORM
Date: 9/28/06

TC#: 17653-0603

Page 1 of 1

Project: Burbank PAC WELLS

Client: Lockheed Martin Corporation

Sampler: NG

Monitoring Well ID:	MW-7	Static Water Level (ft btoc):	225.35
Duplicate ID:	—	Total Well Depth (ft):	265.60
Well Diameter:	4"	Water Column (ft):	40.00
Pump Specs.:	3/4-230V Sub pump / NO STARTER BOX	TOC to ground surface (ft):	
Sample Time:	0855	TOC = top of casing (at notch/mark)	

WELL PURGING:

40 (water column) x 0.645 (multiplier) = 25.80 gals (1 casing volume)

25.8 gals (1 casing volume) x 3 vols (no. of volumes to purge) = 80 gals (total volume to purge)

Note: water column x multiplier = casing volume

Notes:
Flow rate 3 gpm
Pump intake – 250'
Should set pump another 10' high

TIME	TEMP (DEG C°)	EC	pH	TURBIDITY and COLOR	SALINITY	DO	TOTAL GAL. PURGED
0820	19.5	~~.733~~ ~~.759~~	~~6.25~~ ~~4.52~~	~~114~~ ~~44~~	0.03	9.58	0
0823	20.3	.756	6.41	70	0.03	5.51	9
0826	20.9	.753	6.49	50	0.03	5.64	18
0829	21.1	.747	6.60	32	0.03	5.08	27
0832	21.2	.747	6.61	32	0.03	5.03	36
0835	21.3	.751	6.63	17	0.03	5.06	45
0838	21.3	.753	6.62	11	0.03	4.95	54
0841	21.3	.753	6.64	8	0.03	4.91	63
0844	21.3	.751	6.64	6	0.03	4.89	72
0847	21.3	.753	6.63	5	0.03	4.89	81

TETRA TECH, INC.
3475 E. Foothill Blvd.
Pasadena, CA 91107
(626) 351-4684
Fax (626) 351-5291

WELL PURGING FORM
Date: 9/28/06

TC#: 17653-0603

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Project: Burbank PAC WELLS

Client: Lockheed Martin Corporation

Sampler: NG

Monitoring Well ID:	MW-3	Static Water Level (ft btoc):	240.33
Duplicate ID:	—	Total Well Depth (ft):	292.00
Well Diameter:	4"	Water Column (ft):	52
Pump Specs.:	3/4-230V Sub pump / NO starter DOP	TOC to ground surface (ft):	
Sample Time:	1205	TOC = top of casing (at notch/mark)	

WELL PURGING:

52 (water column) x 0.645 (multiplier) = 33.5 gals (1 casing volume)

33.5 gals (1 casing volume) x 3 vols (no. of volumes to purge) = 100.5 gals (total volume to purge)

Note: water column x multiplier = casing volume

Notes: Pump intake – 260'
Flow rate – 4 gpm
Well depth is checked

TIME	TEMP (DEG C°)	EC	pH	TURBIDITY and COLOR	SALINITY	DO	TOTAL GAL. PURGED
1132	26.5	.94	6.78	21	~~5.56~~ 0.04	5.30	8
1135	21.5	.91	6.66	162	0.04	5.30	12
1138	21.3	.777	6.64	181	0.03	4.51	24
1141	21.4	.777	6.66	109	0.03	4.56	36
1144	21.4	.776	6.72	43	0.03	5.23	48
1147	21.3	.776	6.63	41	0.03	4.64	60
1150	21.2	.774	6.58	38	0.03	4.66	72
1153	21.2	.775	6.53	18	0.03	4.70	84
1156	21.3	.774	6.58	10	0.03	4.72	96
1158	21.2	.771	6.60	10	0.03	4.78	102

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WELL PURGING FORM
Date: 9/28/06

TC#: 17653-0603

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Project: Burbank PAC WELLS

Client: Lockheed Martin Corporation

Sampler: Nq

Monitoring Well ID:	MW-5	Static Water Level (ft btoc):	228.46
Duplicate ID:		Total Well Depth (ft):	275.00
Well Diameter:	4"	Water Column (ft):	46.54
Pump Specs.:	3/4-230 V Sub pump / No starter box	TOC to ground surface (ft):	
Sample Time:	1326	TOC = top of casing (at notch/mark)	

WELL PURGING:

46.54 (water column) x 0.645 (multiplier) = 30 gals (1 casing volume)

30 gals (1 casing volume) x 3 vols (no. of volumes to purge) = 90 gals (total volume to purge)

Note: water column x multiplier = casing volume

Notes: Pump intake 250'
Flow rate 3 gpm

TIME	TEMP (DEG C°)	EC	pH	TURBIDITY and COLOR	SALINITY	DO	TOTAL GAL PURGED
1250	21.9	.93	6.09	20	0.04	6.35	0
1254	21.6	.909	6.36	14	0.03	5.61	12
1258	21.7	.776	6.46	10	0.03	5.88	24
1302	21.7	.775	6.51	8	0.03	5.86	36
1306	21.7	.777	6.50	8	0.03	5.49	48
1310	21.7	.775	6.54	5	0.03	5.68	60
1314	21.6	.773	6.55	3	0.03	5.63	72
1318	21.6	.774	6.55	3	0.03	5.62	84
1320	21.6	.773	6.55	3	0.03	5.59	96

SEP - Friday

TETRA TECH, INC.
3475 E. Foothill Blvd.
Pasadena, CA 91107
(626) 351-4664
Fax (626) 351-5291

WELL PURGING FORM
Date: 9-29-06

TC#: 17653-0603

Page 1 of 1

Project: Burbank PAC WELLS

Client: Lockheed Martin Corporation

Sampler Norman / Tony Hernandez

Monitoring Well ID:	MW-4	Static Water Level (ft btoc):	226.96
Duplicate ID:	MW-4 Dup, MW-4 MS MW-4 MSD	Total Well Depth (ft):	275.00
Well Diameter:	4"	Water Column (ft):	48.04
Pump Specs.:	3/4-230 Volt Sub pump / NO STARTER BOX	TOC to ground surface (ft):	
Sample Time:	0825	TOC = top of casing (at notch/mark)	

WELL PURGING:

48.04 (water column) x 0.645 (multiplier) = 31 gals (1 casing volume)

31 gals (1 casing volume) x 3 vols (no. of volumes to purge) = 93 gals (total volume to purge)

Note: water column x multiplier = casing volume

Notes: Pump intake at 250'
* GPM - 3
* WATER CLEAR

TIME	TEMP (DEG C°)	EC	pH	TURBIDITY and COLOR	SALINITY	DO	TOTAL GAL. PURGED
0744	19.3	0.94	6.31	30	0.04	6.21	0
0748	20.6	0.94	6.52	6	0.04	5.90	12
0752	21.0	0.94	6.59	2	0.04	5.91	24
0756	21.2	0.94	6.58	15	0.04	5.92	36
0800	21.3	0.94	6.56	7	0.04	5.83	48
0804	21.3	0.94	6.55	0	0.04	5.91	60
0808	21.3	0.94	6.53	0	0.04	5.78	72
0812	21.3	0.94	6.52	2	0.03	5.72	84
0816	21.3	0.94	6.52	0	0.03	5.64	96
* Sample	Time	0825	9-29-06	MW4-0825			
				MW4 Dup-0830			
				MW4 MS-0835			

MW4 MSD-0840

Sep - Friday

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3475 E. Foothill Blvd.
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WELL PURGING FORM
Date: 9-29-06

TC#: 17653-0603

Page 1 of 1

Project: Burbank PAC WELLS

Client: Lockheed Martin Corporation

Sampler [signature]

Monitoring Well ID:	MW-6	Static Water Level (ft btoc):	228.
Duplicate ID:	—	Total Well Depth (ft):	275.00
Well Diameter:	4"	Water Column (ft):	47.[illegible]
Pump Specs.:	3/4 - 230V Sub pump / No starter box	TOC to ground surface (ft):	
Sample Time:	1015	TOC = top of casing (at notch/mark)	

WELL PURGING:

47 (water column) x 0.645 (multiplier) = 31 gals (1 casing volume)

31 gals (1 casing volume) x 3 vols (no. of volumes to purge) = 93 gals (total volume to purge)

Note: water column x multiplier = casing volume

Notes:
* 3 gpm
Pump intake

TIME	TEMP (DEG C°)	EC	pH	TURBIDITY and COLOR	SALINITY	DO	TOTAL GAL. PURGED
0931	21.0	0.93	6.40	12	0.03	6.35	0
0935	21.5	0.93	6.60	16	0.04	6.26	12
0939	21.5	0.93	6.59	5	0.04	6.11	24
0944	21.6	0.92	6.59	8	0.04	5.99	36
0949	21.6	0.92	6.59	4	0.04	5.99	48
0953	21.6	0.92	6.60	3	0.04	5.92	60
0957	21.6	0.92	6.60	4	0.04	5.91	72
1001	21.5	0.93	6.59	3	0.04	5.89	84
1005	21.5	0.92	6.59	2	0.04	5.87	96
SAMPLE TIME:	1015						

WATER LEVELS MEASUREMENT FOR PAC WELLS

	Well ID	Hydrostrati-graphic Unit Screened	JUNE 2006 Depth to Water (feet)	Date	Time	SEPT 2006 Measured DTGW	PID	Remarks
1	MW-1	B	Dry	9/13/06	1316	0.0	0.0	DRY
2	MW-2	X/A(wt)	Dry		1328	0.0		DRY
3	MW-3	X/A(wt)	241.56		1342	240.20		
4	MW-4	X(wt)	227.61		1240	226.16		
5	MW-5	B	229.67		1225	228.40		
6	MW-6	A'/X(wt)	227.96		1256	227.25		broken well box — ?
7	MW-7	A'/X(wt)	225.61		1145	225.21		
8	MW-8	A'/X(wt)	227.25		1206	230.92		

DTGW = Depth to Groundwater

NA - Not Accessible

(-) Hydrostratigraphic unit not defined

wt = water table

APPENDIX B

LABORATORY ANALYTICAL DATA REPORTS

Calscience Environmental Laboratories, Inc.

October 24, 2006

Neil Shukla
Tetra Tech, Inc.
3475 East Foothill Blvd., Suite 300
Pasadena, CA 91107-6024

Subject: **Calscience Work Order No.: 06-09-1679**
Client Reference: BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 9/29/2006 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.
Jason Torres
Project Manager

Calscience Environmental Laboratories, Inc.

Case Narrative for 06-09-1679

Provided below is a narrative of our analytical effort for N-Nitrosodimethylamine (NDMA) analysis by EPA 1625C(M), including any unique features or anomalies encountered during analysis of the samples.

Sample Condition on Receipt

Five aqueous samples were received as part of this Work Order on September 29, 2006. The samples were transferred to the laboratory in an ice-chest following strict chain-of-custody procedures. The temperature (3.3°C) of the samples was measured upon arrival in the laboratory and was within acceptable limits. The samples were logged into the Laboratory Information Management System (LIMS), given laboratory identification numbers, and stored in refrigeration units pending analysis.

Data Summary (NDMA analysis only)

Holding Times

All holding time requirements were met.

Calibration

Frequency and control criteria for initial and continuing calibration verifications were met.

Blanks

The method blank data showed non-detectable levels for all constituents.

Matrix Spikes

Matrix Spikes (MS) and Matrix Spike Duplicates (MSD) were performed at required frequencies. All recoveries were within acceptable limits.

7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX:(714) 894-7501

Calscience Environmental Laboratories, Inc.

Case Narrative for 06-09-1679

Laboratory Control Samples

The Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) analyses were performed at the required frequencies. All recoveries were within acceptable limits.

Surrogates

Surrogate recoveries for all samples were within acceptable control limits.

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Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.
3475 East Foothill Blvd., Suite 300
Pasadena, CA 91107-6024

Date Received: 09/29/06
Work Order No: 06-09-1679
Preparation: EPA 3005A Filt. / EPA 7470A Filt.
Method: EPA 6010B / EPA 7470A
Units: mg/L

Project: BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MW-4	06-09-1679-2	09/29/06	Aqueous	10/02/06	10/03/06	061002L05F

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.
-Mercury was analyzed on 10/2/2006 1:50:39 PM with batch 061002L03

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Antimony	0.00226	0.0150	0.00209	1	J	Mercury	ND	0.000500	0.0000672	1	
Arsenic	ND	0.0100	0.00308	1		Molybdenum	0.00240	0.00500	0.000800	1	J
Barium	0.152	0.010	0.000719	1		Nickel	ND	0.00500	0.00137	1	
Beryllium	ND	0.00100	0.000176	1		Selenium	0.00664	0.0150	0.00295	1	J
Cadmium	0.000984	0.00500	0.000350	1	J	Silver	ND	0.00500	0.000400	1	
Chromium	0.00500	0.00500	0.000350	1	J	Thallium	0.00334	0.0150	0.00233	1	J
Cobalt	ND	0.00500	0.000696	1		Vanadium	0.00542	0.00500	0.000314	1	B
Copper	ND	0.00500	0.00134	1		Zinc	0.0246	0.0100	0.000848	1	
Lead	ND	0.0100	0.00236	1							

MW-4 DUP	06-09-1679-3	09/29/06	Aqueous	10/02/06	10/03/06	061002L05F

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.
-Mercury was analyzed on 10/2/2006 1:52:55 PM with batch 061002L03

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Antimony	0.00235	0.0150	0.00209	1	J	Mercury	ND	0.000500	0.0000672	1	
Arsenic	ND	0.0100	0.00308	1		Molybdenum	0.00254	0.00500	0.000800	1	J
Barium	0.150	0.010	0.000719	1		Nickel	0.00154	0.00500	0.00137	1	J
Beryllium	ND	0.00100	0.000176	1		Selenium	ND	0.0150	0.00295	1	
Cadmium	ND	0.00500	0.000350	1		Silver	ND	0.00500	0.000400	1	
Chromium	0.00517	0.00500	0.000350	1		Thallium	ND	0.0150	0.00233	1	
Cobalt	ND	0.00500	0.000696	1		Vanadium	0.00596	0.00500	0.000314	1	B
Copper	ND	0.00500	0.00134	1		Zinc	0.0193	0.0100	0.000848	1	
Lead	ND	0.0100	0.00236	1							

MW-6	06-09-1679-4	09/29/06	Aqueous	10/02/06	10/03/06	061002L05F

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.
-Mercury was analyzed on 10/2/2006 1:59:42 PM with batch 061002L03

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Antimony	0.00369	0.0150	0.00209	1	J	Mercury	ND	0.000500	0.0000672	1	
Arsenic	ND	0.0100	0.00308	1		Molybdenum	0.00130	0.00500	0.000800	1	J
Barium	0.145	0.010	0.000719	1		Nickel	0.00141	0.00500	0.00137	1	J
Beryllium	ND	0.00100	0.000176	1		Selenium	ND	0.0150	0.00295	1	
Cadmium	ND	0.00500	0.000350	1		Silver	ND	0.00500	0.000400	1	
Chromium	0.00757	0.00500	0.000350	1		Thallium	ND	0.0150	0.00233	1	
Cobalt	ND	0.00500	0.000696	1		Vanadium	0.00484	0.00500	0.000314	1	J,B
Copper	ND	0.00500	0.00134	1		Zinc	0.0240	0.0100	0.000848	1	
Lead	ND	0.0100	0.00236	1							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.		Date Received:	09/29/06
3475 East Foothill Blvd., Suite 300		Work Order No:	06-09-1679
Pasadena, CA 91107-6024		Preparation:	EPA 3005A Filt. / EPA 7470A Filt.
		Method:	EPA 6010B / EPA 7470A
		Units:	mg/L

Project: BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-04-008-2,676**	**N/A**	**Aqueous**	**10/02/06**	**10/02/06**	**061002L03**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual
Mercury	ND	0.000500	0.0000672	1	

Method Blank	**097-01-003-6,513**	**N/A**	**Aqueous**	**10/02/06**	**10/03/06**	**061002L05F**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Antimony	ND	0.0150	0.00209	1		Lead	ND	0.0100	0.00236	1	
Arsenic	ND	0.0100	0.00308	1		Molybdenum	ND	0.00500	0.000800	1	
Barium	ND	0.0100	0.000719	1		Nickel	ND	0.00500	0.00137	1	
Beryllium	ND	0.00100	0.000176	1		Selenium	ND	0.0150	0.00295	1	
Cadmium	ND	0.00500	0.000350	1		Silver	ND	0.00500	0.000400	1	
[illegible]mium	ND	0.00500	0.000350	1		Thallium	ND	0.0150	0.00233	1	
[illegible]alt	ND	0.00500	0.000696	1		Vanadium	0.00144	0.00500	0.000314	1	J
Copper	0.00281	0.00500	0.00134	1	J	Zinc	ND	0.0100	0.000848	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.		Date Received:	09/29/06
3475 East Foothill Blvd., Suite 300		Work Order No:	06-09-1679
Pasadena, CA 91107-6024		Preparation:	EPA 3005A Filt.
		Method:	EPA 6010B
		Units:	mg/L
Project: BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603			Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MW-4	**06-09-1679-2**	**09/29/06**	**Aqueous**	**10/02/06**	**10/03/06**	**061002L05F**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Calcium	103	0.100	0.00932	1	B	Potassium	5.29	0.50	0.0561	1	
Magnesium	34.7	0.1	0.00328	1		Sodium	37.7	0.5	0.0192	1	

MW-4 DUP	**06-09-1679-3**	**09/29/06**	**Aqueous**	**10/02/06**	**10/03/06**	**061002L05F**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Calcium	105	0.100	0.00932	1	B	Potassium	5.34	0.50	0.0561	1	
Magnesium	34.3	0.1	0.00328	1		Sodium	38.4	0.5	0.0192	1	

MW-6	**06-09-1679-4**	**09/29/06**	**Aqueous**	**10/02/06**	**10/03/06**	**061002L05F**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Calcium	112	0.100	0.00932	1	B	Potassium	5.67	0.50	0.0561	1	
Magnesium	30.9	0.1	0.00328	1		Sodium	37.6	0.5	0.0192	1	

Method Blank	**097-01-003-6,513**	**N/A**	**Aqueous**	**10/02/06**	**10/03/06**	**061002L05F**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Calcium	0.0381	0.100	0.00932	1	J	Potassium	ND	0.500	0.0561	1	
Magnesium	ND	0.100	0.00328	1		Sodium	ND	0.500	0.0192	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.		Date Received:	09/29/06
3475 East Foothill Blvd., Suite 300		Work Order No:	06-09-1679
Pasadena, CA 91107-6024		Preparation:	EPA 3005A Filt.
		Method:	EPA 200.8
		Units:	mg/L
Project: BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603			Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MW-4	**06-09-1679-2**	**09/29/06**	**Aqueous**	**10/02/06**	**10/02/06**	**061002L03F**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Iron	0.0128	0.100	0.00214	1	J	Manganese	0.000632	0.00100	0.0000189	1	J

MW-4 DUP	**06-09-1679-3**	**09/29/06**	**Aqueous**	**10/02/06**	**10/02/06**	**061002L03F**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Iron	0.0118	0.100	0.00214	1	J	Manganese	0.000669	0.00100	0.0000189	1	J

MW-6	**06-09-1679-4**	**09/29/06**	**Aqueous**	**10/02/06**	**10/02/06**	**061002L03F**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
[illegible]meter	0.0185	0.100	0.00214	1	J	Manganese	0.00153	0.00100	0.0000189	1	

Method Blank	**099-10-008-785**	**N/A**	**Aqueous**	**10/02/06**	**10/02/06**	**061002L03F**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Iron	ND	0.100	0.00214	1		Manganese	ND	0.00100	0.0000189	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.		Date Received:	09/29/06
3475 East Foothill Blvd., Suite 300		Work Order No:	06-09-1679
Pasadena, CA 91107-6024		Preparation:	EPA 3520B
		Method:	EPA 8270C(M) Isotope Dilution

Project: BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MW-4	**06-09-1679-2**	**09/29/06**	**Aqueous**	**10/02/06**	**10/04/06**	**061002L04D**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
1,4-Dioxane	ND	2.0	0.40	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Nitrobenzene-d5	86	56-123	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MW-4 DUP	**06-09-1679-3**	**09/29/06**	**Aqueous**	**10/02/06**	**10/04/06**	**061002L04D**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
1,4-Dioxane	ND	2.0	0.40	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Nitrobenzene-d5	84	56-123	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MW-6	**06-09-1679-4**	**09/29/06**	**Aqueous**	**10/02/06**	**10/04/06**	**061002L04D**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
1,4-Dioxane	ND	2.0	0.40	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Nitrobenzene-d5	89	56-123	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-09-004-656**	**N/A**	**Aqueous**	**10/02/06**	**10/03/06**	**061002L04D**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
1,4-Dioxane	ND	2.0	0.40	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Nitrobenzene-d5	90	56-123	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

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Tetra Tech, Inc.		Date Received:	09/29/06
3475 East Foothill Blvd., Suite 300		Work Order No:	06-09-1679
Pasadena, CA 91107-6024		Preparation:	EPA 3520B
		Method:	EPA 1625CM

Project: BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MW-4	**06-09-1679-2**	**09/29/06**	**Aqueous**	**10/03/06**	**10/05/06**	**061003L02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
N-Nitrosodimethylamine	ND	2.0	0.48	1		ng/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Dichlorobenzene-d4	57	50-130	

MW-4 DUP	**06-09-1679-3**	**09/29/06**	**Aqueous**	**10/03/06**	**10/05/06**	**061003L02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
N-Nitrosodimethylamine	ND	2.0	0.48	1		ng/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Dichlorobenzene-d4	51	50-130	

MW-6	**06-09-1679-4**	**09/29/06**	**Aqueous**	**10/03/06**	**10/05/06**	**061003L02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
N-Nitrosodimethylamine	ND	2.0	0.48	1		ng/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Dichlorobenzene-d4	51	50-130	

Method Blank	**099-07-027-283**	**N/A**	**Aqueous**	**10/03/06**	**10/05/06**	**061003L02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
N-Nitrosodimethylamine	ND	2.0	0.48	1		ng/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Dichlorobenzene-d4	76	50-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

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Tetra Tech, Inc.		Date Received:	09/29/06
3475 East Foothill Blvd., Suite 300		Work Order No:	06-09-1679
Pasadena, CA 91107-6024		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603			Page 1 of 7

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
TtTB092906	06-09-1679-1	09/29/06	Aqueous	10/03/06	10/03/06	061003L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	7.0	1		1,3-Dichloropropane	ND	1.0	0.28	1	
Benzene	ND	0.50	0.19	1		2,2-Dichloropropane	ND	1.0	0.29	1	
Bromobenzene	ND	1.0	0.26	1		1,1-Dichloropropene	ND	1.0	0.62	1	
Bromochloromethane	ND	1.0	0.88	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.21	1		t-1,3-Dichloropropene	ND	0.50	0.26	1	
Bromoform	ND	1.0	0.87	1		Ethylbenzene	ND	1.0	0.13	1	
Bromomethane	ND	10	3.5	1		2-Hexanone	ND	10	3.4	1	
2-Butanone	ND	10	8.0	1		Isopropylbenzene	ND	1.0	0.10	1	
n-Butylbenzene	ND	1.0	0.25	1		p-Isopropyltoluene	ND	1.0	0.14	1	
sec-Butylbenzene	ND	1.0	0.29	1		Methylene Chloride	ND	10	9.7	1	
tert-Butylbenzene	ND	1.0	0.19	1		4-Methyl-2-Pentanone	ND	10	2.0	1	
Carbon Disulfide	ND	10	1.8	1		Naphthalene	ND	10	0.42	1	
Carbon Tetrachloride	ND	0.50	0.29	1		n-Propylbenzene	ND	1.0	0.12	1	
Chlorobenzene	ND	1.0	0.16	1		Styrene	ND	1.0	0.16	1	
Chloroethane	ND	1.0	0.70	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloroform	ND	1.0	0.29	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.45	1	
Chloromethane	ND	10	2.1	1		Tetrachloroethene	ND	1.0	0.30	1	
2-Chlorotoluene	ND	1.0	0.16	1		Toluene	ND	1.0	0.23	1	
4-Chlorotoluene	ND	1.0	0.18	1		1,2,3-Trichlorobenzene	ND	1.0	0.26	1	
Dibromochloromethane	ND	1.0	0.39	1		1,2,4-Trichlorobenzene	ND	1.0	0.29	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.35	1	
1,2-Dibromoethane	ND	1.0	0.41	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.61	1	
Dibromomethane	ND	1.0	0.82	1		1,1,2-Trichloroethane	ND	1.0	0.79	1	
1,2-Dichlorobenzene	ND	1.0	0.15	1		Trichloroethene	ND	1.0	0.31	1	
1,3-Dichlorobenzene	ND	1.0	0.15	1		Trichlorofluoromethane	ND	10	0.83	1	
1,4-Dichlorobenzene	ND	1.0	0.17	1		1,2,3-Trichloropropane	ND	5.0	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.33	1		1,2,4-Trimethylbenzene	ND	1.0	0.13	1	
1,1-Dichloroethane	ND	1.0	0.25	1		1,3,5-Trimethylbenzene	ND	1.0	0.86	1	
1,2-Dichloroethane	ND	0.50	0.25	1		Vinyl Acetate	ND	10	6.4	1	
1,1-Dichloroethene	ND	1.0	0.26	1		Vinyl Chloride	ND	0.50	0.24	1	
c-1,2-Dichloroethene	ND	1.0	0.63	1		p/m-Xylene	ND	1.0	0.27	1	
t-1,2-Dichloroethene	ND	1.0	0.83	1		o-Xylene	ND	1.0	0.17	1	
1,2-Dichloropropane	ND	1.0	0.55	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.23	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	110	74-140		1,2-Dichloroethane-d4	117	74-146	
Toluene-d8	101	88-112		1,4-Bromofluorobenzene	101	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.		Date Received:	09/29/06
3475 East Foothill Blvd., Suite 300		Work Order No:	06-09-1679
Pasadena, CA 91107-6024		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603			Page 2 of 7

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MW-4	06-09-1679-2	09/29/06	Aqueous	10/03/06	10/03/06	061003L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	13	50	7.0	1	J	1,3-Dichloropropane	ND	1.0	0.28	1	
Benzene	ND	0.50	0.19	1		2,2-Dichloropropane	ND	1.0	0.29	1	
Bromobenzene	ND	1.0	0.26	1		1,1-Dichloropropene	ND	1.0	0.62	1	
Bromochloromethane	ND	1.0	0.88	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.21	1		t-1,3-Dichloropropene	ND	0.50	0.26	1	
Bromoform	ND	1.0	0.87	1		Ethylbenzene	ND	1.0	0.13	1	
Bromomethane	ND	10	3.5	1		2-Hexanone	ND	10	3.4	1	
2-Butanone	ND	10	8.0	1		Isopropylbenzene	ND	1.0	0.10	1	
n-Butylbenzene	ND	1.0	0.25	1		p-Isopropyltoluene	ND	1.0	0.14	1	
sec-Butylbenzene	ND	1.0	0.29	1		Methylene Chloride	ND	10	9.7	1	
[illegible]Butylbenzene	ND	1.0	0.19	1		4-Methyl-2-Pentanone	ND	10	2.0	1	
[illegible]on Disulfide	ND	10	1.8	1		Naphthalene	ND	10	0.42	1	
Carbon Tetrachloride	0.62	0.50	0.29	1		n-Propylbenzene	ND	1.0	0.12	1	
Chlorobenzene	ND	1.0	0.16	1		Styrene	ND	1.0	0.16	1	
Chloroethane	ND	1.0	0.70	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloroform	0.95	1.0	0.29	1	J	1,1,2,2-Tetrachloroethane	ND	1.0	0.45	1	
Chloromethane	ND	10	2.1	1		Tetrachloroethene	70	1	0.30	1	
2-Chlorotoluene	ND	1.0	0.16	1		Toluene	ND	1.0	0.23	1	
4-Chlorotoluene	ND	1.0	0.18	1		1,2,3-Trichlorobenzene	ND	1.0	0.26	1	
Dibromochloromethane	ND	1.0	0.39	1		1,2,4-Trichlorobenzene	ND	1.0	0.29	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.35	1	
1,2-Dibromoethane	ND	1.0	0.41	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	0.99	10.00	0.61	1	J
Dibromomethane	ND	1.0	0.82	1		1,1,2-Trichloroethane	ND	1.0	0.79	1	
1,2-Dichlorobenzene	ND	1.0	0.15	1		Trichloroethene	27	1	0.31	1	
1,3-Dichlorobenzene	ND	1.0	0.15	1		Trichlorofluoromethane	ND	10	0.83	1	
1,4-Dichlorobenzene	ND	1.0	0.17	1		1,2,3-Trichloropropane	ND	5.0	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.33	1		1,2,4-Trimethylbenzene	ND	1.0	0.13	1	
1,1-Dichloroethane	ND	1.0	0.25	1		1,3,5-Trimethylbenzene	ND	1.0	0.86	1	
1,2-Dichloroethane	ND	0.50	0.25	1		Vinyl Acetate	ND	10	6.4	1	
1,1-Dichloroethene	0.56	1.0	0.26	1	J	Vinyl Chloride	ND	0.50	0.24	1	
c-1,2-Dichloroethene	ND	1.0	0.63	1		p/m-Xylene	ND	1.0	0.27	1	
t-1,2-Dichloroethene	ND	1.0	0.83	1		o-Xylene	ND	1.0	0.17	1	
1,2-Dichloropropane	ND	1.0	0.55	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.23	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	106	74-140		1,2-Dichloroethane-d4	111	74-146	
Toluene-d8	105	88-112		1,4-Bromofluorobenzene	102	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.		Date Received:	09/29/06
3475 East Foothill Blvd., Suite 300		Work Order No:	06-09-1679
Pasadena, CA 91107-6024		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603			Page 3 of 7

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MW-4 DUP	**06-09-1679-3**	**09/29/06**	**Aqueous**	**10/03/06**	**10/03/06**	**061003L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	12	50	7.0	1	J	1,3-Dichloropropane	ND	1.0	0.28	1	
Benzene	ND	0.50	0.19	1		2,2-Dichloropropane	ND	1.0	0.29	1	
Bromobenzene	ND	1.0	0.26	1		1,1-Dichloropropene	ND	1.0	0.62	1	
Bromochloromethane	ND	1.0	0.88	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.21	1		t-1,3-Dichloropropene	ND	0.50	0.26	1	
Bromoform	ND	1.0	0.87	1		Ethylbenzene	ND	1.0	0.13	1	
Bromomethane	ND	10	3.5	1		2-Hexanone	ND	10	3.4	1	
2-Butanone	ND	10	8.0	1		Isopropylbenzene	ND	1.0	0.10	1	
n-Butylbenzene	ND	1.0	0.25	1		p-Isopropyltoluene	ND	1.0	0.14	1	
sec-Butylbenzene	ND	1.0	0.29	1		Methylene Chloride	ND	10	9.7	1	
tert-Butylbenzene	ND	1.0	0.19	1		4-Methyl-2-Pentanone	ND	10	2.0	1	
Carbon Disulfide	ND	10	1.8	1		Naphthalene	ND	10	0.42	1	
Carbon Tetrachloride	0.38	0.50	0.29	1	J	n-Propylbenzene	ND	1.0	0.12	1	
Chlorobenzene	ND	1.0	0.16	1		Styrene	ND	1.0	0.16	1	
Chloroethane	ND	1.0	0.70	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloroform	1.0	1.0	0.29	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.45	1	
Chloromethane	ND	10	2.1	1		Tetrachloroethene	63	1	0.30	1	
2-Chlorotoluene	ND	1.0	0.16	1		Toluene	ND	1.0	0.23	1	
4-Chlorotoluene	ND	1.0	0.18	1		1,2,3-Trichlorobenzene	ND	1.0	0.26	1	
Dibromochloromethane	ND	1.0	0.39	1		1,2,4-Trichlorobenzene	ND	1.0	0.29	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.35	1	
1,2-Dibromoethane	ND	1.0	0.41	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	0.93	10.00	0.61	1	J
Dibromomethane	ND	1.0	0.82	1		1,1,2-Trichloroethane	ND	1.0	0.79	1	
1,2-Dichlorobenzene	ND	1.0	0.15	1		Trichloroethene	24	1	0.31	1	
1,3-Dichlorobenzene	ND	1.0	0.15	1		Trichlorofluoromethane	ND	10	0.83	1	
1,4-Dichlorobenzene	ND	1.0	0.17	1		1,2,3-Trichloropropane	ND	5.0	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.33	1		1,2,4-Trimethylbenzene	ND	1.0	0.13	1	
1,1-Dichloroethane	ND	1.0	0.25	1		1,3,5-Trimethylbenzene	ND	1.0	0.86	1	
1,2-Dichloroethane	ND	0.50	0.25	1		Vinyl Acetate	ND	10	6.4	1	
1,1-Dichloroethene	0.57	1.0	0.26	1	J	Vinyl Chloride	ND	0.50	0.24	1	
c-1,2-Dichloroethene	ND	1.0	0.63	1		p/m-Xylene	ND	1.0	0.27	1	
t-1,2-Dichloroethene	ND	1.0	0.83	1		o-Xylene	ND	1.0	0.17	1	
1,2-Dichloropropane	ND	1.0	0.55	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.23	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	107	74-140		1,2-Dichloroethane-d4	113	74-146	
Toluene-d8	107	88-112		1,4-Bromofluorobenzene	103	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Tetra Tech, Inc.		Date Received:	09/29/06
3475 East Foothill Blvd., Suite 300		Work Order No:	06-09-1679
Pasadena, CA 91107-6024		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603			Page 4 of 7

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MW-6	06-09-1679-4	09/29/06	Aqueous	10/06/06	10/06/06	061006L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	7.9	50.0	7.0	1	J	1,3-Dichloropropane	ND	1.0	0.28	1	
Benzene	ND	0.50	0.19	1		2,2-Dichloropropane	ND	1.0	0.29	1	
Bromobenzene	ND	1.0	0.26	1		1,1-Dichloropropene	ND	1.0	0.62	1	
Bromochloromethane	ND	1.0	0.88	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.21	1		t-1,3-Dichloropropene	ND	0.50	0.26	1	
Bromoform	ND	1.0	0.87	1		Ethylbenzene	ND	1.0	0.13	1	
Bromomethane	ND	10	3.5	1		2-Hexanone	ND	10	3.4	1	
2-Butanone	ND	10	8.0	1		Isopropylbenzene	ND	1.0	0.10	1	
n-Butylbenzene	ND	1.0	0.25	1		p-Isopropyltoluene	ND	1.0	0.14	1	
sec-Butylbenzene	ND	1.0	0.29	1		Methylene Chloride	ND	10	9.7	1	
[illegible]-Butylbenzene	ND	1.0	0.19	1		4-Methyl-2-Pentanone	ND	10	2.0	1	
[illegible]on Disulfide	ND	10	1.8	1		Naphthalene	ND	10	0.42	1	
Carbon Tetrachloride	2.6	0.5	0.29	1		n-Propylbenzene	ND	1.0	0.12	1	
Chlorobenzene	ND	1.0	0.16	1		Styrene	ND	1.0	0.16	1	
Chloroethane	ND	1.0	0.70	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloroform	2.2	1.0	0.29	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.45	1	
Chloromethane	ND	10	2.1	1		Tetrachloroethene	120	1	0.30	1	
2-Chlorotoluene	ND	1.0	0.16	1		Toluene	ND	1.0	0.23	1	
4-Chlorotoluene	ND	1.0	0.18	1		1,2,3-Trichlorobenzene	ND	1.0	0.26	1	
Dibromochloromethane	ND	1.0	0.39	1		1,2,4-Trichlorobenzene	ND	1.0	0.29	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.35	1	
1,2-Dibromoethane	ND	1.0	0.41	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	1.0	10.0	0.61	1	J
Dibromomethane	ND	1.0	0.82	1		1,1,2-Trichloroethane	ND	1.0	0.79	1	
1,2-Dichlorobenzene	ND	1.0	0.15	1		Trichloroethene	66	1	0.31	1	
1,3-Dichlorobenzene	ND	1.0	0.15	1		Trichlorofluoromethane	ND	10	0.83	1	
1,4-Dichlorobenzene	ND	1.0	0.17	1		1,2,3-Trichloropropane	ND	5.0	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.33	1		1,2,4-Trimethylbenzene	ND	1.0	0.13	1	
1,1-Dichloroethane	ND	1.0	0.25	1		1,3,5-Trimethylbenzene	ND	1.0	0.86	1	
1,2-Dichloroethane	0.26	0.50	0.25	1	J	Vinyl Acetate	ND	10	6.4	1	
1,1-Dichloroethene	3.4	1.0	0.26	1		Vinyl Chloride	ND	0.50	0.24	1	
c-1,2-Dichloroethene	ND	1.0	0.63	1		p/m-Xylene	ND	1.0	0.27	1	
t-1,2-Dichloroethene	ND	1.0	0.83	1		o-Xylene	ND	1.0	0.17	1	
1,2-Dichloropropane	ND	1.0	0.55	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.23	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	97	74-140		1,2-Dichloroethane-d4	95	74-146	
Toluene-d8	103	88-112		1,4-Bromofluorobenzene	97	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.		Date Received:	09/29/06
3475 East Foothill Blvd., Suite 300		Work Order No:	06-09-1679
Pasadena, CA 91107-6024		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603			Page 5 of 7

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
TtFB092906	06-09-1679-5	09/29/06	Aqueous	10/03/06	10/03/06	061003L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	11	50	7.0	1	J	1,3-Dichloropropane	ND	1.0	0.28	1	
Benzene	ND	0.50	0.19	1		2,2-Dichloropropane	ND	1.0	0.29	1	
Bromobenzene	ND	1.0	0.26	1		1,1-Dichloropropene	ND	1.0	0.62	1	
Bromochloromethane	ND	1.0	0.88	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.21	1		t-1,3-Dichloropropene	ND	0.50	0.26	1	
Bromoform	ND	1.0	0.87	1		Ethylbenzene	0.40	1.0	0.13	1	J
Bromomethane	ND	10	3.5	1		2-Hexanone	ND	10	3.4	1	
2-Butanone	ND	10	8.0	1		Isopropylbenzene	ND	1.0	0.10	1	
n-Butylbenzene	ND	1.0	0.25	1		p-Isopropyltoluene	ND	1.0	0.14	1	
sec-Butylbenzene	ND	1.0	0.29	1		Methylene Chloride	ND	10	9.7	1	
tert-Butylbenzene	ND	1.0	0.19	1		4-Methyl-2-Pentanone	ND	10	2.0	1	
Carbon Disulfide	ND	10	1.8	1		Naphthalene	ND	10	0.42	1	
Carbon Tetrachloride	ND	0.50	0.29	1		n-Propylbenzene	ND	1.0	0.12	1	
Chlorobenzene	ND	1.0	0.16	1		Styrene	ND	1.0	0.16	1	
Chloroethane	ND	1.0	0.70	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloroform	ND	1.0	0.29	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.45	1	
Chloromethane	ND	10	2.1	1		Tetrachloroethene	ND	1.0	0.30	1	
2-Chlorotoluene	ND	1.0	0.16	1		Toluene	0.43	1.0	0.23	1	J
4-Chlorotoluene	ND	1.0	0.18	1		1,2,3-Trichlorobenzene	ND	1.0	0.26	1	
Dibromochloromethane	ND	1.0	0.39	1		1,2,4-Trichlorobenzene	ND	1.0	0.29	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.35	1	
1,2-Dibromoethane	ND	1.0	0.41	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.61	1	
Dibromomethane	ND	1.0	0.82	1		1,1,2-Trichloroethane	ND	1.0	0.79	1	
1,2-Dichlorobenzene	ND	1.0	0.15	1		Trichloroethene	ND	1.0	0.31	1	
1,3-Dichlorobenzene	ND	1.0	0.15	1		Trichlorofluoromethane	ND	10	0.83	1	
1,4-Dichlorobenzene	ND	1.0	0.17	1		1,2,3-Trichloropropane	ND	5.0	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.33	1		1,2,4-Trimethylbenzene	ND	1.0	0.13	1	
1,1-Dichloroethane	ND	1.0	0.25	1		1,3,5-Trimethylbenzene	ND	1.0	0.86	1	
1,2-Dichloroethane	ND	0.50	0.25	1		Vinyl Acetate	ND	10	6.4	1	
1,1-Dichloroethene	ND	1.0	0.26	1		Vinyl Chloride	ND	0.50	0.24	1	
c-1,2-Dichloroethene	ND	1.0	0.63	1		p/m-Xylene	1.1	1.0	0.27	1	
t-1,2-Dichloroethene	ND	1.0	0.83	1		o-Xylene	0.75	1.0	0.17	1	J
1,2-Dichloropropane	ND	1.0	0.55	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.23	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	110	74-140		1,2-Dichloroethane-d4	117	74-146	
Toluene-d8	103	88-112		1,4-Bromofluorobenzene	102	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.		Date Received:	09/29/06
3475 East Foothill Blvd., Suite 300		Work Order No:	06-09-1679
Pasadena, CA 91107-6024		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603			Page 6 of 7

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-10-006-19,264**	**N/A**	**Aqueous**	**10/03/06**	**10/03/06**	**061003L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	7.0	1		1,3-Dichloropropane	ND	1.0	0.28	1	
Benzene	ND	0.50	0.19	1		2,2-Dichloropropane	ND	1.0	0.29	1	
Bromobenzene	ND	1.0	0.26	1		1,1-Dichloropropene	ND	1.0	0.62	1	
Bromochloromethane	ND	1.0	0.88	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.21	1		t-1,3-Dichloropropene	ND	0.50	0.26	1	
Bromoform	ND	1.0	0.87	1		Ethylbenzene	ND	1.0	0.13	1	
Bromomethane	ND	10	3.5	1		2-Hexanone	ND	10	3.4	1	
2-Butanone	ND	10	8.0	1		Isopropylbenzene	ND	1.0	0.10	1	
n-Butylbenzene	ND	1.0	0.25	1		p-Isopropyltoluene	ND	1.0	0.14	1	
sec-Butylbenzene	ND	1.0	0.29	1		Methylene Chloride	ND	10	9.7	1	
t-Butylbenzene	ND	1.0	0.19	1		4-Methyl-2-Pentanone	ND	10	2.0	1	
Carbon Disulfide	ND	10	1.8	1		Naphthalene	0.66	10.00	0.42	1	J
Carbon Tetrachloride	ND	0.50	0.29	1		n-Propylbenzene	ND	1.0	0.12	1	
Chlorobenzene	ND	1.0	0.16	1		Styrene	ND	1.0	0.16	1	
Chloroethane	ND	1.0	0.70	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloroform	ND	1.0	0.29	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.45	1	
Chloromethane	ND	10	2.1	1		Tetrachloroethene	ND	1.0	0.30	1	
2-Chlorotoluene	ND	1.0	0.16	1		Toluene	ND	1.0	0.23	1	
4-Chlorotoluene	ND	1.0	0.18	1		1,2,3-Trichlorobenzene	0.31	1.0	0.26	1	J
Dibromochloromethane	ND	1.0	0.39	1		1,2,4-Trichlorobenzene	ND	1.0	0.29	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.35	1	
1,2-Dibromoethane	ND	1.0	0.41	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.61	1	
Dibromomethane	ND	1.0	0.82	1		1,1,2-Trichloroethane	ND	1.0	0.79	1	
1,2-Dichlorobenzene	ND	1.0	0.15	1		Trichloroethene	ND	1.0	0.31	1	
1,3-Dichlorobenzene	ND	1.0	0.15	1		Trichlorofluoromethane	ND	10	0.83	1	
1,4-Dichlorobenzene	ND	1.0	0.17	1		1,2,3-Trichloropropane	ND	5.0	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.33	1		1,2,4-Trimethylbenzene	ND	1.0	0.13	1	
1,1-Dichloroethane	ND	1.0	0.25	1		1,3,5-Trimethylbenzene	ND	1.0	0.86	1	
1,2-Dichloroethane	ND	0.50	0.25	1		Vinyl Acetate	ND	10	6.4	1	
1,1-Dichloroethene	ND	1.0	0.26	1		Vinyl Chloride	ND	0.50	0.24	1	
c-1,2-Dichloroethene	ND	1.0	0.63	1		p/m-Xylene	ND	1.0	0.27	1	
t-1,2-Dichloroethene	ND	1.0	0.83	1		o-Xylene	ND	1.0	0.17	1	
1,2-Dichloropropane	ND	1.0	0.55	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.23	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	104	74-140		1,2-Dichloroethane-d4	110	74-146	
Toluene-d8	105	88-112		1,4-Bromofluorobenzene	102	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.		Date Received:	09/29/06
3475 East Foothill Blvd., Suite 300		Work Order No:	06-09-1679
Pasadena, CA 91107-6024		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603			Page 7 of 7

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-10-006-19,295**	**N/A**	**Aqueous**	**10/06/06**	**10/06/06**	**061006L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	7.0	1		1,3-Dichloropropane	ND	1.0	0.28	1	
Benzene	ND	0.50	0.19	1		2,2-Dichloropropane	ND	1.0	0.29	1	
Bromobenzene	ND	1.0	0.26	1		1,1-Dichloropropene	ND	1.0	0.62	1	
Bromochloromethane	ND	1.0	0.88	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.21	1		t-1,3-Dichloropropene	ND	0.50	0.26	1	
Bromoform	ND	1.0	0.87	1		Ethylbenzene	ND	1.0	0.13	1	
Bromomethane	ND	10	3.5	1		2-Hexanone	ND	10	3.4	1	
2-Butanone	ND	10	8.0	1		Isopropylbenzene	ND	1.0	0.10	1	
n-Butylbenzene	ND	1.0	0.25	1		p-Isopropyltoluene	ND	1.0	0.14	1	
sec-Butylbenzene	ND	1.0	0.29	1		Methylene Chloride	ND	10	9.7	1	
tert-Butylbenzene	ND	1.0	0.19	1		4-Methyl-2-Pentanone	ND	10	2.0	1	
Carbon Disulfide	ND	10	1.8	1		Naphthalene	ND	10	0.42	1	
Carbon Tetrachloride	ND	0.50	0.29	1		n-Propylbenzene	ND	1.0	0.12	1	
Chlorobenzene	ND	1.0	0.16	1		Styrene	ND	1.0	0.16	1	
Chloroethane	ND	1.0	0.70	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloroform	ND	1.0	0.29	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.45	1	
Chloromethane	ND	10	2.1	1		Tetrachloroethene	ND	1.0	0.30	1	
2-Chlorotoluene	ND	1.0	0.16	1		Toluene	ND	1.0	0.23	1	
4-Chlorotoluene	ND	1.0	0.18	1		1,2,3-Trichlorobenzene	ND	1.0	0.26	1	
Dibromochloromethane	ND	1.0	0.39	1		1,2,4-Trichlorobenzene	ND	1.0	0.29	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.35	1	
1,2-Dibromoethane	ND	1.0	0.41	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.61	1	
Dibromomethane	ND	1.0	0.82	1		1,1,2-Trichloroethane	ND	1.0	0.79	1	
1,2-Dichlorobenzene	ND	1.0	0.15	1		Trichloroethene	ND	1.0	0.31	1	
1,3-Dichlorobenzene	ND	1.0	0.15	1		Trichlorofluoromethane	ND	10	0.83	1	
1,4-Dichlorobenzene	ND	1.0	0.17	1		1,2,3-Trichloropropane	ND	5.0	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.33	1		1,2,4-Trimethylbenzene	ND	1.0	0.13	1	
1,1-Dichloroethane	ND	1.0	0.25	1		1,3,5-Trimethylbenzene	ND	1.0	0.86	1	
1,2-Dichloroethane	ND	0.50	0.25	1		Vinyl Acetate	ND	10	6.4	1	
1,1-Dichloroethene	ND	1.0	0.26	1		Vinyl Chloride	ND	0.50	0.24	1	
c-1,2-Dichloroethene	ND	1.0	0.63	1		p/m-Xylene	ND	1.0	0.27	1	
t-1,2-Dichloroethene	ND	1.0	0.83	1		o-Xylene	ND	1.0	0.17	1	
1,2-Dichloropropane	ND	1.0	0.55	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.23	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	102	74-140		1,2-Dichloroethane-d4	104	74-146	
Toluene-d8	104	88-112		1,4-Bromofluorobenzene	101	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

EPA 8260B Tentatively Identified Compound List

Work Order	CEL Sample	Client ID	Q	Compound	CAS NUMBER	RT	On Column Conc. ug/L	Estimated Conc. ug/L
06-09-1679	1	TtTB092906		No TICs Found				
06-09-1679	2	MW-4	83	Isopropyl Alcohol	67-63-0	3.86	8.82	8.8
06-09-1679	3	MW-4 DUP		No TICs Found				
06-09-1679	4	MW-6		No TICs Found				
06-09-1679	5	TtFB092906		No TICs Found				

Q Qualifier
RT Retention Time

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Calscience Environmental Laboratories, Inc.

Analytical Report

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Tetra Tech, Inc.		Date Received:	09/29/06
3475 East Foothill Blvd., Suite 300		Work Order No:	06-09-1679
Pasadena, CA 91107-6024		Preparation:	EPA 5030B
		Method:	SRL 524M-TCP

Project: BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MW-4	**06-09-1679-2**	**09/29/06**	**Aqueous**	**10/03/06**	**10/03/06**	**061003L01**

Parameter	Result	RL	MDL	DF	Qual	Units
1,2,3-Trichloropropane	0.022	0.005	0.0017	1		ug/L

MW-4 DUP	**06-09-1679-3**	**09/29/06**	**Aqueous**	**10/03/06**	**10/03/06**	**061003L01**

Parameter	Result	RL	MDL	DF	Qual	Units
1,2,3-Trichloropropane	0.024	0.005	0.0017	1		ug/L

MW-6	**06-09-1679-4**	**09/29/06**	**Aqueous**	**10/03/06**	**10/03/06**	**061003L01**

Parameter	Result	RL	MDL	DF	Qual	Units
1,2,3-Trichloropropane	0.032	0.005	0.0017	1		ug/L

Method Blank	**099-10-022-275**	**N/A**	**Aqueous**	**10/03/06**	**10/03/06**	**061003L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
1,2,3-Trichloropropane	ND	0.0050	0.0017	1		ug/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.
3475 East Foothill Blvd., Suite 300
Pasadena, CA 91107-6024

Date Received: 09/29/06
Work Order No: 06-09-1679

Project: BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603

Client Sample Number	Lab Sample Number	Date Collected	Matrix
MW-4	06-09-1679-2	09/29/06	Aqueous

Comment(s): (1) Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chromium, Hexavalent	1.5	0.2	0.0050	1	B	ug/L	N/A	09/29/06	EPA 218.6
Chloride	46	5	0.27	5		mg/L	N/A	10/01/06	EPA 300.0
Nitrite (as N) (1)	ND	0.10	0.015	1		mg/L	N/A	10/01/06	EPA 300.0
Nitrate (as N)	14	0.50	0.14	5		mg/L	N/A	10/01/06	EPA 300.0
Sulfate	76	10	0.69	10		mg/L	N/A	10/01/06	EPA 300.0
Perchlorate (1)	ND	2.0	0.43	1		ug/L	N/A	10/09/06	EPA 314.0
Sulfide, Total (1)	ND	0.050	0.042	1		mg/L	10/06/06	10/06/06	EPA 376.2
Dissolved Oxygen	6.89	0.01	0.0100	1		mg/L	N/A	09/29/06	SM 4500-O G

4 DUP	06-09-1679-3	09/29/06	Aqueous

Comment(s): (1) Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chromium, Hexavalent	1.6	0.2	0.0050	1	B	ug/L	N/A	09/29/06	EPA 218.6
Chloride	47	5	0.27	5		mg/L	N/A	10/01/06	EPA 300.0
Nitrite (as N) (1)	ND	0.10	0.015	1		mg/L	N/A	10/01/06	EPA 300.0
Nitrate (as N)	13	0.50	0.14	5		mg/L	N/A	10/01/06	EPA 300.0
Sulfate	75	10	0.69	10		mg/L	N/A	10/01/06	EPA 300.0
Perchlorate (1)	ND	2.0	0.43	1		ug/L	N/A	10/09/06	EPA 314.0
Sulfide, Total (1)	ND	0.050	0.042	1		mg/L	10/06/06	10/06/06	EPA 376.2
Dissolved Oxygen	7.17	0.01	0.0100	1		mg/L	N/A	09/29/06	SM 4500-O G

MW-6	06-09-1679-4	09/29/06	Aqueous

Comment(s): (1) Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chromium, Hexavalent	3.5	0.2	0.0050	1	B	ug/L	N/A	09/29/06	EPA 218.6
Chloride	40	5	0.27	5		mg/L	N/A	10/01/06	EPA 300.0
Nitrite (as N) (1)	ND	0.10	0.015	1		mg/L	N/A	10/01/06	EPA 300.0
Nitrate (as N)	14	0.50	0.14	5		mg/L	N/A	10/01/06	EPA 300.0
Sulfate	81	10	0.69	10		mg/L	N/A	10/01/06	EPA 300.0
Perchlorate (1)	ND	2.0	0.43	1		ug/L	N/A	10/09/06	EPA 314.0
Sulfide, Total (1)	ND	0.050	0.042	1		mg/L	10/06/06	10/06/06	EPA 376.2
Dissolved Oxygen	7.05	0.01	0.0100	1		mg/L	N/A	09/29/06	SM 4500-O G

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.
3475 East Foothill Blvd., Suite 300
Pasadena, CA 91107-6024

Date Received: 09/29/06
Work Order No: 06-09-1679

Project: BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603

Client Sample Number	Lab Sample Number	Date Collected	Matrix
Method Blank		**N/A**	**Aqueous**

Comment(s): (1) Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chromium, Hexavalent (1)	0.033	0.20	0.0050	1	J	ug/L	N/A	09/29/06	EPA 218.6
Chloride (1)	ND	1.0	0.055	1		mg/L	N/A	09/30/06	EPA 300.0
Nitrite (as N) (1)	ND	0.10	0.015	1		mg/L	N/A	09/30/06	EPA 300.0
Nitrate (as N) (1)	ND	0.10	0.028	1		mg/L	N/A	09/30/06	EPA 300.0
Sulfate (1)	ND	1.0	0.069	1		mg/L	N/A	09/30/06	EPA 300.0
Perchlorate (1)	ND	2.0	0.43	1		ug/L	N/A	10/09/06	EPA 314.0
Sulfide, Total (1)	ND	0.050	0.042	1		mg/L	10/06/06	10/06/06	EPA 376.2

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.
3475 East Foothill Blvd., Suite 300
Pasadena, CA 91107-6024

Date Received: 09/29/06
Work Order No: 06-09-1679
Preparation: EPA 3005A Filt.
Method: EPA 6010B

Project BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-4	Aqueous	ICP 3300	10/02/06	10/03/06	061002S05

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	110	107	72-132	3	0-10	
Arsenic	110	107	80-140	2	0-11	
Barium	109	106	87-123	2	0-6	
Beryllium	108	106	89-119	2	0-8	
Cadmium	107	105	82-124	2	0-7	
Chromium	108	106	86-122	2	0-8	
Cobalt	103	101	83-125	2	0-7	
Copper	90	88	78-126	2	0-7	
Lead	106	105	84-120	2	0-7	
Molybdenum	108	105	78-126	2	0-7	
Nickel	100	98	84-120	1	0-7	
Selenium	107	105	79-127	2	0-9	
Silver	106	104	86-128	2	0-7	
Thallium	97	95	79-121	3	0-8	
Vanadium	105	104	88-118	1	0-7	
Zinc	106	100	89-131	5	0-8	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.		Date Received:	09/29/06
3475 East Foothill Blvd., Suite 300		Work Order No:	06-09-1679
Pasadena, CA 91107-6024		Preparation:	EPA 3005A Filt.
		Method:	EPA 200.8

Project BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-4	Aqueous	ICP/MS A	10/02/06	10/02/06	061002S03B

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Iron	110	105	80-120	5	0-20	
Manganese	97	98	80-120	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.		Date Received:	09/29/06
3475 East Foothill Blvd., Suite 300		Work Order No:	06-09-1679
Pasadena, CA 91107-6024		Preparation:	EPA 7470A Filt.
		Method:	EPA 7470A

Project BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-4	**Aqueous**	**Mercury**	**10/02/06**	**10/02/06**	**061002S03**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	103	101	71-134	2	0-14	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.		Date Received:	09/29/06
3475 East Foothill Blvd., Suite 300		Work Order No:	06-09-1679
Pasadena, CA 91107-6024		Preparation:	EPA 3520B
		Method:	EPA 8270C(M) Isotope Dilution

Project BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-4	**Aqueous**	**GC/MS P**	**10/02/06**	**10/04/06**	**061002S04A**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
1,4-Dioxane	100	101	50-130	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.		Date Received:	09/29/06
3475 East Foothill Blvd., Suite 300		Work Order No:	06-09-1679
Pasadena, CA 91107-6024		Preparation:	EPA 3520B
		Method:	EPA 1625CM

Project BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-4	**Aqueous**	**GC/MS H**	**10/03/06**	**10/05/06**	**061003S02A**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
N-Nitrosodimethylamine	66	59	50-130	11	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.	Date Received:	09/29/06
3475 East Foothill Blvd., Suite 300	Work Order No:	06-09-1679
Pasadena, CA 91107-6024	Preparation:	EPA 5030B
	Method:	EPA 8260B

Project BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-4	Aqueous	GC/MS U	10/03/06	10/03/06	061003S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	100	101	88-118	1	0-7	
Carbon Tetrachloride	104	110	67-145	6	0-11	
Chlorobenzene	100	101	88-118	1	0-7	
1,2-Dichlorobenzene	99	101	86-116	2	0-8	
1,1-Dichloroethene	102	102	70-130	0	0-25	
Toluene	102	102	87-123	0	0-8	
Trichloroethene	101	101	79-127	0	0-10	
Vinyl Chloride	91	94	69-129	4	0-13	
Methyl-t-Butyl Ether (MTBE)	94	99	71-131	5	0-13	
Tert-Butyl Alcohol (TBA)	97	104	36-168	8	0-45	
Diisopropyl Ether (DIPE)	98	102	81-123	4	0-9	
Ethyl-t-Butyl Ether (ETBE)	94	100	72-126	6	0-12	
Tert-Amyl-Methyl Ether (TAME)	95	99	72-126	4	0-12	
Ethanol	90	95	53-149	4	0-31	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.
3475 East Foothill Blvd., Suite 300
Pasadena, CA 91107-6024

Date Received: 09/29/06
Work Order No: 06-09-1679
Preparation: EPA 5030B
Method: EPA 8260B

Project BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
06-09-1593-3	Aqueous	GC/MS U	10/06/06	10/06/06	061006S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	109	107	88-118	2	0-7	
Carbon Tetrachloride	113	112	67-145	1	0-11	
Chlorobenzene	111	108	88-118	2	0-7	
1,2-Dichlorobenzene	111	109	86-116	2	0-8	
1,1-Dichloroethene	106	103	70-130	3	0-25	
Toluene	112	108	87-123	3	0-8	
Trichloroethene	110	103	79-127	3	0-10	
Vinyl Chloride	108	108	69-129	0	0-13	
Methyl-t-Butyl Ether (MTBE)	105	102	71-131	3	0-13	
Tert-Butyl Alcohol (TBA)	91	90	36-168	1	0-45	
Diisopropyl Ether (DIPE)	110	106	81-123	4	0-9	
Ethyl-t-Butyl Ether (ETBE)	105	102	72-126	3	0-12	
Tert-Amyl-Methyl Ether (TAME)	109	107	72-126	2	0-12	
Ethanol	99	95	53-149	5	0-31	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.		Date Received:	09/29/06
3475 East Foothill Blvd., Suite 300		Work Order No:	06-09-1679
Pasadena, CA 91107-6024		Preparation:	EPA 5030B
		Method:	SRL 524M-TCP

Project BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-4	**Aqueous**	**GC/MS M**	**10/03/06**	**10/03/06**	**061003S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
1,2,3-Trichloropropane	106	92	80-120	7	0-20	
1,4-Dioxane	82	92	80-120	12	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.
3475 East Foothill Blvd., Suite 300
Pasadena, CA 91107-6024

Date Received: N/A
Work Order No: 06-09-1679

Project: BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603

Matrix: Aqueous

Parameter	Method	Quality Control Sample ID	Date Analyzed	Date Extracted	MS% REC	MSD % REC	%REC CL	RPD	RPD CL	Qualifiers
Chloride	EPA 300.0	MW-4	10/01/06	N/A	95	94	56-134	0	0-3	
Nitrite (as N)	EPA 300.0	MW-4	10/01/06	N/A	94	94	68-122	0	0-8	
Nitrate (as N)	EPA 300.0	MW-4	10/01/06	N/A	95	96	58-142	1	0-6	
Sulfate	EPA 300.0	MW-4	10/01/06	N/A	95	98	49-133	3	0-3	
Chromium, Hexavalent	EPA 218.6	MW-4	09/29/06	N/A	106	106	85-121	0	0-4	
Perchlorate	EPA 314.0	MW-4	10/09/06	N/A	107	106	80-120	1	0-15	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.
3475 East Foothill Blvd., Suite 300
Pasadena, CA 91107-6024

Date Received: N/A
Work Order No: 06-09-1679

Project: BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603

Matrix: Aqueous

Parameter	Method	QC Sample ID	Date Analyzed	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
Dissolved Oxygen	SM 4500-O G	MW-4	09/29/06	6.89	7.00	2	0-25	
Sulfide, Total	EPA 376.2	MW-4	10/06/06	ND	ND	NA	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.	Date Received:	N/A
3475 East Foothill Blvd., Suite 300	Work Order No:	06-09-1679
Pasadena, CA 91107-6024	Preparation:	EPA 3005A Filt.
	Method:	EPA 6010B

Project: BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-003-6,513	Aqueous	ICP 3300	10/02/06	10/03/06	061002L05F

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	106	106	80-120	0	0-20	
Arsenic	104	104	80-120	0	0-20	
Barium	110	111	80-120	0	0-20	
Beryllium	106	107	80-120	1	0-20	
Cadmium	110	110	80-120	1	0-20	
Chromium	107	108	80-120	0	0-20	
Cobalt	111	112	80-120	1	0-20	
Copper	100	100	80-120	0	0-20	
Lead	109	109	80-120	0	0-20	
Molybdenum	107	107	80-120	0	0-20	
Nickel	111	111	80-120	0	0-20	
Selenium	100	98	80-120	1	0-20	
Silver	105	105	80-120	0	0-20	
Thallium	101	101	80-120	0	0-20	
Vanadium	105	106	80-120	0	0-20	
Zinc	106	106	80-120	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.		Date Received:	N/A
3475 East Foothill Blvd., Suite 300		Work Order No:	06-09-1679
Pasadena, CA 91107-6024		Preparation:	EPA 3005A Filt.
		Method:	EPA 200.8

Project: BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-008-785	Aqueous	ICP/MS A	10/02/06	10/02/06	061002L03F

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Iron	99	104	85-115	5	0-20	
Manganese	105	106	85-115	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.	Date Received:	N/A
3475 East Foothill Blvd., Suite 300	Work Order No:	06-09-1679
Pasadena, CA 91107-6024	Preparation:	EPA 7470A Filt.
	Method:	EPA 7470A

Project: BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-008-2,676	Aqueous	Mercury	10/02/06	10/02/06	061002L03

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	107	107	90-122	0	0-14	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.		Date Received:	N/A
3475 East Foothill Blvd., Suite 300		Work Order No:	06-09-1679
Pasadena, CA 91107-6024		Preparation:	EPA 3520B
		Method:	EPA 8270C(M) Isotope Dilution

Project: BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-09-004-656	Aqueous	GC/MS P	10/02/06	10/03/06	061002L04D

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
1,4-Dioxane	98	102	50-130	4	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Tetra Tech, Inc.	Date Received:	N/A
3475 East Foothill Blvd., Suite 300	Work Order No:	06-09-1679
Pasadena, CA 91107-6024	Preparation:	EPA 3520B
	Method:	EPA 1625CM

Project: BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-07-027-283	Aqueous	GC/MS H	10/03/06	10/05/06	061003L02

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
N-Nitrosodimethylamine	97	95	50-130	2	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.		Date Received:	N/A
3475 East Foothill Blvd., Suite 300		Work Order No:	06-09-1679
Pasadena, CA 91107-6024		Preparation:	EPA 5030B
		Method:	EPA 8260B

Project: BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-006-19,264	Aqueous	GC/MS U	10/03/06	10/03/06	061003L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	99	99	84-120	1	0-8	
Carbon Tetrachloride	111	113	63-147	2	0-10	
Chlorobenzene	99	100	89-119	1	0-7	
1,2-Dichlorobenzene	100	100	89-119	1	0-9	
1,1-Dichloroethene	102	104	77-125	1	0-16	
Toluene	100	100	83-125	0	0-9	
Trichloroethene	100	100	89-119	1	0-8	
Vinyl Chloride	92	93	63-135	1	0-13	
Methyl-t-Butyl Ether (MTBE)	96	99	82-118	3	0-13	
Tert-Butyl Alcohol (TBA)	96	100	46-154	4	0-32	
Diisopropyl Ether (DIPE)	100	102	81-123	2	0-11	
Ethyl-t-Butyl Ether (ETBE)	98	100	74-122	2	0-12	
Tert-Amyl-Methyl Ether (TAME)	96	98	76-124	2	0-10	
Ethanol	101	105	60-138	4	0-32	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.	Date Received:	N/A
3475 East Foothill Blvd., Suite 300	Work Order No:	06-09-1679
Pasadena, CA 91107-6024	Preparation:	EPA 5030B
	Method:	EPA 8260B

Project: BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-006-19,295	Aqueous	GC/MS U	10/06/06	10/06/06	061006L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	108	107	84-120	1	0-8	
Carbon Tetrachloride	116	118	63-147	2	0-10	
Chlorobenzene	109	109	89-119	1	0-7	
1,2-Dichlorobenzene	111	110	89-119	1	0-9	
1,1-Dichloroethene	101	104	77-125	2	0-16	
Toluene	112	109	83-125	2	0-9	
Trichloroethene	113	110	89-119	3	0-8	
Vinyl Chloride	109	110	63-135	0	0-13	
Methyl-t-Butyl Ether (MTBE)	104	108	82-118	3	0-13	
Tert-Butyl Alcohol (TBA)	100	106	46-154	6	0-32	
Diisopropyl Ether (DIPE)	107	109	81-123	2	0-11	
Ethyl-t-Butyl Ether (ETBE)	104	107	74-122	3	0-12	
Tert-Amyl-Methyl Ether (TAME)	109	110	76-124	1	0-10	
Ethanol	96	106	60-138	10	0-32	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Tetra Tech, Inc.		Date Received:	N/A
3475 East Foothill Blvd., Suite 300		Work Order No:	06-09-1679
Pasadena, CA 91107-6024		Preparation:	EPA 5030B
		Method:	SRL 524M-TCP

Project: BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-022-275	Aqueous	GC/MS M	10/03/06	10/03/06	061003L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
1,2,3-Trichloropropane	88	92	80-120	4	0-20	
1,4-Dioxane	90	91	80-120	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.
3475 East Foothill Blvd., Suite 300
Pasadena, CA 91107-6024

Date Received: N/A
Work Order No: 06-09-1679

Project: BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603

Matrix: Aqueous

Parameter	Method	Quality Control Sample ID	Date Extracted	Date Analyzed	LCS % REC	LCSD % REC	%REC CL	RPD	RPD CL	Qual
Chloride	EPA 300.0	099-05-118-3,606	N/A	10/01/06	97	95	81-111	1	0-5	
Nitrite (as N)	EPA 300.0	099-05-118-3,606	N/A	10/01/06	95	98	73-115	4	0-26	
Nitrate (as N)	EPA 300.0	099-05-118-3,606	N/A	10/01/06	97	96	87-111	1	0-12	
Sulfate	EPA 300.0	099-05-118-3,606	N/A	10/01/06	99	97	89-107	2	0-13	
Chromium, Hexavalent	EPA 218.6	099-05-124-532	N/A	09/29/06	98	98	95-107	0	0-20	
Perchlorate	EPA 314.0	099-05-203-477	N/A	10/09/06	110	105	85-115	4	0-15	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 06-09-1679

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.

1679

CHAIN OF CUSTODY RECORD

TETRA TECH, INC.
3475 E. FOOTHILL BLVD.
PASADENA, CALIFORNIA 91107
TELEPHONE (626) 351-4664
FAX (626)351-5291

SHIPPED TO: CALSCIENCE
7440 Lincoln Way
GARDEN GROVE, CA 714-895-5494

DATE 9/29/06 PAGE 1 OF 1

CLIENT: LOCKHEED MARTIN CORP
PROJECT NAME: 2006 BOU
Groundwater Monitoring (PACWELLS)
TASK MANAGER: Neil Shukla
TC #: 17653-0603
SAMPLERS (SIGNATURES): [signature]

EXTRACTION/ANALYTICAL METHODS

TURN-AROUND TIME: STANDARD

SAMPLE NO.	DATE	TIME	VOCs EPA 8260B w/ Freon, MTBE - TICS	123-TCP EPA 504.1 (524.2/LLE-GCMS + PTGC/MS)	Title 22 Metals EPA 6010B/7000 (FILTERED)	Hexavalent Chromium EPA 218.6	1,4-Dioxane EPA 8270C-SIM	NDMA EPA 1625C	Perchlorate EPA 314.0	Dissolved Fe + Mn, Total Cr (6010B) EPA 200.8 (FILTERED)	CATIONS/ANIONS EPA 6010/300.0	Dissolved Oxygen SM 4000/EPA 360.1	Sulfide EPA 300.0	Nitrate/Nitrite EPA 300.0				MATRIX TYPE	PRESERVATIVE	CONTAINER TYPE	NUMBER OF CONTAINERS		OBSERVATIONS /COMMENTS
			X	X	X	X	X	X	X	X	X	X	X	X									
1) TtTB092906	09/29/06	0700	X															W	✓	G	2		
2) MW-4	↓	0825	X	X	X	X	X	X	X	X	X	X	X	X				W	✓	G/P	14		
3) MW-4 Dup	↓	0830	X	X	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓				W	✓	G/P	14		
4) MW-4MS	↓	0835	X	X	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓				W	✓	G/P	14		
2) MW-4MSD	↓	0840	X	X	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓				W	✓	G/P	14		
4) MW-6	↓	1015	X	X	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓				W	✓	G/P	14		
5) TtFB092906	↓	1212	X	~~X~~														W	✓	G	3		

MATRIX TYPE: S - SOIL, W - WATER, SL - SLUDGE
CONTAINER TYPE: G - GLASS BOTTLE/VOA, SS - STAINLESS STEEL SLEEVE, P - PLASTIC
PRESERVATIVES: HCL, NR (NONE REQUIRED)
TEMPERATURE BLANK EACH COOLER: YES / NO

RELINQUISHED BY	SIGNATURE		DATE	TIME	
NORMAN NG	[signature]	TETRA TECH, INC.	9/29/06	1400	TOTAL NUMBER OF CONTAINERS: 75
RECEIVED BY: B. KRISTIANTO	[signature]	COMPANY: CALSCIENCE LAB	9/29/06	1400	METHOD OF SHIPMENT: Lab Pick up
RELINQUISHED BY: B. KRISTIANTO	[signature]	COMPANY: CCL	9/29/06	18:20	SPECIAL SHIPMENT/HANDLING OR STORAGE REQUIREMENTS
RECEIVED BY: Trami Lu	[signature]	COMPANY: CCL	9/29/06	18:20	AIRBILL NO:

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 06 - 09 - 1679

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: TETRA-TECH DATE: 09/29/06

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.

LABORATORY (Other than Calscience Courier):

- ____ °C Temperature blank.
- ____ °C IR thermometer.
- ____ Ambient temperature.

3.3 °C Temperature blank. Initial: RB

CUSTODY SEAL INTACT:

Sample(s): ____ Cooler: ____ No (Not Intact) : ____ Not Applicable (N/A): ✓

Initial: RB

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: RB

COMMENTS:

EPA 1625C(M) NDMA

Tetra Tech, Inc.

CEL #06-09-1679

BOU Groundwater Monitoring 2006 (PAC Wells) /
17653-0603

Start D=Date T=Time	pH Adjust D=Date T=Time	End D=Date T=Time	Matrix S=Soil A=Aqueous O=Oil Other(specify)	Extraction 1=3510 Sep 2=3520 C-LL 4=3540 Sox 5=3550 Son 8=3580 Dil	Client Name	Analysis	Work Order Number	Sample Initial (mL)	Sample Final (mL)	Solvent Lot Number	Solvent Name/ Symbol	Solvent Volume (mL)	Who	Comment
D) 10-3-06 T) 5:00	D) T)	D) 10-4-06 T) 11:00	S A O	1 2 4 5 8	TT	1625 cm NDMA	06 - 09 - 1427 - 2 J	1050	1.0	EW4-51-22	CH2Cl2	350	JL	pH~8
D) T)	D) T)	D) T)	S A O	1 2 4 5 8			- - - 3 K	1050						
D) T)	D) T)	D) T)	S A O	1 2 4 5 8			- - - 4 K	1050						
D) T)	D) T)	D) T)	S A O	1 2 4 5 8			- - - 5 K	1050						
D) T)	D) T)	D) T)	S A O	1 2 4 5 8			- - - 6 L	1050						
D) T)	D) T)	D) T)	S A O	1 2 4 5 8			- - 1498 - 2 G	1050						
D) T)	D) T)	D) T)	S A O	1 2 4 5 8			- - - 3 G	1050						
D) T)	D) T)	D) T)	S A O	1 2 4 5 8			- - - 4 G	1050						
D) T)	D) T)	D) T)	S A O	1 2 4 5 8			- - 1593 - 2 M	1050						
D) T)	D) T)	D) T)	S A O	1 2 4 5 8			- - - 3 L	1050						
D) T)	D) T)	D) T)	S A O	1 2 4 5 8			- - - 4 M	1050						
D) T)	D) T)	D) T)	S A O	1 2 4 5 8			- - - 5 L	1050						
D) T)	D) T)	D) T)	S A O	1 2 4 5 8			- - 1678 - 1 L	1050						
D) T)	D) T)	D) T)	S A O	1 2 4 5 8			- - - 2 L	1050						
D) T)	D) T)	D) T)	S A O	1 2 4 5 8			- - 1679 - 2 W	1050						pH~10
D) T)	D) T)	D) T)	S A O	1 2 4 5 8			- - - 3 N	1050						pH~10
D) T)	D) T)	D) T)	S A O	1 2 4 5 8			- - - 4 M	1050						pH~8
D) T) 0	D) T) 0	D) T) 0	S A O	1 2 4 5 8	ENVIRON	0	0 - 0 - 1474 - 1 E	1040	0	0	0	0	0	pH~8
D) T)	D) T)	D) T)	S A O	1 2 4 5 8			- - -							
D) T)	D) T)	D) T)	S A O	1 2 4 5 8			- - -							

Reviewed by: _____ Date: _____ / _____ / _____

02/23/95 Revision

Work Order Number	(LCS/MB/SA) Batch Number	Surrogate Lot Number	Surrogate Conc (ppm)	Surrogate Volume (mL)	LCS Lot Number	LCS Conc (ppm)	LCS Volume (mL)	MS/MSD Acid Lot Number	MS/MSD Acid Conc (ppm)	MS/MSD Acid Volume (mL)	MS/MSD B/N Lot Number	MS/MSD B/N Conc (ppm)	MS/MSD B/N Volume (mL)	Who	Comment
06 - 09 - 1427 2-6	061003 C02	E042806C	1	0.02	—	—	—	—	—	—	—	—	—	JZ	
- - 1498 2-4		E042806D	1	0.02											
- - 1593 2-5															
- - 1678 1-2															
- - 1679 2-4															
- - 1474 1															surrogate (X2)
- BLK -															
- LCS/LCSD -					E042806F	1	0.02								
06 - 09 - 1678-1-MS					—	—	—				E042806F	1	0.02		
06 - 09 - 1678-1 MSD															
- - 1679-2 MS															
- - 1679-2 MSD															

Reviewed by: _____ Date: ____/____/____

02/23/95 Revision

INITIAL CALIBRATION QUALITY CONTROL SHEET FOR METHOD : EPA 1625CM

INSTRUMENT NAME: GC/MS H

INITIAL BATCH: 060921

INITIAL DATE ANALYZED: 9/21/06

REVIEWED BY:

DATE REVIEWED:

CCV BATCH: 061005

CCV DATE ANALYZED: 10/5/06

TYPE	COMPOUND NAME	INITIAL RF	CCV RF	CCV DIF	CONTROL LIMIT	STATUS
C	N-Nitrosodimethylamine	1.192	1.355	13	0-20	SAT

Injection Log

Directory: C:\MSDCHEM\1\DATA\060921

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
	2	21SEP002.D	1.	NDMA 2PPB S092106K		21 Sep 2006 16:49
2	3	21SEP004.D	1	NDMA 10PPB S092106J		21 Sep 2006 17:43
3	4	21SEP006.D	1.	NDMA 20PPB S092106H		21 Sep 2006 18:36
4	5	21SEP008.D	1.	NDMA 50PPB S092106G		21 Sep 2006 19:30
5	6	21SEP010.D	1.	NDMA 100PPB S092106F		21 Sep 2006 20:25
6	7	21SEP012.D	1	NDMA 20 ICV S061506L		21 Sep 2006 21:19

Response Factor Report CCMS_R

Method : C:\MSDCHEM\1\ME\RODS\NDMA060921.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Sep 22 17:10:12 2006
Response via : Initial Calibration

Calibration Files
2 =21SEP002.D 10 =21SEP004.D 20 =21SEP006.D
50 =21SEP008.D 100 =21SEP010.D

		Compound	2	10	20	50	100	Avg	%RSD
1)	1	N-Nitrosodimethylamin	----------	----------	ISTD	----------	----------	----------	
2)	T	N-Nitrosodimethyl	1.170	1.146	1.262	1.219	1.164	1.192	3.97
3)	S	1,4-Dichlorobenze	2.982	3.126	3.226	3.181	2.844	3.072	5.11

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\060921\21SEP002.D Vial: 2
Acq On : 21 Sep 2006 4:10 pm Operator:
Sample : NDMA 21NB 5092106K Inst : GCMS_H
Misc : Multiplier: 1.00
Integration Params: rteint.p
Quant Time: Sep 21 17:07:52 2006 Quant Results File: NDMA060720.RES

Quant Method : C:\MSDCHEM\1\METHODS\ND060720.M (RTE Integrator)
Title : CLP DNA Calibration
Last Update : Fri Jul 21 16:56:30 2006
Response via : Initial Calibration
DataAcq Meth : NDMASIM3

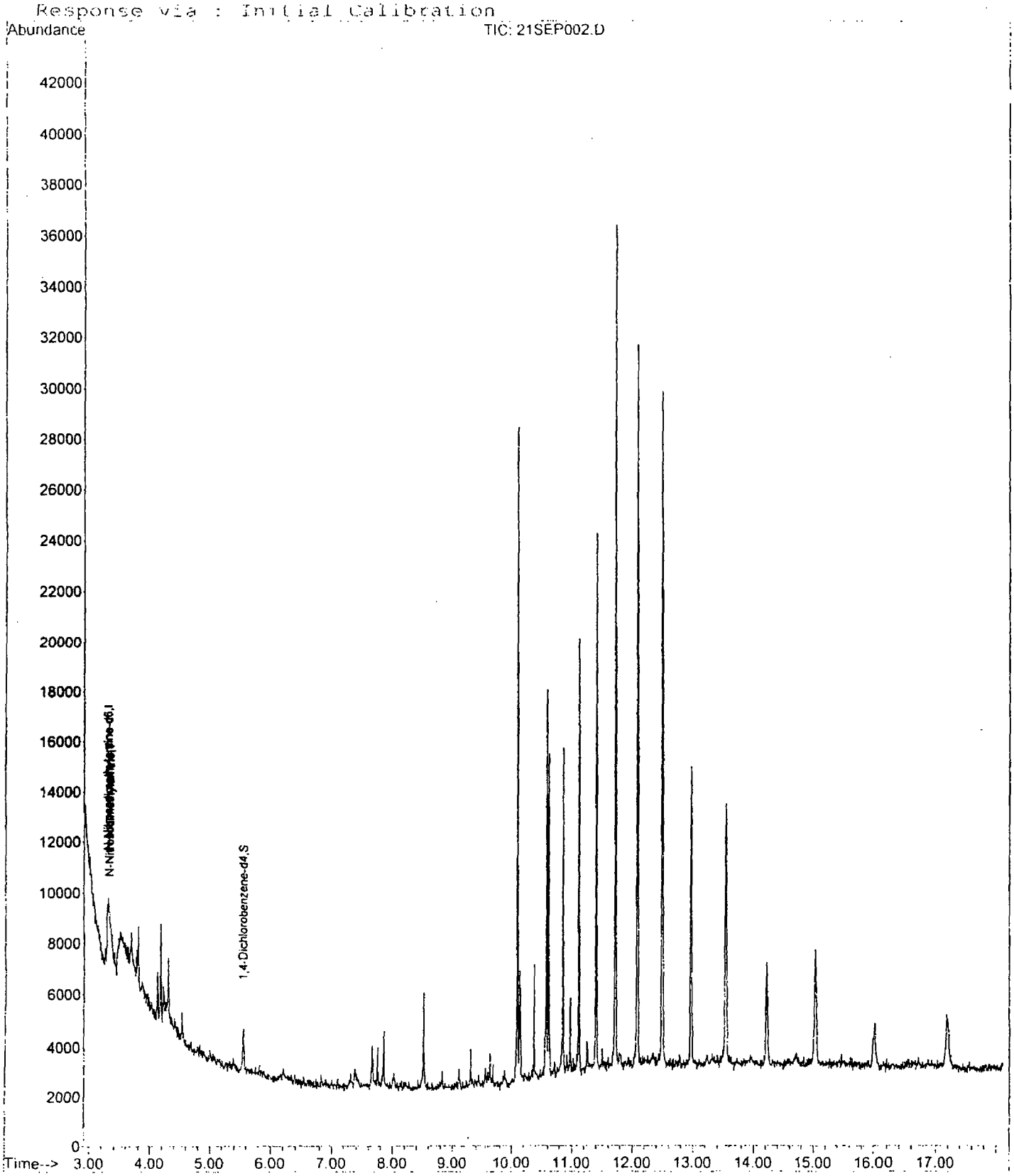
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) N-Nitrosodimethylamine-d6	3.31	80	3991m	20.00	ug/l	0.04
System Monitoring Compounds						
3) 1,4-Dichlorobenzene-d4	5.55	150	1190	1.91	ug/l	-0.08
Spiked Amount 20.000			Recovery	=	9.55%	
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.34	74	467m	2.18	ug/l	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\060921\21SEP002.D Vial :
Acquired : 21 Sep 2006 3:49 pm Operator :
Sample : NDMA 2PPB S092106K Inst : GCMS 1
Misc : Multiplier : 1.00
MS Integration Params: rtegint.p
Quant Time: Sep 22 17:08 2006 Quant Results File: NDMA060720.

Method : C:\MSDCHEM\1\METHODS\NDMA060921.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Sep 22 17:02:04 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\[illegible]
Acq On : 21 Sep 2006 5:43 pm
Sample : NDMA 10PPB S0921[illegible]
Vial : [illegible]
Operator :
Inst : [illegible]
Multiplier : [illegible]

Integration Params: rteint.p
Quant Time: Sep 22 08:41:07 2006 Quant Results File: NDMA060720.RES

Quant Method : C:\MSDCHEM\1\METHODS\NDMA060720.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Jul 21 16:56:30 2006
Response via : Initial Calibration
DataAcq Meth : NDMASIM3

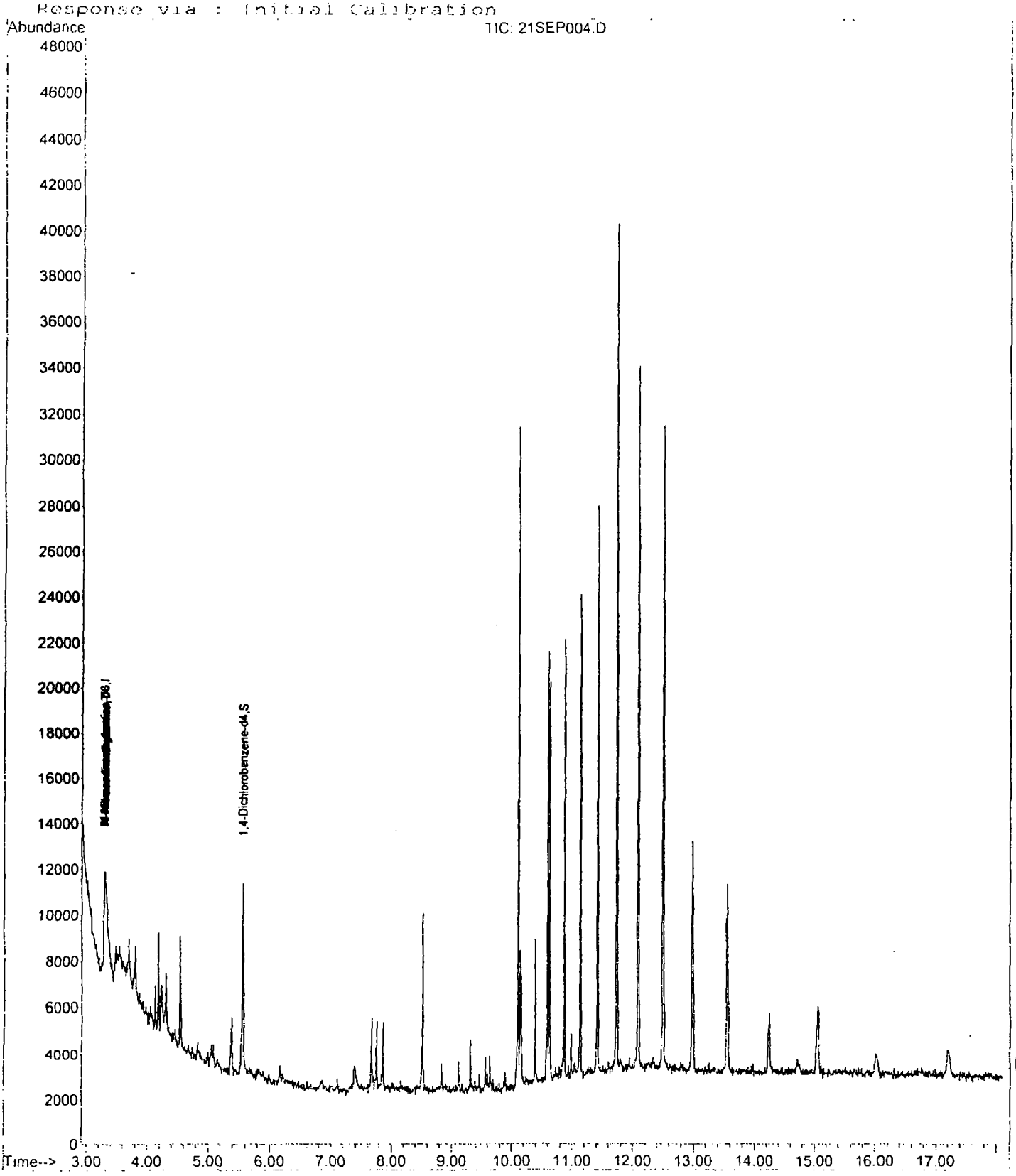
Internal Standards	R.T.	Qlon	Response	Conc	Units	Dev(Min)
1) N-Nitrosodimethylamine-d6	3.30	80	3948m	20.00	ug/l	0.03
System Monitoring Compounds						
3) 1,4-Dichlorobenzene-d4	5.55	150	6170m	10.03	ug/l	-0.08
Spiked Amount 20.000			Recovery	=	50.15%	
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.30	74	2263m	10.66	ug/l	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\060921\21SEP001.D Vial: 2
Acq Op : 21 Sep 2006 5:43 pm Operator:
Sample : NDMA 10PPB S0921065 Inst : [illegible]
Misc : Multiplier: [illegible]
MS Integration Params: rteint.p
Quant Time: Sep 22 8:42 2006 Quant Results File: NDMA060720.[illegible]

Method : C:\MSDCHEM\1\METHODS\NDMA060921.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Jul 21 16:56:30 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\060921\21SEP001.D Vial: 6
Acq Op : 21 Sep 2006 6:36 pm Operator :
Sample : NDMA 20PPB SD921UEH Inst : GCMS 4
Misc : Multiplier: 1.00
Integration Params: rteint.p
Quant Time: Sep 22 08:44:24 2006 Quant Results File: NDMA060720.RES

Quant Method : C:\MSDCHEM\1\METHODS\NDMA060720.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Jul 21 16:56:30 2006
Response via : Initial Calibration
DataAcq Meth : NDMASIM3

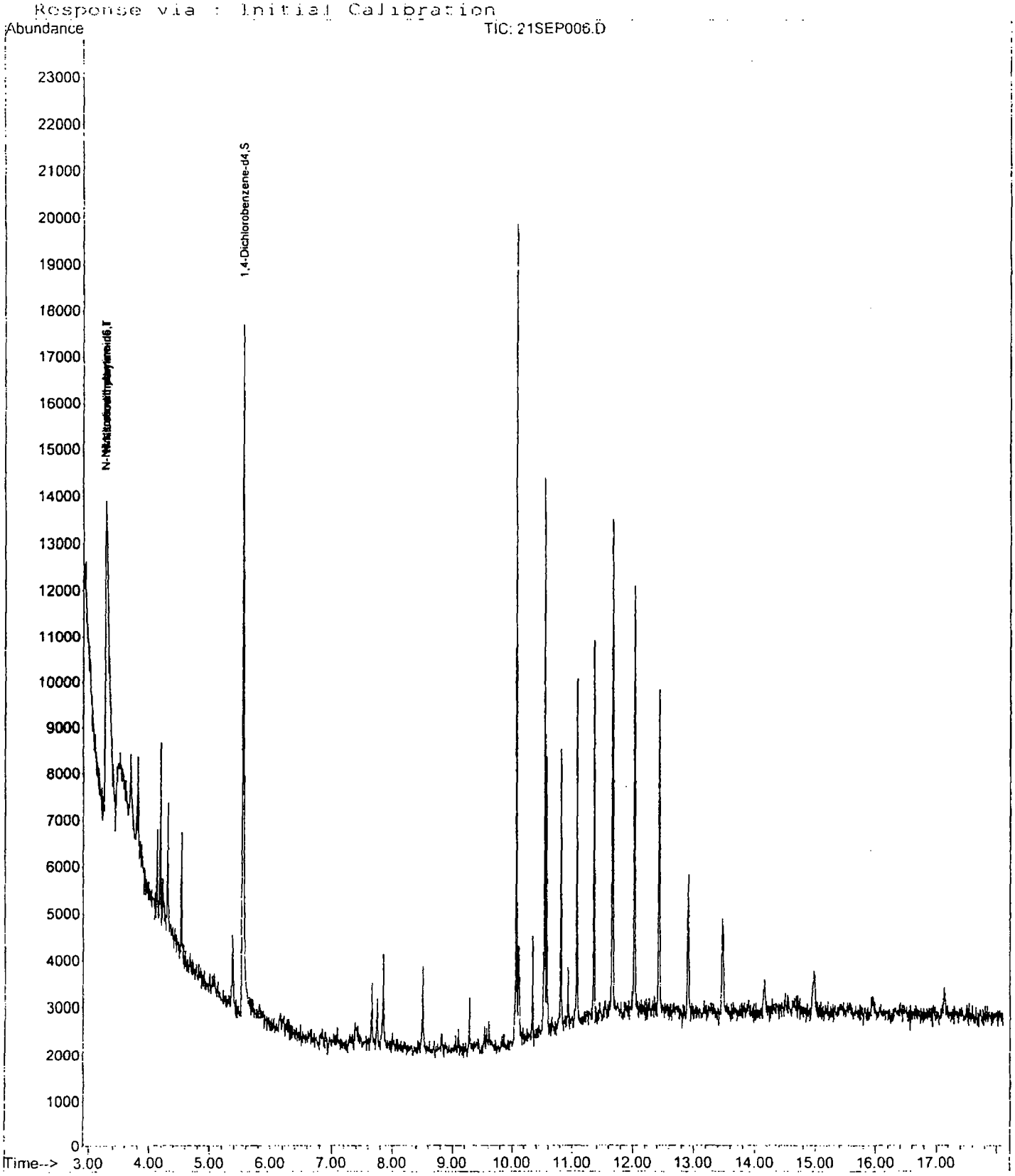
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) N-Nitrosodimethylamine-d6	3.28	80	3624m	20.00	ug/l	0.01
System Monitoring Compounds						
3) 1,4-Dichlorobenzene-d4	5.55	150	11690m	20.70	ug/l	-0.08
Spiked Amount 20.000			Recovery	=	103.50%	
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.29	74	4573m	23.46	ug/l	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\060921\21SEP006.D Vial: 4
Acq On : 21 Sep 2006 6:36 pm Operator:
Sample : NDMA 20PPB S0921064 Inst : GCMS 4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 22 9:16 2006 Quant Results File: NDMA060720.

Method : C:\MSDCHEM\1\METHODS\NDMA060921.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Jul 21 16:56:30 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\060921\21SEP008.D Vial : 5
Acq On : 21 Sep 2006 7:30 pm Operator:
Sample NDMA 50PPB 50921066 Inst : GCMS H
Misc : Multiplr: 1.00
Integration Params: rteint.p
Quant Time: Sep 22 09:06:46 2006 Quant Results File: NDMA060720.RES

Quant Method : C:\MSDCHEM\1\METHODS\NDMA060720.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Jul 21 16:56:30 2006
Response via : Initial Calibration
DataAcq Meth : NDMASIM3

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) N-Nitrosodimethylamine-d6	3.26	80	3589m	20.00 ug/l	0.00
System Monitoring Compounds					
3) 1,4-Dichlorobenzene-d4	5.55	150	28543m	51.03 ug/l	-0.08
Spiked Amount 20.000			Recovery	= 255.15%	
Target Compounds					Qvalue
2) N-Nitrosodimethylamine	3.27	74	10938m	56.66 ug/l	

(#) = qualifier out of range (m) = manual integration

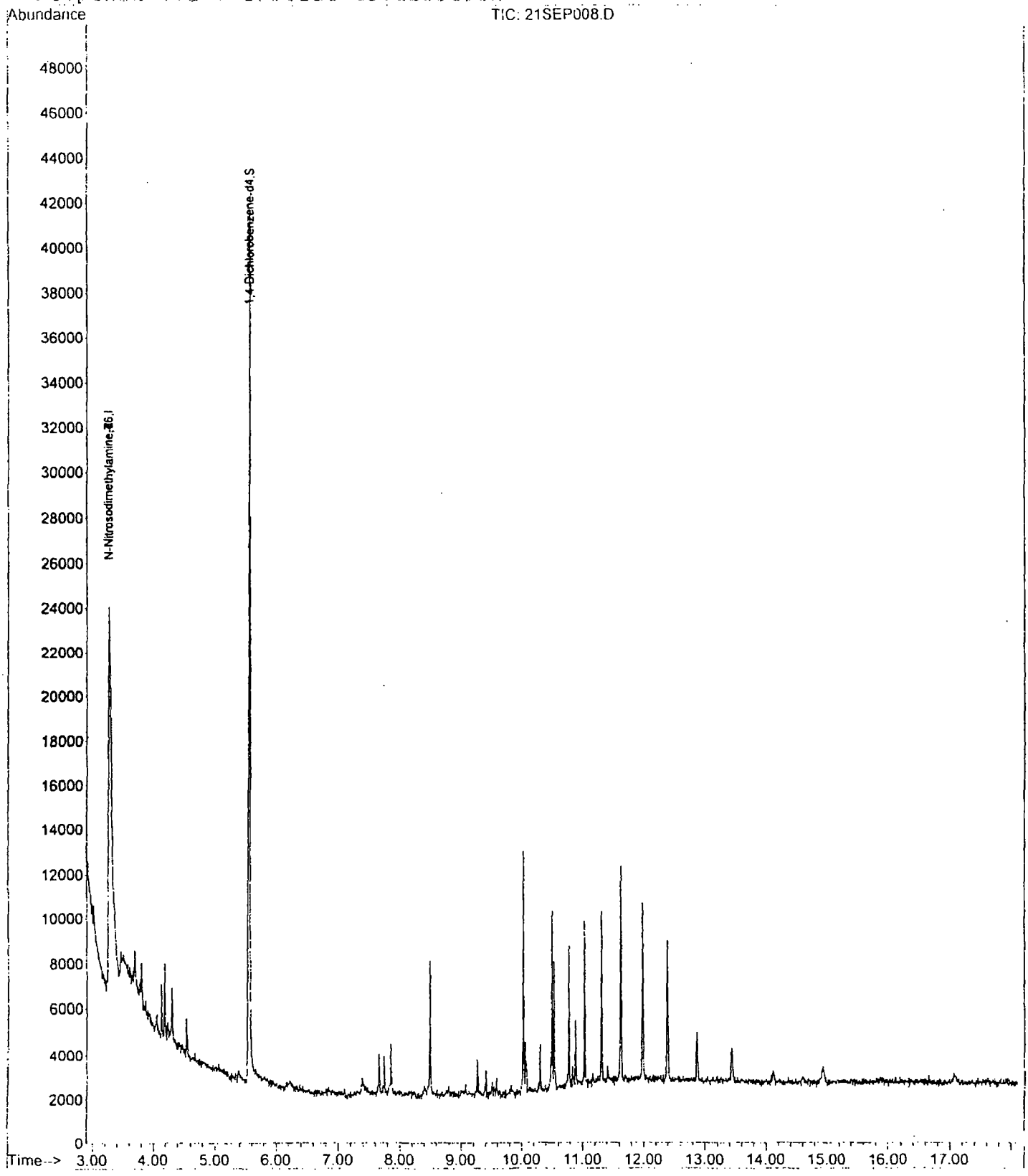
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\0509\1\21SEP008.D
Acq On : 21 Sep 2006 7:30 pm
Sample : NDMA 50PPB 50921066
Misc :
MS Integration Params: rteint.p
Quant Time: Sep 22 9:17 2006

Operator
Inst : [illegible]
Multiplr: [illegible]

Quant Results File: NDMA060720.

Method : C:\MSDCHEM\1\METHODS\NDMA060921.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Jul 21 16:56:30 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : [illegible] Vial: 6
Acq On : 21 Sep 2006 8:25 am Operator:
Sample : NDMA 100PPB S092106F Inst : GCMS B
Misc : Multiplier: 1.00
Integration Params: rteint.p
Quant Time: Sep 22 09:13:02 2006 Quant Results File: NDMA060720.RES

Quant Method : C:\MSDCHEM\1\METHODS\NDMA060720.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Jul 21 16:56:30 2006
Response via : Initial Calibration
DataAcq Meth : NDMASIM3

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) N-Nitrosodimethylamine-d6	3.25	80	4311m	20.00	ug/l	-0.02
System Monitoring Compounds						
3) 1,4-Dichlorobenzene-d4	5.55	150	61298m	91.24	ug/l	-0.08
Spiked Amount 20.000			Recovery	=	456.20%	
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.25	74	25088m	108.20	ug/l	

(#) = qualifier out of range (m) = manual integration

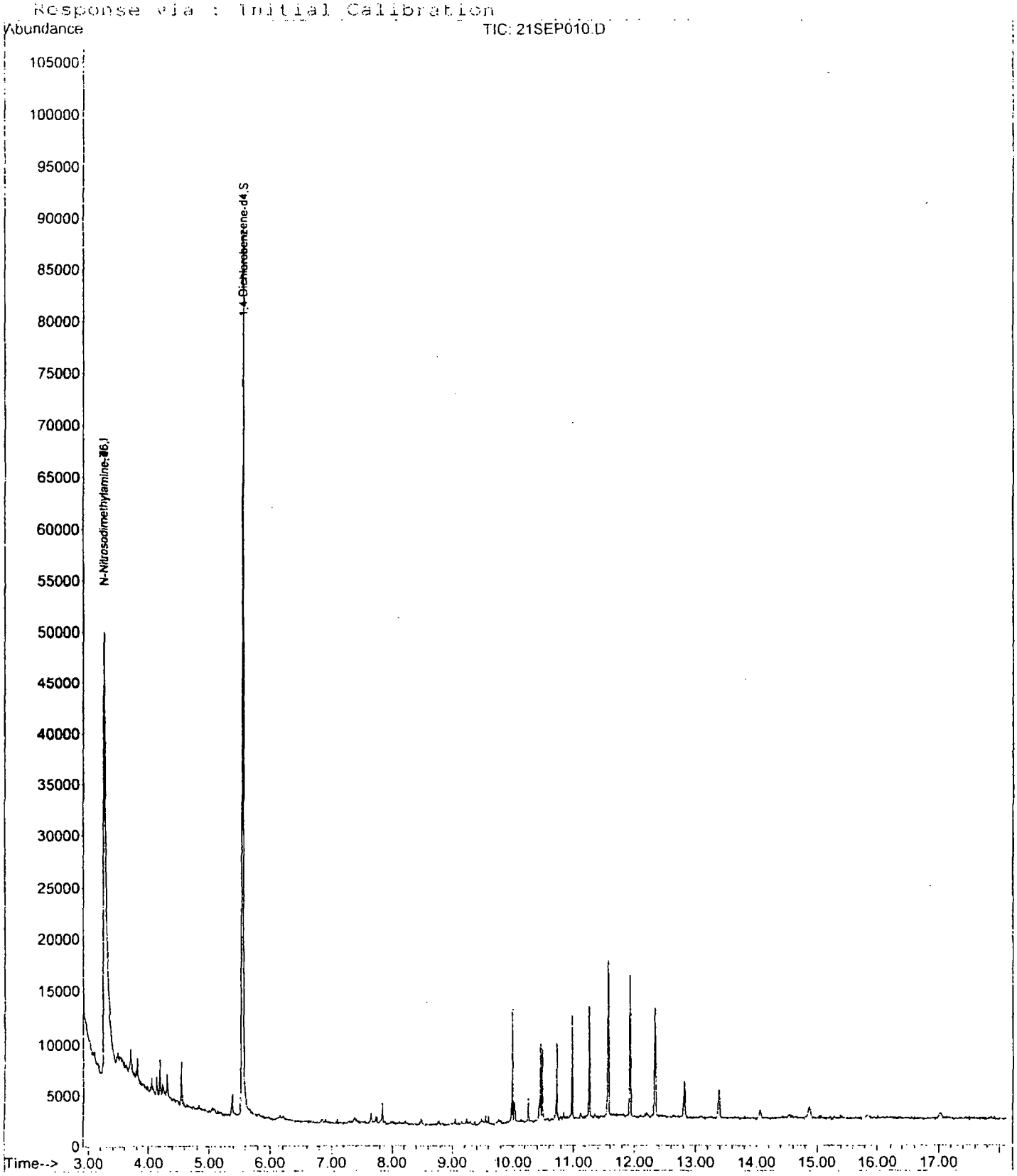
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\060921\21SEP010.D
Acq On : 21 Sep 2006 8:15 pm
Sample : NDMA 100PPB S092106U
Misc :
MS Integration Params: rteint.p
Quant Time: Sep 22 9:22 2006

Operator :
Inst : GCMS 6
Multiplier : 60

Quant Results File: NDMA060720.

Method : C:\MSDCHEM\1\METHODS\NDMA060921.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Jul 21 16:56:30 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\060921\21SEP012.D Vial: 7
Acq On : 21 Sep 2006 9:19 pm Operator:
Sample : NDMA 20 ICV 5061566L Inst : GCMS H
Misc : Multiplier: 1.00
Integration Params: rtenint.p
Quant Time: Sep 22 17:10:33 2006 Quant Results File: NDMA060921-3.RDX

Quant Method : C:\MSDCHEM\1...\NDMA060921-3.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Sep 22 17:10:12 2006
Response via : Initial Calibration
DataAcq Meth : NDMASIM3

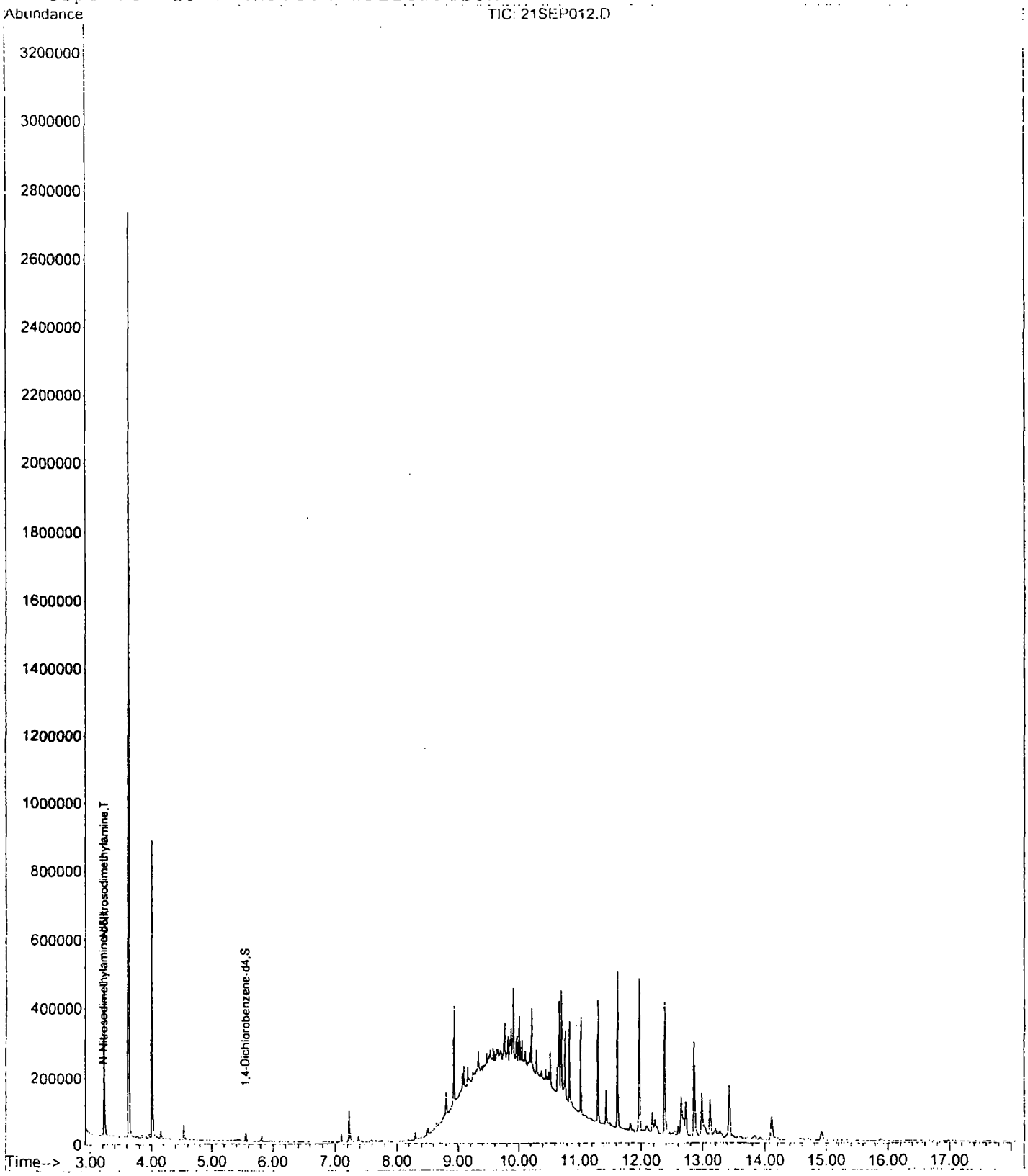
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) N-Nitrosodimethylamine-d6	3.20	80	3763m	20.00	ug/l	-0.08
System Monitoring Compounds						
3) 1,4-Dichlorobenzene-d4	5.55	150	13341	23.08	ug/l	0.00
Spiked Amount 20.000			Recovery	=	115.40%	
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.21	74	3744	16.69	ug/l #	57

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\060921\21SEP012.D Vial: [illegible]
Acq On : 21 Sep 2006 9:19 pm Operator:
Sample : NDMA 20 ICV 5061506L Inst : GCMS II
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 22 17:11 2006 Quant Results File: NDMA060921

Method : C:\MSDCHEM\1\METHODS\NDMA060921-3.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Sep 22 17:10:12 2006
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\060921\2 SEP012.D Vial: 7
Acq On : 21 Sep 2006 5:10 pm Operator
Sample : NDMA 20 ICV 506:706L Inst : GCMS 6
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\NDMA060921 3.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Sep 22 17:10:12 2006
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	N-Nitrosodimethylamine-d6	1.000	1.000	0.0	104	-0.08
2	T	N-Nitrosodimethylamine	1.192	0.995	16.5	82	-0.08
3	S	1,4-Dichlorobenzene-d4	3.072	3.545	-15.4	114	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Injection Log

Directory: C:\MSDCHEM\1\DATA\061005

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	05OCT001.D	1.	NDMA 20PPB S061606G		5 Oct 2006 11:42
2	2	05OCT002.D	1.	NDMA MB 061003-L02		5 Oct 2006 12:23
3	3	05OCT003.D	1.	NDMA LCS 061003-L02		5 Oct 2006 12:50
4	4	05OCT004.D	1.	NDMA LCSD 061003-L02		5 Oct 2006 13:17
5	5	05OCT005.D	1.	09-1678-1 MS		5 Oct 2006 13:45
6	6	05OCT006.D	1.	09-1678-1 MSD		5 Oct 2006 14:12
7	7	05OCT007.D	1.	09-1679-2 MS		5 Oct 2006 14:39
8	8	05OCT008.D	1.	09-1679-2 MSD		5 Oct 2006 15:05
9	9	05OCT009.D	1.	09-1678-1		5 Oct 2006 15:32
10	10	05OCT010.D	1.	09-1678-2		5 Oct 2006 15:59
11	11	05OCT011.D	1.	09-1679-2		5 Oct 2006 16:26
12	12	05OCT012.D	1.	09-1679-3		5 Oct 2006 16:53
13	13	05OCT013.D	1.	09-1679-4		5 Oct 2006 17:20
14	14	05OCT014.D	1.	09-1498-2		5 Oct 2006 17:48
15	15	05OCT015.D	1.	09-1498-3		5 Oct 2006 18:15
16	16	05OCT016.D	1.	09-1498-4		5 Oct 2006 18:42
17	17	05OCT017.D	1.	09-1593-2		5 Oct 2006 19:09
18	18	05OCT018.D	1.	09-1593-3		5 Oct 2006 19:37
19	20	05OCT020.D	1.	09-1593-5		5 Oct 2006 20:31
20	21	05OCT021.D	1.	09-1427-2		5 Oct 2006 20:58
21	22	05OCT022.D	1.	09-1427-3		5 Oct 2006 21:25
22	24	05OCT024.D	1.	09-1427-5		5 Oct 2006 22:19
23	25	05OCT025.D	1.	09-1427-6		5 Oct 2006 22:47
24	26	05OCT026.D	1.	09-1474-1		5 Oct 2006 23:14

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\061005\05OCT001.D Vial: 1
Acq On : 5 Oct 2006 11:42 am Operator:
Sample : NDMA 20PPB S061606G Inst : GCMS_H
Misc : Multiplr: 1.00
Integration Params: rteint.p
Quant Time: Oct 05 12:19:52 2006 Quant Results File: NDMA060921.RES

Quant Method : C:\MSDCHEM\1\METHODS\NDMA060921.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Sep 22 17:10:12 2006
Response via : Initial Calibration
DataAcq Meth : NDMASIM3

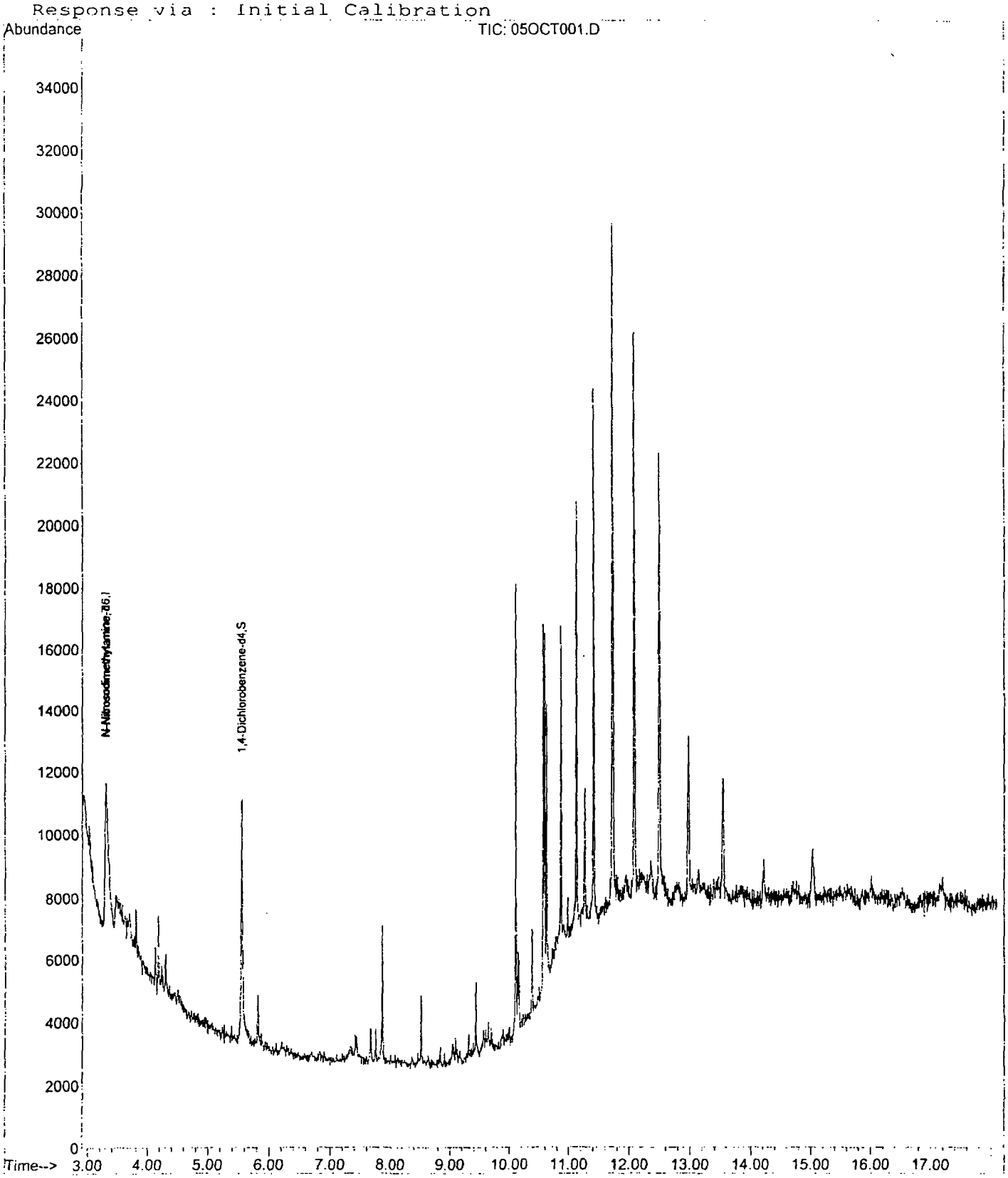
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) N-Nitrosodimethylamine-d6	3.29	80	2688m	20.00	ug/l	0.00
System Monitoring Compounds						
3) 1,4-Dichlorobenzene-d4	5.55	150	6699	16.23	ug/l	0.00
Spiked Amount 20.000			Recovery =	81.15%		
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.31	74	3641	22.72	ug/l #	45

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\061005\05OCT001.D Vial: 1
Acq On : 5 Oct 2006 11:42 am Operator:
Sample : NDMA 20PPB S061606G Inst : GCMS_H
Misc : Multipl: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 6 17:05 2006 Quant Results File: NDMA060921.

Method : C:\MSDCHEM\1\METHODS\NDMA060921.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Sep 22 17:10:12 2006
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\061005\05OCT001.D Vial: 1
Acq On : 5 Oct 2006 11:42 am Operator:
Sample : NDMA 20PPB S061606G Inst : GCMS_H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\NDMA060921.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Sep 22 17:10:12 2006
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	N-Nitrosodimethylamine-d6	1.000	1.000	0.0	74	0.00
2	T	N-Nitrosodimethylamine	1.192	1.355	-13.7	80	0.02
3	S	1,4-Dichlorobenzene-d4	3.072	2.492	18.9	57	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\061005\05OCT002.D Vial: 2
Acq On : 5 Oct 2006 12:23 pm Operator:
Sample : NDMA MB 061003-L02 Inst : GCMS_H
Misc : Multipli: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 05 14:37:50 2006 Quant Results File: NDMA060921.RES

Quant Method : C:\MSDCHEM\1\METHODS\NDMA060921.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Sep 22 17:10:12 2006
Response via : Initial Calibration
DataAcq Meth : NDMASIM3

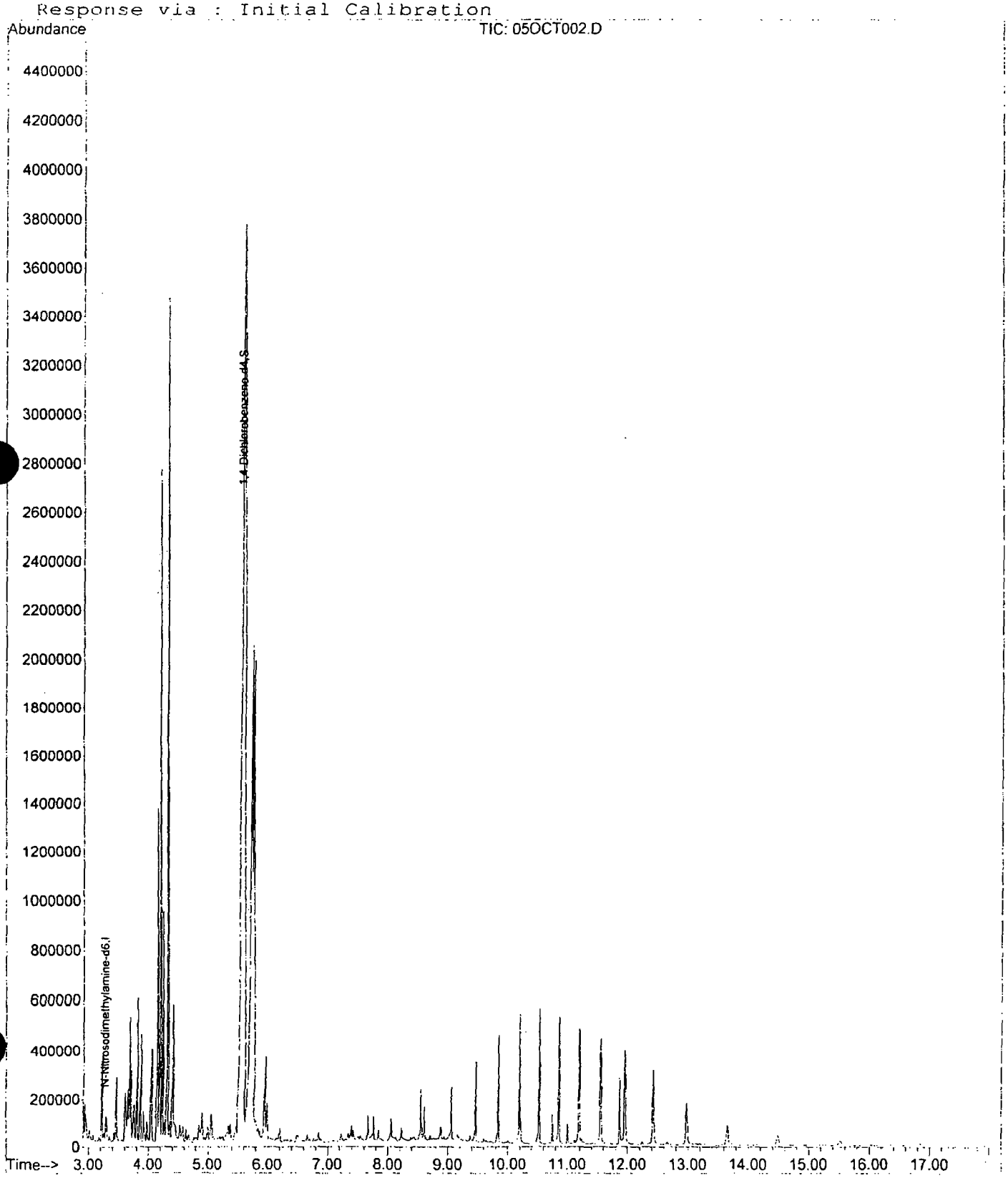
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) N-Nitrosodimethylamine-d6	3.25	80	2742	20.00 ug/l	-0.03
System Monitoring Compounds					
3) 1,4-Dichlorobenzene-d4	5.55	150	6396	15.19 ug/l	0.00
Spiked Amount 20.000			Recovery	= 75.95%	
Target Compounds					Qvalue
2) N-Nitrosodimethylamine	0.00	74	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\061005\05OCT002.D Vial: 2
Acq On : 5 Oct 2006 12:23 pm Operator:
Sample : NDMA MB 061003-L02 Inst : GCMS_H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 5 14:37 2006 Quant Results File: NDMA060921.RE:

Method : C:\MSDCHEM\1\METHODS\NDMA060921.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Sep 22 17:10:12 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\061005\05OCT003.D Vial: 3
Acq On : 5 Oct 2006 12:50 pm Operator:
Sample : NDMA LCS 061003-L02 Inst : GCMS_H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 05 14:38:16 2006 Quant Results File: NDMA060921.RES

Quant Method : C:\MSDCHEM\1\METHODS\NDMA060921.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Sep 22 17:10:12 2006
Response via : Initial Calibration
DataAcq Meth : NDMASIM3

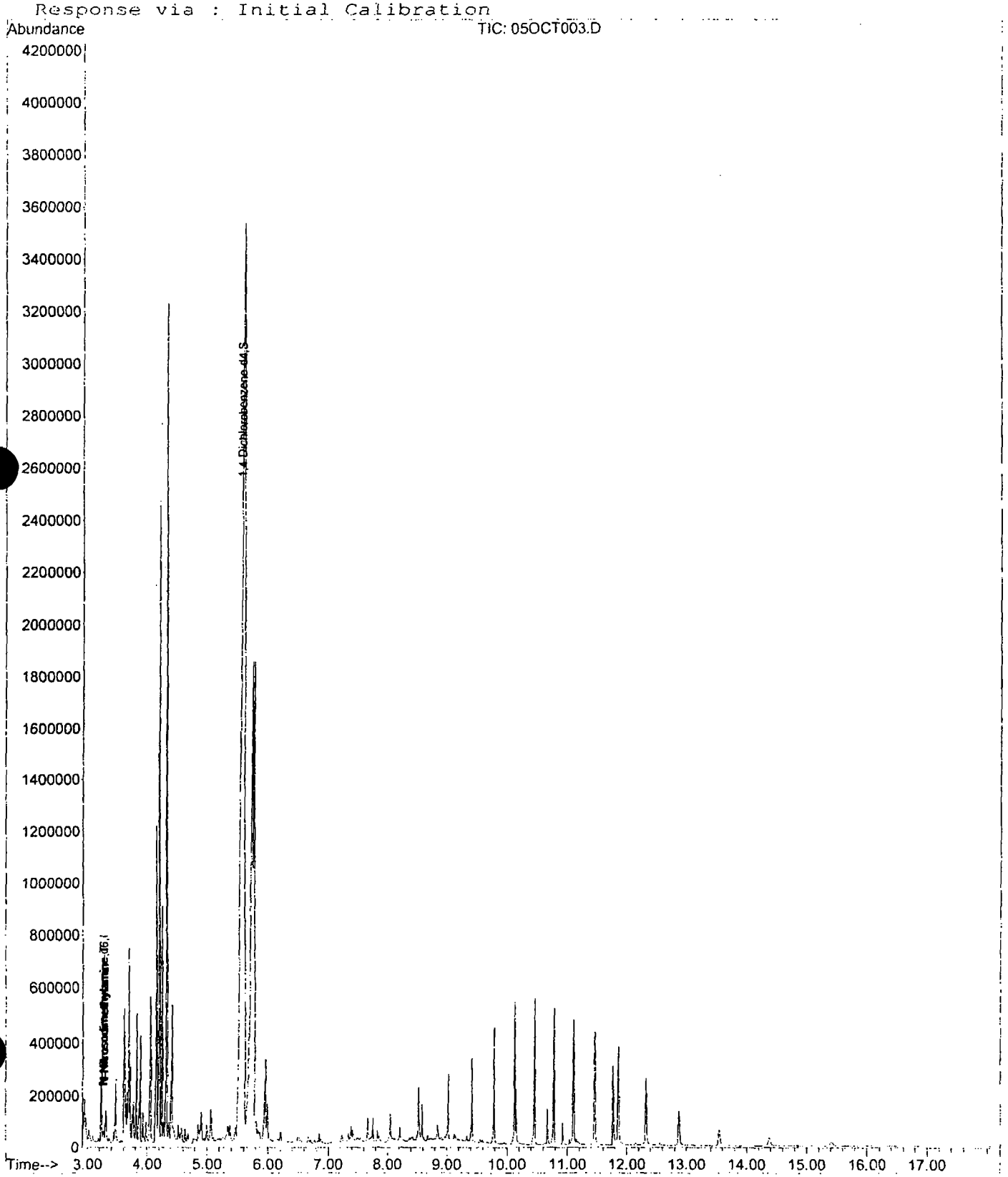
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) N-Nitrosodimethylamine-d6	3.25	80	2833	20.00 ug/l	-0.03
System Monitoring Compounds					
3) 1,4-Dichlorobenzene-d4	5.55	150	5957	13.69 ug/l	0.00
Spiked Amount 20.000			Recovery =	68.45%	
Target Compounds					Qvalue
2) N-Nitrosodimethylamine	3.26	74	3275	19.39 ug/l #	1

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\061005\05OCT003.D Vial: 3
Acq On : 5 Oct 2006 12:50 pm Operator:
Sample : NDMA LCS 061003-L02 Inst : GCMS_H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 5 14:38 2006 Quant Results File: NDMA060921.RES

Method : C:\MSDCHEM\1\METHODS\NDMA060921.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Sep 22 17:10:12 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\061005\05OCT004.D Vial: 4
Acq On : 5 Oct 2006 1:17 pm Operator:
Sample : NDMA LCSD 061003-L02 Inst : GCMS_H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 05 14:38:37 2006 Quant Results File: NDMA060921.RES

Quant Method : C:\MSDCHEM\1\METHODS\NDMA060921.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Sep 22 17:10:12 2006
Response via : Initial Calibration
DataAcq Meth : NDMASIM3

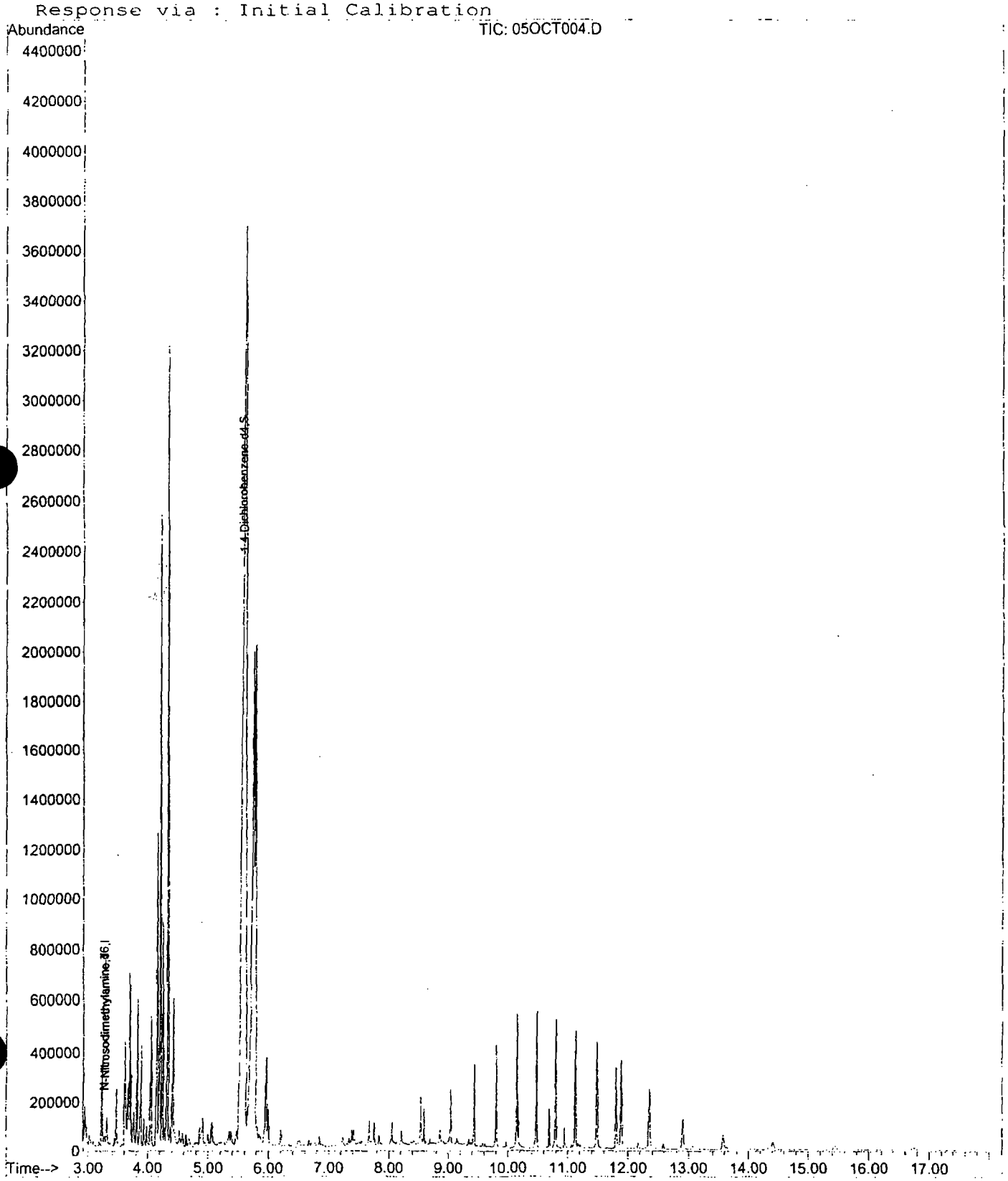
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) N-Nitrosodimethylamine-d6	3.25	80	2719	20.00 ug/l	-0.03
System Monitoring Compounds					
3) 1,4-Dichlorobenzene-d4	5.55	150	4925	11.79 ug/l	0.00
Spiked Amount 20.000			Recovery	= 58.95%	
Target Compounds					Qvalue
2) N-Nitrosodimethylamine	3.26	74	3095	19.09 ug/l #	1

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\061005\05OCT004.D Vial: 4
Acq On : 5 Oct 2006 1:17 pm Operator:
Sample : NDMA LCSD 061003-L02 Inst : GCMS_H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 5 14:38 2006 Quant Results File: NDMA060921.RES

Method : C:\MSDCHEM\1\METHODS\NDMA060921.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Sep 22 17:10:12 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\061005\05OCT007.D Vial: 7
Acq On : 5 Oct 2006 2:38 pm Operator:
Sample : 05 1673 2 MS Inst : GCMS II
Misc : Multiple Sample

ES Integration Params: rtein.p
Dosan Time: Oct 06 08:10:00 2006 Quant Results File: NDMA060921.RES

Quant Method : C:\MSDCHEM\1\METHODS\NDMA060921.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Sep 22 17:10:12 2006
Response via : Initial Calibration
DataAcq Meth : NDMASIM3

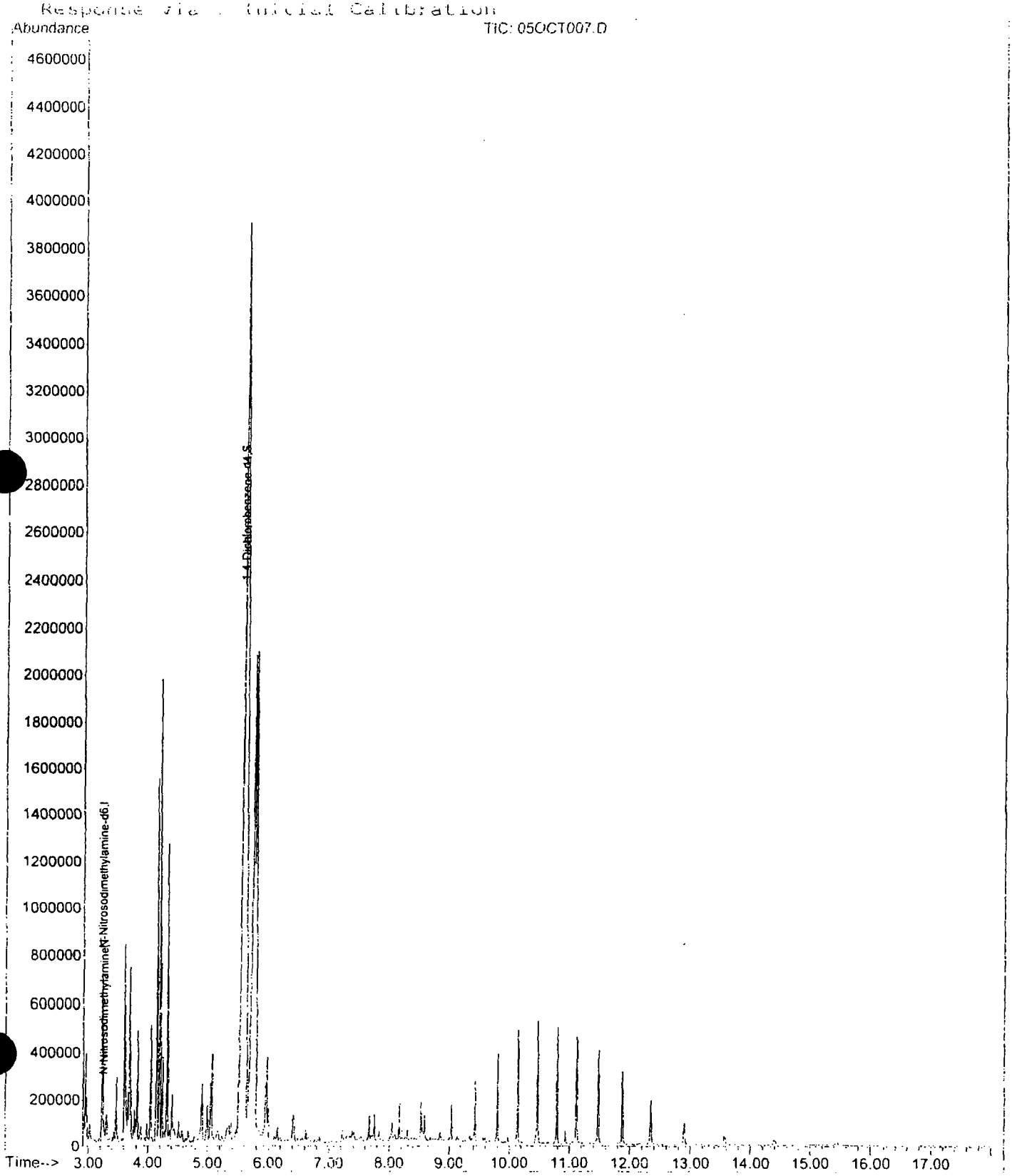
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) N-Nitrosodimethylamine-d6	3.24	80	3405	20.00 ug/l	-0.04
System Monitoring Compounds					
3) 1,4-Dichlorobenzene-d4	5.55	150	5162	9.87 ug/l	0.00
Spiked Amount 20.000			Recovery	= 49.35%	
Target Compounds					Qvalue
2) N-Nitrosodimethylamine	3.26	74	2679	13.20 ug/l #	38

(#) - qualifier out of range (m) = manual integration

Quantitation Report

Quant Time: Oct 6 8:10 2006 Quant Results File: NDMA060921.RES

Method : C:\MSDCHEM\1\METHODS\NDMA060921.M (RTE Integrator)
Title : Cte BNA Calibration
Last Update : Fri Sep 22 17:10:12 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

[illegible]

Quant Time: Oct 08 08:10:11 2006 Quant Results File: NDMA060921.RES

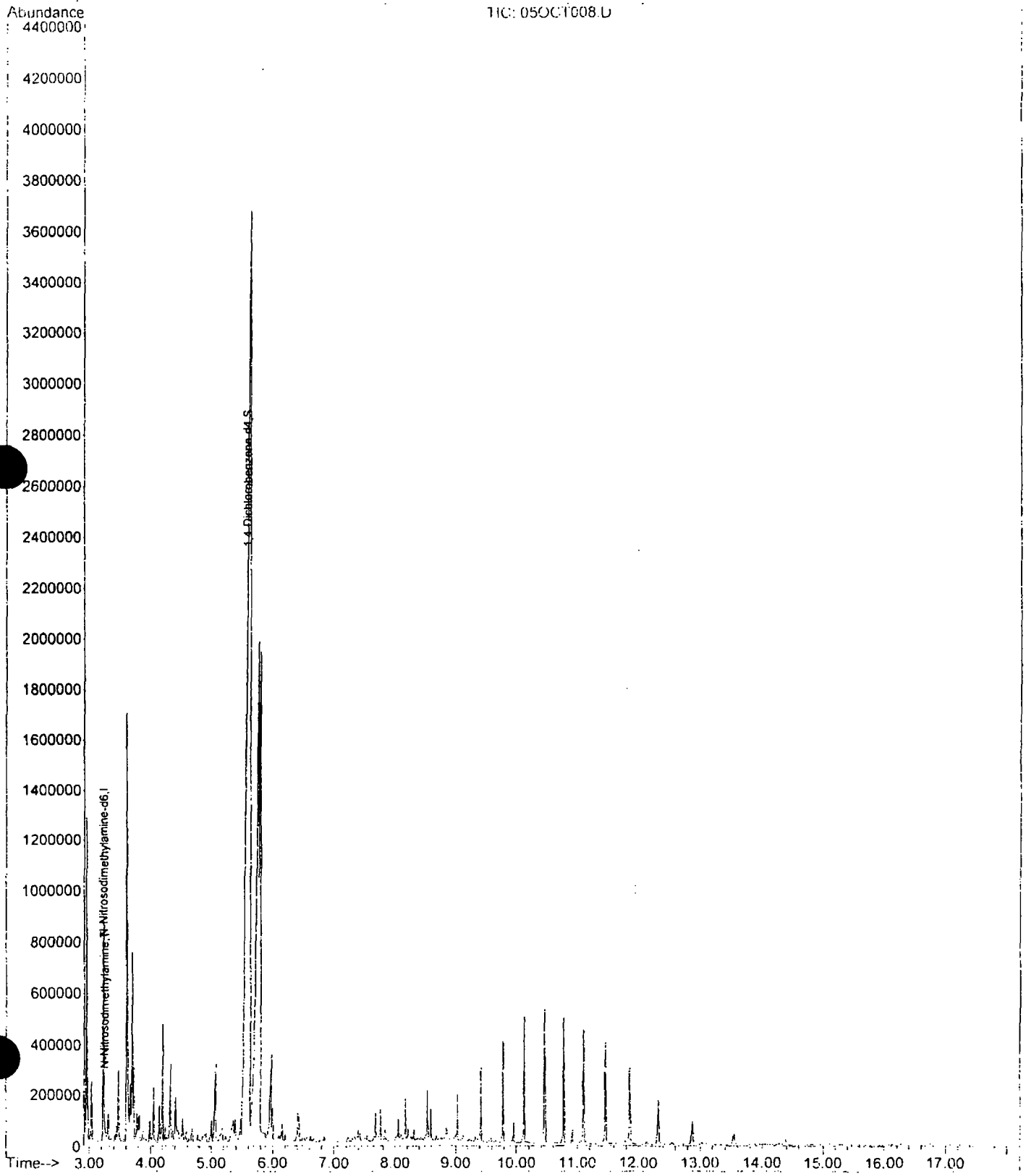
Quant Method : C:\MSDCHEM\1\METHODS\NDMA060921.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Sep 22 17:10:12 2006
Response via : Initial Calibration
DataAcq Meth : NDMASIM3

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) N-Nitrosodimethylamine-d6	3.24	80	3580	20.00 ug/l	-0.04
System Monitoring Compounds					
3) 1,4-Dichlorobenzene-d4	5.55	150	5216	9.49 ug/l	0.00
Spiked Amount 20.000			Recovery	= 47.45%	
Target Compounds					Qvalue
2) N-Nitrosodimethylamine	3.25	74	2512	11.77 ug/l #	60

(#) = qualifier out of range (m) = manual integration

Quant Time: Oct 9 8:0 2006 Quant Results File: NDMA060921.TIL

Method : C:\MSD\NDMA\METHODS\NDMA060921.M (RTE Integrator)
Title : CLP CNA Calibration
Last Update : Fri Sep 22 17:10:12 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\061005\05OCT011.D Vial: 11
Acq On : 5 Oct 2006 4:26 pm Operator:
Sample : 09-1679-2 Inst : GCMS_H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 06 08:11:57 2006 Quant Results File: NDMA060921.RES

Quant Method : C:\MSDCHEM\1\METHODS\NDMA060921.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Sep 22 17:10:12 2006
Response via : Initial Calibration
DataAcq Meth : NDMASIM3

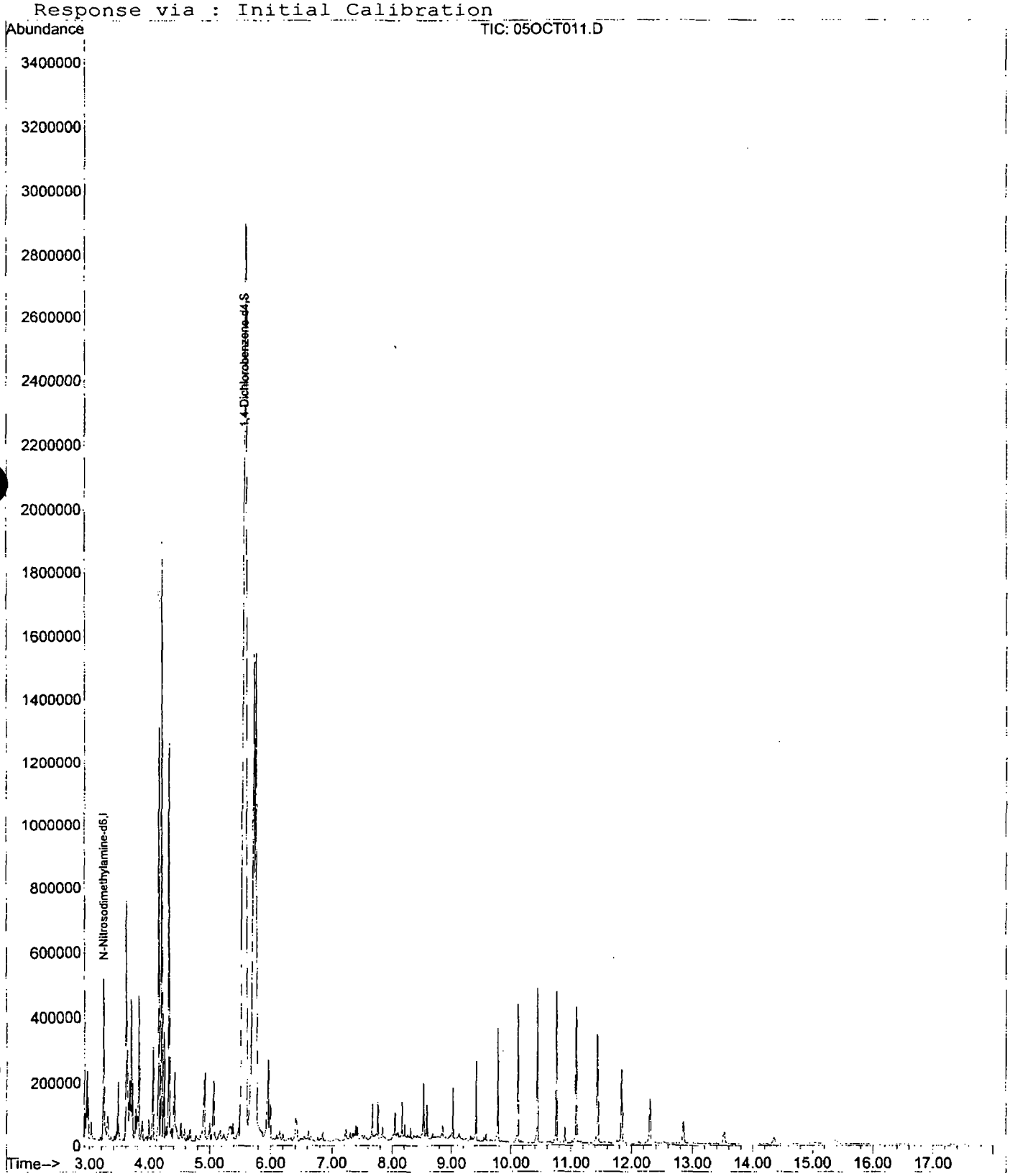
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) N-Nitrosodimethylamine-d6	3.24	80	2275m	20.00 ug/l	-0.04
System Monitoring Compounds					
3) 1,4-Dichlorobenzene-d4	5.55	150	3953	11.31 ug/l	0.00
Spiked Amount 20.000			Recovery =	56.55%	
Target Compounds					Qvalue
2) N-Nitrosodimethylamine	0.00	74	0	N.D.	d

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\061005\05OCT011.D Vial: 11
Acq On : 5 Oct 2006 4:26 pm Operator:
Sample : 09-1679-2 Inst : GCMS_H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 6 8:12 2006 Quant Results File: NDMA060921.RE

Method : C:\MSDCHEM\1\METHODS\NDMA060921.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Sep 22 17:10:12 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\061005\05OCT012.D Vial: 12
Acq On : 5 Oct 2006 4:53 pm Operator:
Sample : 09-1679-3 Inst : GCMS_H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 06 08:12:30 2006 Quant Results File: NDMA060921.RE

Quant Method : C:\MSDCHEM\1\METHODS\NDMA060921.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Sep 22 17:10:12 2006
Response via : Initial Calibration
DataAcq Meth : NDMASIM3

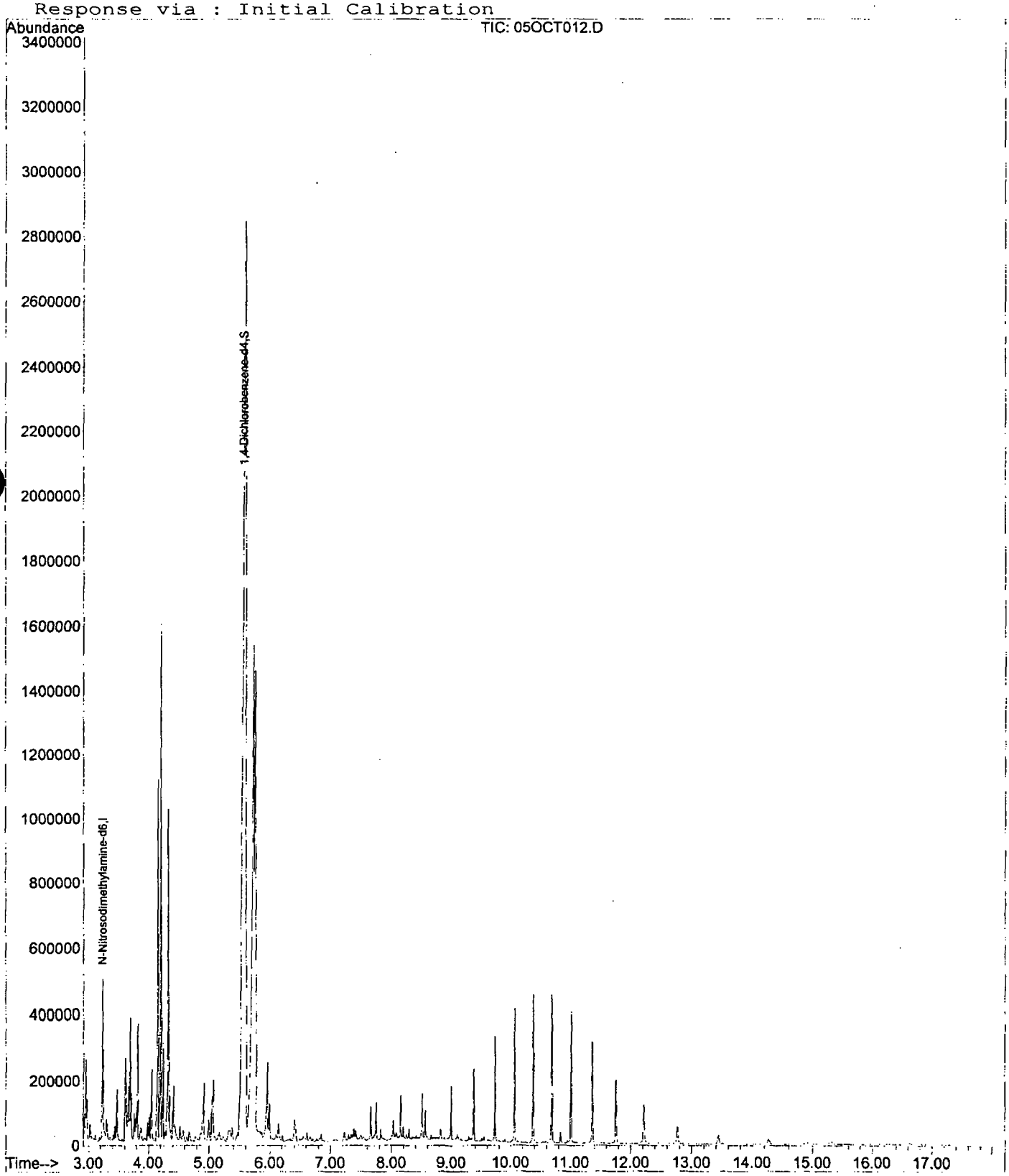
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) N-Nitrosodimethylamine-d6	3.24	80	2148m	20.00	ug/l	-0.04
System Monitoring Compounds						
3) 1,4-Dichlorobenzene-d4	5.55	150	3357	10.18	ug/l	0.00
Spiked Amount 20.000			Recovery =	50.90%		
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	0.00	74	0	N.D.	d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\061005\05OCT012.D Vial: 12
Acq On : 5 Oct 2006 4:53 pm Operator:
Sample : 09-1679-3 Inst : GCMS_H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 6 8:13 2006 Quant Results File: NDMA060921.RE

Method : C:\MSDCHEM\1\METHODS\NDMA060921.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Sep 22 17:10:12 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\061005\05OCT013.D Vial: 13
Acq On : 5 Oct 2006 5:20 pm Operator:
Sample : 09-1679-4 Inst : GCMS_H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 06 08:13:11 2006 Quant Results File: NDMA060921.RES

Quant Method : C:\MSDCHEM\1\METHODS\NDMA060921.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Sep 22 17:10:12 2006
Response via : Initial Calibration
DataAcq Meth : NDMASIM3

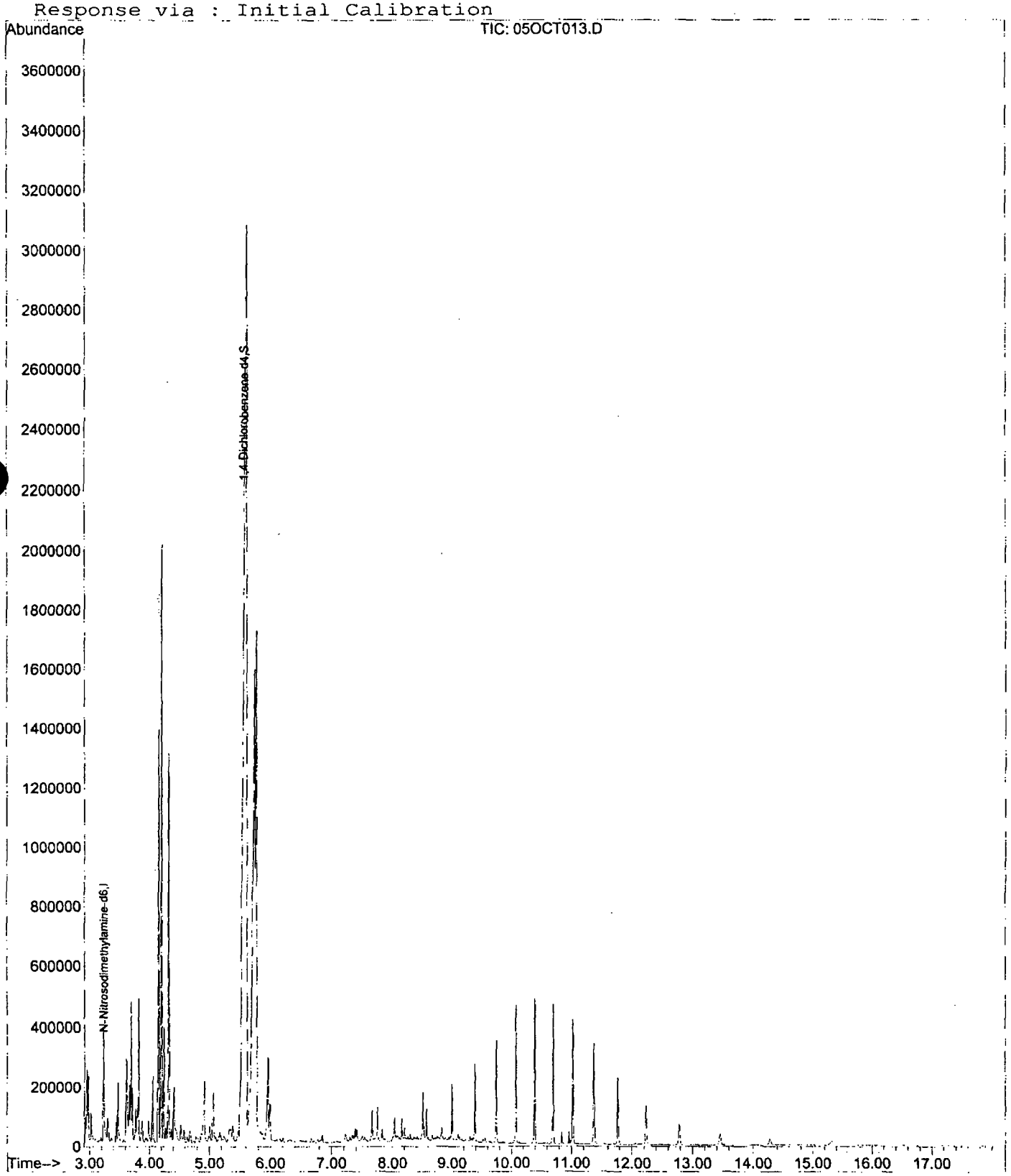
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) N-Nitrosodimethylamine-d6	3.24	80	2694	20.00	ug/l	-0.04
System Monitoring Compounds						
3) 1,4-Dichlorobenzene-d4	5.55	150	4254	10.28	ug/l	0.00
Spiked Amount 20.000			Recovery = 51.40%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	0.00	74	0	N.D.	d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\061005\05OCT013.D Vial: 13
Acq On : 5 Oct 2006 5:20 pm Operator:
Sample : 09-1679-4 Inst : GCMS_H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 6 8:13 2006 Quant Results File: NDMA060921.RES

Method : C:\MSDCHEM\1\METHODS\NDMA060921.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Sep 22 17:10:12 2006
Response via : Initial Calibration



Calscience
Environmental
Laboratories, Inc.

October 24, 2006

Neil Shukla
Tetra Tech, Inc.
3475 East Foothill Blvd., Suite 300
Pasadena, CA 91107-6024

Subject: **Calscience Work Order No.: 06-09-1593**
Client Reference: BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 9/28/2006 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.
Jason Torres
Project Manager

Calscience
Environmental
Laboratories, Inc.

Case Narrative for 06-09-1593

Provided below is a narrative of our analytical effort for N-Nitrosodimethylamine (NDMA) analysis by EPA 1625C(M), including any unique features or anomalies encountered during analysis of the samples.

Sample Condition on Receipt

Six aqueous samples were received as part of this Work Order on September 28, 2006. The samples were transferred to the laboratory in an ice-chest following strict chain-of-custody procedures. The temperature (3.1°C) of the samples was measured upon arrival in the laboratory and was within acceptable limits. The samples were logged into the Laboratory Information Management System (LIMS), given laboratory identification numbers, and stored in refrigeration units pending analysis.

Data Summary (NDMA analysis only)

Holding Times

All holding time requirements were met.

Calibration

Frequency and control criteria for initial and continuing calibration verifications were met.

Blanks

The method blank data showed non-detectable levels for all constituents.

Matrix Spikes

Matrix Spikes (MS) and Matrix Spike Duplicates (MSD) were performed at required frequencies. All recoveries were within acceptable limits.

7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX:(714) 894-7501

Calscience Environmental Laboratories, Inc.

Case Narrative for 06-09-1593

Laboratory Control Samples

The Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) analyses were performed at the required frequencies. All recoveries were within acceptable limits.

Surrogates

Surrogate recoveries for all samples were within acceptable control limits.

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Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.
3475 East Foothill Blvd., Suite 300
Pasadena, CA 91107-6024

Date Received: 09/28/06
Work Order No: 06-09-1593
Preparation: EPA 3005A Filt. / EPA 7470A Filt.
Method: EPA 6010B / EPA 7470A
Units: mg/L

Project: BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MW-7	06-09-1593-2	09/28/06	Aqueous	09/29/06	09/30/06	060929L03F

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.
-Mercury was analyzed on 9/29/2006 1:33:04 PM with batch 060929L01

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Antimony	ND	0.0150	0.00209	1		Mercury	ND	0.000500	0.0000672	1	
Arsenic	ND	0.0100	0.00308	1		Molybdenum	0.00158	0.00500	0.000800	1	J
Barium	0.151	0.010	0.000719	1		Nickel	ND	0.00500	0.00137	1	
Beryllium	0.000325	0.00100	0.000176	1	J,B	Selenium	0.00711	0.0150	0.00295	1	J,B
Cadmium	ND	0.00500	0.000350	1		Silver	ND	0.00500	0.000400	1	
Chromium	0.0112	0.0050	0.000350	1		Thallium	0.00460	0.0150	0.00233	1	J
Cobalt	ND	0.00500	0.000696	1		Vanadium	0.00146	0.00500	0.000314	1	J
Copper	0.00751	0.00500	0.00134	1	B	Zinc	0.00215	0.0100	0.000848	1	J
Lead	ND	0.0100	0.00236	1							

MW-8	06-09-1593-3	09/28/06	Aqueous	09/29/06	09/30/06	060929L03F

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.
-Mercury was analyzed on 9/29/2006 1:35:22 PM with batch 060929L01

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Antimony	0.00318	0.0150	0.00209	1	J	Mercury	ND	0.000500	0.0000672	1	
Arsenic	ND	0.0100	0.00308	1		Molybdenum	0.00107	0.00500	0.000800	1	J
Barium	0.146	0.010	0.000719	1		Nickel	ND	0.00500	0.00137	1	
Beryllium	0.000349	0.00100	0.000176	1	J,B	Selenium	0.00882	0.0150	0.00295	1	J,B
Cadmium	ND	0.00500	0.000350	1		Silver	ND	0.00500	0.000400	1	
Chromium	0.00621	0.00500	0.000350	1		Thallium	0.00723	0.0150	0.00233	1	J
Cobalt	ND	0.00500	0.000696	1		Vanadium	0.00176	0.00500	0.000314	1	J
Copper	0.00423	0.00500	0.00134	1	J,B	Zinc	0.00171	0.0100	0.000848	1	J
Lead	ND	0.0100	0.00236	1							

MW-3	06-09-1593-4	09/28/06	Aqueous	09/29/06	09/30/06	060929L03F

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.
-Mercury was analyzed on 9/29/2006 1:37:36 PM with batch 060929L01

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Antimony	0.00376	0.0150	0.00209	1	J	Mercury	ND	0.000500	0.0000672	1	
Arsenic	ND	0.0100	0.00308	1		Molybdenum	ND	0.00500	0.000800	1	
Barium	0.145	0.010	0.000719	1		Nickel	ND	0.00500	0.00137	1	
Beryllium	0.000269	0.00100	0.000176	1	J,B	Selenium	0.00952	0.0150	0.00295	1	J,B
Cadmium	ND	0.00500	0.000350	1		Silver	ND	0.00500	0.000400	1	
Chromium	0.0109	0.0050	0.000350	1		Thallium	ND	0.0150	0.00233	1	
Cobalt	ND	0.00500	0.000696	1		Vanadium	ND	0.00500	0.000314	1	
Copper	0.00681	0.00500	0.00134	1	B	Zinc	ND	0.0100	0.000848	1	
Lead	ND	0.0100	0.00236	1							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.
3475 East Foothill Blvd., Suite 300
Pasadena, CA 91107-6024

Date Received: 09/28/06
Work Order No: 06-09-1593
Preparation: EPA 3005A Filt. / EPA 7470A Filt.
Method: EPA 6010B / EPA 7470A
Units: mg/L

Project: BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MW-5	**06-09-1593-5**	**09/28/06**	**Aqueous**	**09/29/06**	**09/30/06**	**060929L03F**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.
-Mercury was analyzed on 9/29/2006 1:39:48 PM with batch 060929L01

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Antimony	ND	0.0150	0.00209	1		Mercury	ND	0.000500	0.0000672	1	
Arsenic	ND	0.0100	0.00308	1		Molybdenum	ND	0.00500	0.000800	1	
Barium	0.144	0.010	0.000719	1		Nickel	ND	0.00500	0.00137	1	
Beryllium	0.000275	0.00100	0.000176	1	J,B	Selenium	0.0159	0.0150	0.00295	1	B
Cadmium	ND	0.00500	0.000350	1		Silver	ND	0.00500	0.000400	1	
Chromium	0.0109	0.0050	0.000350	1		Thallium	ND	0.0150	0.00233	1	
Cobalt	ND	0.00500	0.000696	1		Vanadium	ND	0.00500	0.000314	1	
Copper	0.00715	0.00500	0.00134	1	B	Zinc	ND	0.0100	0.000848	1	
Lead	ND	0.0100	0.00236	1							

Method Blank	**099-04-008-2,671**	**N/A**	**Aqueous**	**09/29/06**	**09/29/06**	**060929L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual
Mercury	ND	0.000500	0.0000672	1	

Method Blank	**097-01-003-6,506**	**N/A**	**Aqueous**	**09/29/06**	**09/30/06**	**060929L03F**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Antimony	ND	0.0150	0.00209	1		Lead	ND	0.0100	0.00236	1	
Arsenic	ND	0.0100	0.00308	1		Molybdenum	ND	0.00500	0.000800	1	
Barium	ND	0.0100	0.000719	1		Nickel	ND	0.00500	0.00137	1	
Beryllium	0.000255	0.00100	0.000176	1	J	Selenium	0.00815	0.0150	0.00295	1	J
Cadmium	ND	0.00500	0.000350	1		Silver	ND	0.00500	0.000400	1	
Chromium	ND	0.00500	0.000350	1		Thallium	ND	0.0150	0.00233	1	
Cobalt	ND	0.00500	0.000696	1		Vanadium	ND	0.00500	0.000314	1	
Copper	0.00359	0.00500	0.00134	1	J	Zinc	ND	0.0100	0.000848	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

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Tetra Tech, Inc.		Date Received:	09/28/06
3475 East Foothill Blvd., Suite 300		Work Order No:	06-09-1593
Pasadena, CA 91107-6024		Preparation:	EPA 3005A Filt.
		Method:	EPA 6010B
		Units:	mg/L
Project: BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603			Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MW-7	06-09-1593-2	09/28/06	Aqueous	09/29/06	09/30/06	060929L03F

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Calcium	99.1	0.1	0.00932	1		Potassium	5.17	0.50	0.0561	1	
Magnesium	34.3	0.1	0.00328	1	B	Sodium	37.4	0.5	0.0192	1	B

MW-8	06-09-1593-3	09/28/06	Aqueous	09/29/06	09/30/06	060929L03F

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Calcium	103	0.100	0.00932	1		Potassium	5.41	0.50	0.0561	1	
Magnesium	32.5	0.1	0.00328	1	B	Sodium	37.2	0.5	0.0192	1	B

MW-3	06-09-1593-4	09/28/06	Aqueous	09/29/06	09/30/06	060929L03F

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Calcium	111	0.100	0.00932	1		Potassium	5.52	0.50	0.0561	1	
Magnesium	32.6	0.1	0.00328	1	B	Sodium	38.4	0.5	0.0192	1	B

MW-5	06-09-1593-5	09/28/06	Aqueous	09/29/06	09/30/06	060929L03F

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Calcium	111	0.100	0.00932	1		Potassium	5.58	0.50	0.0561	1	
Magnesium	31.7	0.1	0.00328	1	B	Sodium	37.3	0.5	0.0192	1	B

Method Blank	097-01-003-6,506	N/A	Aqueous	09/29/06	09/30/06	060929L03F

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Calcium	ND	0.100	0.00932	1		Potassium	ND	0.500	0.0561	1	
Magnesium	0.00446	0.100	0.00328	1	J	Sodium	0.0432	0.500	0.0192	1	J

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

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Tetra Tech, Inc.		Date Received:	09/28/06
3475 East Foothill Blvd., Suite 300		Work Order No:	06-09-1593
Pasadena, CA 91107-6024		Preparation:	EPA 3005A Filt.
		Method:	EPA 200.8
		Units:	mg/L
Project: BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603			Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MW-7	**06-09-1593-2**	**09/28/06**	**Aqueous**	**10/02/06**	**10/02/06**	**061002L03F**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Iron	0.00422	0.100	0.00214	1	J	Manganese	0.00272	0.00100	0.0000189	1	

MW-8	**06-09-1593-3**	**09/28/06**	**Aqueous**	**10/02/06**	**10/02/06**	**061002L03F**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Iron	ND	0.100	0.00214	1		Manganese	0.00113	0.00100	0.0000189	1	

MW-3	**06-09-1593-4**	**09/28/06**	**Aqueous**	**10/02/06**	**10/02/06**	**061002L03F**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
[illegible]	ND	0.100	0.00214	1		Manganese	0.00194	0.00100	0.0000189	1	

MW-5	**06-09-1593-5**	**09/28/06**	**Aqueous**	**10/02/06**	**10/02/06**	**061002L03F**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Iron	0.00851	0.100	0.00214	1	J	Manganese	0.00197	0.00100	0.0000189	1	

Method Blank	**099-10-008-785**	**N/A**	**Aqueous**	**10/02/06**	**10/02/06**	**061002L03F**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Iron	ND	0.100	0.00214	1		Manganese	ND	0.00100	0.0000189	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

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Tetra Tech, Inc.		Date Received:	09/28/06
3475 East Foothill Blvd., Suite 300		Work Order No:	06-09-1593
Pasadena, CA 91107-6024		Preparation:	EPA 3520B
		Method:	EPA 8270C(M) Isotope Dilution

Project: BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MW-7	**06-09-1593-2**	**09/28/06**	**Aqueous**	**10/02/06**	**10/03/06**	**061002L04D**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
1,4-Dioxane	ND	2.0	0.40	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Nitrobenzene-d5	82	56-123	

MW-8	**06-09-1593-3**	**09/28/06**	**Aqueous**	**10/02/06**	**10/04/06**	**061002L04D**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
1,4-Dioxane	ND	2.0	0.40	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Nitrobenzene-d5	86	56-123	

MW-3	**06-09-1593-4**	**09/28/06**	**Aqueous**	**10/02/06**	**10/04/06**	**061002L04D**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
1,4-Dioxane	ND	2.0	0.40	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Nitrobenzene-d5	83	56-123	

MW-5	**06-09-1593-5**	**09/28/06**	**Aqueous**	**10/02/06**	**10/04/06**	**061002L04D**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
1,4-Dioxane	ND	2.0	0.40	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Nitrobenzene-d5	81	56-123	

Method Blank	**099-09-004-656**	**N/A**	**Aqueous**	**10/02/06**	**10/03/06**	**061002L04D**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
1,4-Dioxane	ND	2.0	0.40	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Nitrobenzene-d5	90	56-123	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.		Date Received:	09/28/06
3475 East Foothill Blvd., Suite 300		Work Order No:	06-09-1593
Pasadena, CA 91107-6024		Preparation:	EPA 3520B
		Method:	EPA 1625CM

Project: BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MW-7	**06-09-1593-2**	**09/28/06**	**Aqueous**	**10/03/06**	**10/05/06**	**061003L02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
N-Nitrosodimethylamine	ND	2.0	0.48	1		ng/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Dichlorobenzene-d4	51	50-130	

MW-8	**06-09-1593-3**	**09/28/06**	**Aqueous**	**10/03/06**	**10/05/06**	**061003L02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
N-Nitrosodimethylamine	ND	2.0	0.48	1		ng/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Dichlorobenzene-d4	53	50-130	

MW-3	**06-09-1593-4**	**09/28/06**	**Aqueous**	**10/03/06**	**10/06/06**	**061003L02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
N-Nitrosodimethylamine	ND	2.0	0.48	1		ng/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Dichlorobenzene-d4	51	50-130	

MW-5	**06-09-1593-5**	**09/28/06**	**Aqueous**	**10/03/06**	**10/05/06**	**061003L02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
N-Nitrosodimethylamine	ND	2.0	0.48	1		ng/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Dichlorobenzene-d4	51	50-130	

Method Blank	**099-07-027-283**	**N/A**	**Aqueous**	**10/03/06**	**10/05/06**	**061003L02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
N-Nitrosodimethylamine	ND	2.0	0.48	1		ng/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Dichlorobenzene-d4	76	50-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.		Date Received:	09/28/06
3475 East Foothill Blvd., Suite 300		Work Order No:	06-09-1593
Pasadena, CA 91107-6024		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603			Page 1 of 6

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
TtTB092806	06-09-1593-1	09/28/06	Aqueous	10/06/06	10/06/06	061006L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	7.0	1		1,3-Dichloropropane	ND	1.0	0.28	1	
Benzene	ND	0.50	0.19	1		2,2-Dichloropropane	ND	1.0	0.29	1	
Bromobenzene	ND	1.0	0.26	1		1,1-Dichloropropene	ND	1.0	0.62	1	
Bromochloromethane	ND	1.0	0.88	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.21	1		t-1,3-Dichloropropene	ND	0.50	0.26	1	
Bromoform	ND	1.0	0.87	1		Ethylbenzene	ND	1.0	0.13	1	
Bromomethane	ND	10	3.5	1		2-Hexanone	ND	10	3.4	1	
2-Butanone	ND	10	8.0	1		Isopropylbenzene	ND	1.0	0.10	1	
n-Butylbenzene	ND	1.0	0.25	1		p-Isopropyltoluene	ND	1.0	0.14	1	
sec-Butylbenzene	ND	1.0	0.29	1		Methylene Chloride	ND	10	9.7	1	
tert-Butylbenzene	ND	1.0	0.19	1		4-Methyl-2-Pentanone	ND	10	2.0	1	
Carbon Disulfide	ND	10	1.8	1		Naphthalene	ND	10	0.42	1	
Carbon Tetrachloride	ND	0.50	0.29	1		n-Propylbenzene	ND	1.0	0.12	1	
Chlorobenzene	ND	1.0	0.16	1		Styrene	ND	1.0	0.16	1	
Chloroethane	ND	1.0	0.70	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloroform	ND	1.0	0.29	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.45	1	
Chloromethane	ND	10	2.1	1		Tetrachloroethene	ND	1.0	0.30	1	
2-Chlorotoluene	ND	1.0	0.16	1		Toluene	ND	1.0	0.23	1	
4-Chlorotoluene	ND	1.0	0.18	1		1,2,3-Trichlorobenzene	ND	1.0	0.26	1	
Dibromochloromethane	ND	1.0	0.39	1		1,2,4-Trichlorobenzene	ND	1.0	0.29	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.35	1	
1,2-Dibromoethane	ND	1.0	0.41	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.61	1	
Dibromomethane	ND	1.0	0.82	1		1,1,2-Trichloroethane	ND	1.0	0.79	1	
1,2-Dichlorobenzene	ND	1.0	0.15	1		Trichloroethene	ND	1.0	0.31	1	
1,3-Dichlorobenzene	ND	1.0	0.15	1		Trichlorofluoromethane	ND	10	0.83	1	
1,4-Dichlorobenzene	ND	1.0	0.17	1		1,2,3-Trichloropropane	ND	5.0	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.33	1		1,2,4-Trimethylbenzene	ND	1.0	0.13	1	
1,1-Dichloroethane	ND	1.0	0.25	1		1,3,5-Trimethylbenzene	ND	1.0	0.86	1	
1,2-Dichloroethane	ND	0.50	0.25	1		Vinyl Acetate	ND	10	6.4	1	
1,1-Dichloroethene	ND	1.0	0.26	1		Vinyl Chloride	ND	0.50	0.24	1	
c-1,2-Dichloroethene	ND	1.0	0.63	1		p/m-Xylene	ND	1.0	0.27	1	
t-1,2-Dichloroethene	ND	1.0	0.83	1		o-Xylene	ND	1.0	0.17	1	
1,2-Dichloropropane	ND	1.0	0.55	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.23	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	101	74-140		1,2-Dichloroethane-d4	104	74-146	
Toluene-d8	100	88-112		1,4-Bromofluorobenzene	98	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.		Date Received:	09/28/06
3475 East Foothill Blvd., Suite 300		Work Order No:	06-09-1593
Pasadena, CA 91107-6024		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603			Page 2 of 6

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MW-8	06-09-1593-3	09/28/06	Aqueous	10/06/06	10/06/06	061006L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	16	50	7.0	1	J	1,3-Dichloropropane	ND	1.0	0.28	1	
Benzene	ND	0.50	0.19	1		2,2-Dichloropropane	ND	1.0	0.29	1	
Bromobenzene	ND	1.0	0.26	1		1,1-Dichloropropene	ND	1.0	0.62	1	
Bromochloromethane	ND	1.0	0.88	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.21	1		t-1,3-Dichloropropene	ND	0.50	0.26	1	
Bromoform	ND	1.0	0.87	1		Ethylbenzene	ND	1.0	0.13	1	
Bromomethane	ND	10	3.5	1		2-Hexanone	ND	10	3.4	1	
2-Butanone	ND	10	8.0	1		Isopropylbenzene	ND	1.0	0.10	1	
n-Butylbenzene	ND	1.0	0.25	1		p-Isopropyltoluene	ND	1.0	0.14	1	
sec-Butylbenzene	ND	1.0	0.29	1		Methylene Chloride	ND	10	9.7	1	
[illegible]Butylbenzene	ND	1.0	0.19	1		4-Methyl-2-Pentanone	ND	10	2.0	1	
[illegible]on Disulfide	ND	10	1.8	1		Naphthalene	ND	10	0.42	1	
Carbon Tetrachloride	0.67	0.50	0.29	1		n-Propylbenzene	ND	1.0	0.12	1	
Chlorobenzene	ND	1.0	0.16	1		Styrene	ND	1.0	0.16	1	
Chloroethane	ND	1.0	0.70	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloroform	1.2	1.0	0.29	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.45	1	
Chloromethane	ND	10	2.1	1		Tetrachloroethene	150	1	0.30	1	
2-Chlorotoluene	ND	1.0	0.16	1		Toluene	ND	1.0	0.23	1	
4-Chlorotoluene	ND	1.0	0.18	1		1,2,3-Trichlorobenzene	ND	1.0	0.26	1	
Dibromochloromethane	ND	1.0	0.39	1		1,2,4-Trichlorobenzene	ND	1.0	0.29	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.35	1	
1,2-Dibromoethane	ND	1.0	0.41	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	1.5	10.0	0.61	1	J
Dibromomethane	ND	1.0	0.82	1		1,1,2-Trichloroethane	ND	1.0	0.79	1	
1,2-Dichlorobenzene	ND	1.0	0.15	1		Trichloroethene	60	1	0.31	1	
1,3-Dichlorobenzene	ND	1.0	0.15	1		Trichlorofluoromethane	ND	10	0.83	1	
1,4-Dichlorobenzene	ND	1.0	0.17	1		1,2,3-Trichloropropane	ND	5.0	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.33	1		1,2,4-Trimethylbenzene	ND	1.0	0.13	1	
1,1-Dichloroethane	ND	1.0	0.25	1		1,3,5-Trimethylbenzene	ND	1.0	0.86	1	
1,2-Dichloroethane	1.1	0.5	0.25	1		Vinyl Acetate	ND	10	6.4	1	
1,1-Dichloroethene	0.94	1.0	0.26	1	J	Vinyl Chloride	ND	0.50	0.24	1	
c-1,2-Dichloroethene	ND	1.0	0.63	1		p/m-Xylene	ND	1.0	0.27	1	
t-1,2-Dichloroethene	ND	1.0	0.83	1		o-Xylene	ND	1.0	0.17	1	
1,2-Dichloropropane	ND	1.0	0.55	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.23	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	103	74-140		1,2-Dichloroethane-d4	107	74-146	
Toluene-d8	103	88-112		1,4-Bromofluorobenzene	100	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.		Date Received:	09/28/06
3475 East Foothill Blvd., Suite 300		Work Order No:	06-09-1593
Pasadena, CA 91107-6024		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603			Page 3 of 6

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MW-3	06-09-1593-4	09/28/06	Aqueous	10/06/06	10/06/06	061006L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	13	50	7.0	1	J	1,3-Dichloropropane	ND	1.0	0.28	1	
Benzene	ND	0.50	0.19	1		2,2-Dichloropropane	ND	1.0	0.29	1	
Bromobenzene	ND	1.0	0.26	1		1,1-Dichloropropene	ND	1.0	0.62	1	
Bromochloromethane	ND	1.0	0.88	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.21	1		t-1,3-Dichloropropene	ND	0.50	0.26	1	
Bromoform	ND	1.0	0.87	1		Ethylbenzene	ND	1.0	0.13	1	
Bromomethane	ND	10	3.5	1		2-Hexanone	ND	10	3.4	1	
2-Butanone	ND	10	8.0	1		Isopropylbenzene	ND	1.0	0.10	1	
n-Butylbenzene	ND	1.0	0.25	1		p-Isopropyltoluene	ND	1.0	0.14	1	
sec-Butylbenzene	ND	1.0	0.29	1		Methylene Chloride	ND	10	9.7	1	
tert-Butylbenzene	ND	1.0	0.19	1		4-Methyl-2-Pentanone	ND	10	2.0	1	
Carbon Disulfide	ND	10	1.8	1		Naphthalene	ND	10	0.42	1	
Carbon Tetrachloride	1.2	0.5	0.29	1		n-Propylbenzene	ND	1.0	0.12	1	
Chlorobenzene	ND	1.0	0.16	1		Styrene	ND	1.0	0.16	1	
Chloroethane	ND	1.0	0.70	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloroform	1.7	1.0	0.29	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.45	1	
Chloromethane	ND	10	2.1	1		Tetrachloroethene	71	1	0.30	1	
2-Chlorotoluene	ND	1.0	0.16	1		Toluene	ND	1.0	0.23	1	
4-Chlorotoluene	ND	1.0	0.18	1		1,2,3-Trichlorobenzene	ND	1.0	0.26	1	
Dibromochloromethane	ND	1.0	0.39	1		1,2,4-Trichlorobenzene	ND	1.0	0.29	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	0.76	1.0	0.35	1	J
1,2-Dibromoethane	ND	1.0	0.41	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	2.2	10.0	0.61	1	J
Dibromomethane	ND	1.0	0.82	1		1,1,2-Trichloroethane	ND	1.0	0.79	1	
1,2-Dichlorobenzene	ND	1.0	0.15	1		Trichloroethene	24	1	0.31	1	
1,3-Dichlorobenzene	ND	1.0	0.15	1		Trichlorofluoromethane	ND	10	0.83	1	
1,4-Dichlorobenzene	ND	1.0	0.17	1		1,2,3-Trichloropropane	ND	5.0	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.33	1		1,2,4-Trimethylbenzene	ND	1.0	0.13	1	
1,1-Dichloroethane	ND	1.0	0.25	1		1,3,5-Trimethylbenzene	ND	1.0	0.86	1	
1,2-Dichloroethane	0.70	0.50	0.25	1		Vinyl Acetate	ND	10	6.4	1	
1,1-Dichloroethene	4.0	1.0	0.26	1		Vinyl Chloride	ND	0.50	0.24	1	
c-1,2-Dichloroethene	ND	1.0	0.63	1		p/m-Xylene	ND	1.0	0.27	1	
t-1,2-Dichloroethene	ND	1.0	0.83	1		o-Xylene	ND	1.0	0.17	1	
1,2-Dichloropropane	ND	1.0	0.55	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.23	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	108	74-140		1,2-Dichloroethane-d4	112	74-146	
Toluene-d8	98	88-112		1,4-Bromofluorobenzene	97	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.		Date Received:	09/28/06
3475 East Foothill Blvd., Suite 300		Work Order No:	06-09-1593
Pasadena, CA 91107-6024		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603			Page 4 of 6

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MW-5	06-09-1593-5	09/28/06	Aqueous	10/06/06	10/06/06	061006L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	11	50	7.0	1	J	1,3-Dichloropropane	ND	1.0	0.28	1	
Benzene	ND	0.50	0.19	1		2,2-Dichloropropane	ND	1.0	0.29	1	
Bromobenzene	ND	1.0	0.26	1		1,1-Dichloropropene	ND	1.0	0.62	1	
Bromochloromethane	ND	1.0	0.88	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	0.41	1.0	0.21	1	J	t-1,3-Dichloropropene	ND	0.50	0.26	1	
Bromoform	ND	1.0	0.87	1		Ethylbenzene	ND	1.0	0.13	1	
Bromomethane	ND	10	3.5	1		2-Hexanone	ND	10	3.4	1	
2-Butanone	ND	10	8.0	1		Isopropylbenzene	ND	1.0	0.10	1	
n-Butylbenzene	ND	1.0	0.25	1		p-Isopropyltoluene	ND	1.0	0.14	1	
sec-Butylbenzene	ND	1.0	0.29	1		Methylene Chloride	ND	10	9.7	1	
[illegible]Butylbenzene	ND	1.0	0.19	1		4-Methyl-2-Pentanone	ND	10	2.0	1	
[illegible]on Disulfide	ND	10	1.8	1		Naphthalene	ND	10	0.42	1	
Carbon Tetrachloride	2.0	0.5	0.29	1		n-Propylbenzene	ND	1.0	0.12	1	
Chlorobenzene	ND	1.0	0.16	1		Styrene	ND	1.0	0.16	1	
Chloroethane	ND	1.0	0.70	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloroform	2.2	1.0	0.29	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.45	1	
Chloromethane	ND	10	2.1	1		Tetrachloroethene	120	1	0.30	1	
2-Chlorotoluene	ND	1.0	0.16	1		Toluene	ND	1.0	0.23	1	
4-Chlorotoluene	ND	1.0	0.18	1		1,2,3-Trichlorobenzene	ND	1.0	0.26	1	
Dibromochloromethane	ND	1.0	0.39	1		1,2,4-Trichlorobenzene	ND	1.0	0.29	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.35	1	
1,2-Dibromoethane	ND	1.0	0.41	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	1.4	10.0	0.61	1	J
Dibromomethane	ND	1.0	0.82	1		1,1,2-Trichloroethane	ND	1.0	0.79	1	
1,2-Dichlorobenzene	ND	1.0	0.15	1		Trichloroethene	66	1	0.31	1	
1,3-Dichlorobenzene	ND	1.0	0.15	1		Trichlorofluoromethane	ND	10	0.83	1	
1,4-Dichlorobenzene	ND	1.0	0.17	1		1,2,3-Trichloropropane	ND	5.0	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.33	1		1,2,4-Trimethylbenzene	ND	1.0	0.13	1	
1,1-Dichloroethane	ND	1.0	0.25	1		1,3,5-Trimethylbenzene	ND	1.0	0.86	1	
1,2-Dichloroethane	ND	0.50	0.25	1		Vinyl Acetate	ND	10	6.4	1	
1,1-Dichloroethene	2.5	1.0	0.26	1		Vinyl Chloride	ND	0.50	0.24	1	
c-1,2-Dichloroethene	ND	1.0	0.63	1		p/m-Xylene	ND	1.0	0.27	1	
t-1,2-Dichloroethene	ND	1.0	0.83	1		o-Xylene	ND	1.0	0.17	1	
1,2-Dichloropropane	ND	1.0	0.55	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.23	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	105	74-140		1,2-Dichloroethane-d4	109	74-146	
Toluene-d8	100	88-112		1,4-Bromofluorobenzene	99	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.		Date Received:	09/28/06
3475 East Foothill Blvd., Suite 300		Work Order No:	06-09-1593
Pasadena, CA 91107-6024		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603			Page 5 of 6

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
TtFB092806	06-09-1593-6	09/28/06	Aqueous	10/06/06	10/06/06	061006L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	8.8	50.0	7.0	1	J	1,3-Dichloropropane	ND	1.0	0.28	1	
Benzene	ND	0.50	0.19	1		2,2-Dichloropropane	ND	1.0	0.29	1	
Bromobenzene	ND	1.0	0.26	1		1,1-Dichloropropene	ND	1.0	0.62	1	
Bromochloromethane	ND	1.0	0.88	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.21	1		t-1,3-Dichloropropene	ND	0.50	0.26	1	
Bromoform	ND	1.0	0.87	1		Ethylbenzene	0.46	1.0	0.13	1	J
Bromomethane	ND	10	3.5	1		2-Hexanone	ND	10	3.4	1	
2-Butanone	ND	10	8.0	1		Isopropylbenzene	ND	1.0	0.10	1	
n-Butylbenzene	ND	1.0	0.25	1		p-Isopropyltoluene	ND	1.0	0.14	1	
sec-Butylbenzene	ND	1.0	0.29	1		Methylene Chloride	ND	10	9.7	1	
tert-Butylbenzene	ND	1.0	0.19	1		4-Methyl-2-Pentanone	ND	10	2.0	1	
Carbon Disulfide	ND	10	1.8	1		Naphthalene	ND	10	0.42	1	
Carbon Tetrachloride	ND	0.50	0.29	1		n-Propylbenzene	ND	1.0	0.12	1	
Chlorobenzene	ND	1.0	0.16	1		Styrene	ND	1.0	0.16	1	
Chloroethane	ND	1.0	0.70	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloroform	ND	1.0	0.29	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.45	1	
Chloromethane	ND	10	2.1	1		Tetrachloroethene	ND	1.0	0.30	1	
2-Chlorotoluene	ND	1.0	0.16	1		Toluene	0.40	1.0	0.23	1	J
4-Chlorotoluene	ND	1.0	0.18	1		1,2,3-Trichlorobenzene	ND	1.0	0.26	1	
Dibromochloromethane	ND	1.0	0.39	1		1,2,4-Trichlorobenzene	ND	1.0	0.29	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.35	1	
1,2-Dibromoethane	ND	1.0	0.41	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.61	1	
Dibromomethane	ND	1.0	0.82	1		1,1,2-Trichloroethane	ND	1.0	0.79	1	
1,2-Dichlorobenzene	ND	1.0	0.15	1		Trichloroethene	ND	1.0	0.31	1	
1,3-Dichlorobenzene	ND	1.0	0.15	1		Trichlorofluoromethane	ND	10	0.83	1	
1,4-Dichlorobenzene	ND	1.0	0.17	1		1,2,3-Trichloropropane	ND	5.0	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.33	1		1,2,4-Trimethylbenzene	ND	1.0	0.13	1	
1,1-Dichloroethane	ND	1.0	0.25	1		1,3,5-Trimethylbenzene	ND	1.0	0.86	1	
1,2-Dichloroethane	ND	0.50	0.25	1		Vinyl Acetate	ND	10	6.4	1	
1,1-Dichloroethene	ND	1.0	0.26	1		Vinyl Chloride	ND	0.50	0.24	1	
c-1,2-Dichloroethene	ND	1.0	0.63	1		p/m-Xylene	1.4	1.0	0.27	1	
t-1,2-Dichloroethene	ND	1.0	0.83	1		o-Xylene	0.94	1.0	0.17	1	J
1,2-Dichloropropane	ND	1.0	0.55	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.23	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	102	74-140		1,2-Dichloroethane-d4	103	74-146	
Toluene-d8	102	88-112		1,4-Bromofluorobenzene	99	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.		Date Received:	09/28/06
3475 East Foothill Blvd., Suite 300		Work Order No:	06-09-1593
Pasadena, CA 91107-6024		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603			Page 6 of 6

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-10-006-19,295**	**N/A**	**Aqueous**	**10/06/06**	**10/06/06**	**061006L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	7.0	1		1,3-Dichloropropane	ND	1.0	0.28	1	
Benzene	ND	0.50	0.19	1		2,2-Dichloropropane	ND	1.0	0.29	1	
Bromobenzene	ND	1.0	0.26	1		1,1-Dichloropropene	ND	1.0	0.62	1	
Bromochloromethane	ND	1.0	0.88	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.21	1		t-1,3-Dichloropropene	ND	0.50	0.26	1	
Bromoform	ND	1.0	0.87	1		Ethylbenzene	ND	1.0	0.13	1	
Bromomethane	ND	10	3.5	1		2-Hexanone	ND	10	3.4	1	
2-Butanone	ND	10	8.0	1		Isopropylbenzene	ND	1.0	0.10	1	
n-Butylbenzene	ND	1.0	0.25	1		p-Isopropyltoluene	ND	1.0	0.14	1	
sec-Butylbenzene	ND	1.0	0.29	1		Methylene Chloride	ND	10	9.7	1	
[illegible]Butylbenzene	ND	1.0	0.19	1		4-Methyl-2-Pentanone	ND	10	2.0	1	
[illegible]on Disulfide	ND	10	1.8	1		Naphthalene	ND	10	0.42	1	
Carbon Tetrachloride	ND	0.50	0.29	1		n-Propylbenzene	ND	1.0	0.12	1	
Chlorobenzene	ND	1.0	0.16	1		Styrene	ND	1.0	0.16	1	
Chloroethane	ND	1.0	0.70	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloroform	ND	1.0	0.29	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.45	1	
Chloromethane	ND	10	2.1	1		Tetrachloroethene	ND	1.0	0.30	1	
2-Chlorotoluene	ND	1.0	0.16	1		Toluene	ND	1.0	0.23	1	
4-Chlorotoluene	ND	1.0	0.18	1		1,2,3-Trichlorobenzene	ND	1.0	0.26	1	
Dibromochloromethane	ND	1.0	0.39	1		1,2,4-Trichlorobenzene	ND	1.0	0.29	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.35	1	
1,2-Dibromoethane	ND	1.0	0.41	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.61	1	
Dibromomethane	ND	1.0	0.82	1		1,1,2-Trichloroethane	ND	1.0	0.79	1	
1,2-Dichlorobenzene	ND	1.0	0.15	1		Trichloroethene	ND	1.0	0.31	1	
1,3-Dichlorobenzene	ND	1.0	0.15	1		Trichlorofluoromethane	ND	10	0.83	1	
1,4-Dichlorobenzene	ND	1.0	0.17	1		1,2,3-Trichloropropane	ND	5.0	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.33	1		1,2,4-Trimethylbenzene	ND	1.0	0.13	1	
1,1-Dichloroethane	ND	1.0	0.25	1		1,3,5-Trimethylbenzene	ND	1.0	0.86	1	
1,2-Dichloroethane	ND	0.50	0.25	1		Vinyl Acetate	ND	10	6.4	1	
1,1-Dichloroethene	ND	1.0	0.26	1		Vinyl Chloride	ND	0.50	0.24	1	
c-1,2-Dichloroethene	ND	1.0	0.63	1		p/m-Xylene	ND	1.0	0.27	1	
t-1,2-Dichloroethene	ND	1.0	0.83	1		o-Xylene	ND	1.0	0.17	1	
1,2-Dichloropropane	ND	1.0	0.55	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.23	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	102	74-140		1,2-Dichloroethane-d4	104	74-146	
Toluene-d8	104	88-112		1,4-Bromofluorobenzene	101	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

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Tetra Tech, Inc.		Date Received:	09/28/06
3475 East Foothill Blvd., Suite 300		Work Order No:	06-09-1593
Pasadena, CA 91107-6024		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603			Page 1 of 2

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MW-7	06-09-1593-2	09/28/06	Aqueous	10/06/06	10/06/06	061006L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	9.2	50.0	7.0	1	J	1,3-Dichloropropane	ND	1.0	0.28	1	
Benzene	ND	0.50	0.19	1		2,2-Dichloropropane	ND	1.0	0.29	1	
Bromobenzene	ND	1.0	0.26	1		1,1-Dichloropropene	ND	1.0	0.62	1	
Bromochloromethane	ND	1.0	0.88	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.21	1		t-1,3-Dichloropropene	ND	0.50	0.26	1	
Bromoform	ND	1.0	0.87	1		Ethylbenzene	ND	1.0	0.13	1	
Bromomethane	ND	10	3.5	1		2-Hexanone	ND	10	3.4	1	
2-Butanone	ND	10	8.0	1		Isopropylbenzene	ND	1.0	0.10	1	
n-Butylbenzene	ND	1.0	0.25	1		p-Isopropyltoluene	ND	1.0	0.14	1	
sec-Butylbenzene	ND	1.0	0.29	1		Methylene Chloride	ND	10	9.7	1	
tert-Butylbenzene	ND	1.0	0.19	1		4-Methyl-2-Pentanone	ND	10	2.0	1	
Carbon Disulfide	ND	10	1.8	1		Naphthalene	0.74	10.00	0.42	1	
Carbon Tetrachloride	ND	0.50	0.29	1		n-Propylbenzene	ND	1.0	0.12	1	
Chlorobenzene	ND	1.0	0.16	1		Styrene	ND	1.0	0.16	1	
Chloroethane	ND	1.0	0.70	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloroform	0.65	1.0	0.29	1	J	1,1,2,2-Tetrachloroethane	ND	1.0	0.45	1	
Chloromethane	ND	10	2.1	1		Tetrachloroethene	30	1	0.30	1	
2-Chlorotoluene	ND	1.0	0.16	1		Toluene	ND	1.0	0.23	1	
4-Chlorotoluene	ND	1.0	0.18	1		1,2,3-Trichlorobenzene	ND	1.0	0.26	1	
Dibromochloromethane	ND	1.0	0.39	1		1,2,4-Trichlorobenzene	ND	1.0	0.29	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.35	1	
1,2-Dibromoethane	ND	1.0	0.41	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.61	1	
Dibromomethane	ND	1.0	0.82	1		1,1,2-Trichloroethane	ND	1.0	0.79	1	
1,2-Dichlorobenzene	ND	1.0	0.15	1		Trichloroethene	8.9	1.0	0.31	1	
1,3-Dichlorobenzene	ND	1.0	0.15	1		Trichlorofluoromethane	ND	10	0.83	1	
1,4-Dichlorobenzene	ND	1.0	0.17	1		1,2,3-Trichloropropane	ND	5.0	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.33	1		1,2,4-Trimethylbenzene	ND	1.0	0.13	1	
1,1-Dichloroethane	ND	1.0	0.25	1		1,3,5-Trimethylbenzene	ND	1.0	0.86	1	
1,2-Dichloroethane	ND	0.50	0.25	1		Vinyl Acetate	ND	10	6.4	1	
1,1-Dichloroethene	0.35	1.0	0.26	1	J	Vinyl Chloride	ND	0.50	0.24	1	
c-1,2-Dichloroethene	ND	1.0	0.63	1		p/m-Xylene	ND	1.0	0.27	1	
t-1,2-Dichloroethene	ND	1.0	0.83	1		o-Xylene	ND	1.0	0.17	1	
1,2-Dichloropropane	ND	1.0	0.55	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.23	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	101	74-140		1,2-Dichloroethane-d4	107	74-146	
Toluene-d8	102	88-112		1,4-Bromofluorobenzene	99	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.		Date Received:	09/28/06
3475 East Foothill Blvd., Suite 300		Work Order No:	06-09-1593
Pasadena, CA 91107-6024		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603			Page 2 of 2

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-10-006-19,295**	**N/A**	**Aqueous**	**10/06/06**	**10/06/06**	**061006L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	7.0	1		1,3-Dichloropropane	ND	1.0	0.28	1	
Benzene	ND	0.50	0.19	1		2,2-Dichloropropane	ND	1.0	0.29	1	
Bromobenzene	ND	1.0	0.26	1		1,1-Dichloropropene	ND	1.0	0.62	1	
Bromochloromethane	ND	1.0	0.88	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.21	1		t-1,3-Dichloropropene	ND	0.50	0.26	1	
Bromoform	ND	1.0	0.87	1		Ethylbenzene	ND	1.0	0.13	1	
Bromomethane	ND	10	3.5	1		2-Hexanone	ND	10	3.4	1	
2-Butanone	ND	10	8.0	1		Isopropylbenzene	ND	1.0	0.10	1	
n-Butylbenzene	ND	1.0	0.25	1		p-Isopropyltoluene	ND	1.0	0.14	1	
sec-Butylbenzene	ND	1.0	0.29	1		Methylene Chloride	ND	10	9.7	1	
[illegible]Butylbenzene	ND	1.0	0.19	1		4-Methyl-2-Pentanone	ND	10	2.0	1	
[illegible]on Disulfide	ND	10	1.8	1		Naphthalene	ND	10	0.42	1	
Carbon Tetrachloride	ND	0.50	0.29	1		n-Propylbenzene	ND	1.0	0.12	1	
Chlorobenzene	ND	1.0	0.16	1		Styrene	ND	1.0	0.16	1	
Chloroethane	ND	1.0	0.70	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloroform	ND	1.0	0.29	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.45	1	
Chloromethane	ND	10	2.1	1		Tetrachloroethene	ND	1.0	0.30	1	
2-Chlorotoluene	ND	1.0	0.16	1		Toluene	ND	1.0	0.23	1	
4-Chlorotoluene	ND	1.0	0.18	1		1,2,3-Trichlorobenzene	ND	1.0	0.26	1	
Dibromochloromethane	ND	1.0	0.39	1		1,2,4-Trichlorobenzene	ND	1.0	0.29	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.35	1	
1,2-Dibromoethane	ND	1.0	0.41	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.61	1	
Dibromomethane	ND	1.0	0.82	1		1,1,2-Trichloroethane	ND	1.0	0.79	1	
1,2-Dichlorobenzene	ND	1.0	0.15	1		Trichloroethene	ND	1.0	0.31	1	
1,3-Dichlorobenzene	ND	1.0	0.15	1		Trichlorofluoromethane	ND	10	0.83	1	
1,4-Dichlorobenzene	ND	1.0	0.17	1		1,2,3-Trichloropropane	ND	5.0	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.33	1		1,2,4-Trimethylbenzene	ND	1.0	0.13	1	
1,1-Dichloroethane	ND	1.0	0.25	1		1,3,5-Trimethylbenzene	ND	1.0	0.86	1	
1,2-Dichloroethane	ND	0.50	0.25	1		Vinyl Acetate	ND	10	6.4	1	
1,1-Dichloroethene	ND	1.0	0.26	1		Vinyl Chloride	ND	0.50	0.24	1	
c-1,2-Dichloroethene	ND	1.0	0.63	1		p/m-Xylene	ND	1.0	0.27	1	
t-1,2-Dichloroethene	ND	1.0	0.83	1		o-Xylene	ND	1.0	0.17	1	
1,2-Dichloropropane	ND	1.0	0.55	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.23	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	102	74-140		1,2-Dichloroethane-d4	104	74-146	
Toluene-d8	104	88-112		1,4-Bromofluorobenzene	101	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

EPA 8260B Tentatively Identified Compound List

Work Order	CEL Sample	Client ID	Q	Compound	CAS NUMBER	RT	On Column Conc. ug/L	Estimated Conc. ug/L
06-09-1593				No TICs found for all samples				

Q Qualifier
RT Retention Time

7440 Lincoln Way, Garden Grove, CA 92841-[illegible]2 • TEL: (714) 895-5494 • FAX: (714) 894-7501

Calscience Environmental Laboratories, Inc.

Analytical Report

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Tetra Tech, Inc.		Date Received:	09/28/06
3475 East Foothill Blvd., Suite 300		Work Order No:	06-09-1593
Pasadena, CA 91107-6024		Preparation:	EPA 5030B
		Method:	SRL 524M-TCP

Project: BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MW-7	06-09-1593-2	09/28/06	Aqueous	10/02/06	10/02/06	061002L01

Parameter	Result	RL	MDL	DF	Qual	Units
1,2,3-Trichloropropane	0.011	0.005	0.0017	1		ug/L

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MW-8	06-09-1593-3	09/28/06	Aqueous	10/02/06	10/02/06	061002L01

Parameter	Result	RL	MDL	DF	Qual	Units
1,2,3-Trichloropropane	0.092	0.005	0.0017	1		ug/L

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MW-3	06-09-1593-4	09/28/06	Aqueous	10/02/06	10/02/06	061002L01

Parameter	Result	RL	MDL	DF	Qual	Units
1,2,3-Trichloropropane	0.081	0.005	0.0017	1		ug/L

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MW-5	06-09-1593-5	09/28/06	Aqueous	10/02/06	10/02/06	061002L01

Parameter	Result	RL	MDL	DF	Qual	Units
1,2,3-Trichloropropane	0.16	0.01	0.0033	2		ug/L

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	099-10-022-274	N/A	Aqueous	10/02/06	10/02/06	061002L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
1,2,3-Trichloropropane	ND	0.0050	0.0017	1		ug/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Analytical Report

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Tetra Tech, Inc.
3475 East Foothill Blvd., Suite 300
Pasadena, CA 91107-6024

Date Received: 09/28/06
Work Order No: 06-09-1593

Project: BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603

Client Sample Number	Lab Sample Number	Date Collected	Matrix
MW-7	06-09-1593-2	09/28/06	Aqueous

Comment(s): (1) Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chromium, Hexavalent	1.4	0.2	0.0050	1	B	ug/L	N/A	09/28/06	EPA 218.6
Chloride	43	5	0.27	5		mg/L	N/A	09/29/06	EPA 300.0
Nitrite (as N) (1)	ND	0.10	0.015	1		mg/L	N/A	09/29/06	EPA 300.0
Nitrate (as N)	11	0.50	0.14	5		mg/L	N/A	09/29/06	EPA 300.0
Sulfate	79	10	0.69	10		mg/L	N/A	09/29/06	EPA 300.0
Perchlorate (1)	ND	2.0	0.43	1		ug/L	N/A	09/29/06	EPA 314.0
Sulfide, Total (1)	ND	0.050	0.042	1		mg/L	N/A	09/29/06	EPA 376.2
Dissolved Oxygen	7.13	0.01	0.0100	1		mg/L	N/A	09/28/06	SM 4500-O G

MW-8	06-09-1593-3	09/28/06	Aqueous

Comment(s): (1) Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chromium, Hexavalent	1.5	0.2	0.0050	1	B	ug/L	N/A	09/28/06	EPA 218.6
Chloride	40	5	0.27	5		mg/L	N/A	09/29/06	EPA 300.0
Nitrite (as N) (1)	ND	0.10	0.015	1		mg/L	N/A	09/29/06	EPA 300.0
Nitrate (as N)	11	0.50	0.14	5		mg/L	N/A	09/29/06	EPA 300.0
Sulfate	72	10	0.69	10		mg/L	N/A	09/29/06	EPA 300.0
Perchlorate (1)	ND	2.0	0.43	1		ug/L	N/A	09/29/06	EPA 314.0
Sulfide, Total (1)	ND	0.050	0.042	1		mg/L	N/A	09/29/06	EPA 376.2
Dissolved Oxygen	6.51	0.01	0.0100	1		mg/L	N/A	09/28/06	SM 4500-O G

MW-3	06-09-1593-4	09/28/06	Aqueous

Comment(s): (1) Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chromium, Hexavalent	1.6	0.2	0.0050	1	B	ug/L	N/A	09/28/06	EPA 218.6
Chloride	40	5	0.27	5		mg/L	N/A	09/29/06	EPA 300.0
Nitrite (as N) (1)	ND	0.10	0.015	1		mg/L	N/A	09/29/06	EPA 300.0
Nitrate (as N)	12	0.50	0.14	5		mg/L	N/A	09/29/06	EPA 300.0
Sulfate	72	10	0.69	10		mg/L	N/A	09/29/06	EPA 300.0
Perchlorate (1)	ND	2.0	0.43	1		ug/L	N/A	09/29/06	EPA 314.0
Sulfide, Total (1)	ND	0.050	0.042	1		mg/L	N/A	09/29/06	EPA 376.2
Dissolved Oxygen	6.82	0.01	0.0100	1		mg/L	N/A	09/28/06	SM 4500-O G

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.
3475 East Foothill Blvd., Suite 300
Pasadena, CA 91107-6024

Date Received: 09/28/06
Work Order No: 06-09-1593

Project: BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603

Client Sample Number	Lab Sample Number	Date Collected	Matrix
MW-5	06-09-1593-5	09/28/06	Aqueous

Comment(s): (1) Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chromium, Hexavalent	1.9	0.2	0.0050	1	B	ug/L	N/A	09/28/06	EPA 218.6
Chloride	37	5	0.27	5		mg/L	N/A	09/29/06	EPA 300.0
Nitrite (as N) (1)	ND	0.10	0.015	1		mg/L	N/A	09/29/06	EPA 300.0
Nitrate (as N)	12	0.50	0.14	5		mg/L	N/A	09/29/06	EPA 300.0
Sulfate	76	10	0.69	10		mg/L	N/A	09/29/06	EPA 300.0
Perchlorate (1)	ND	2.0	0.43	1		ug/L	N/A	09/29/06	EPA 314.0
Sulfide, Total (1)	ND	0.050	0.042	1		mg/L	N/A	09/29/06	EPA 376.2
Dissolved Oxygen	6.81	0.01	0.0100	1		mg/L	N/A	09/28/06	SM 4500-O G

Method Blank		N/A	Aqueous

Comment(s): (1) Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chromium, Hexavalent (1)	0.089	0.20	0.0050	1	J	ug/L	N/A	09/28/06	EPA 218.6
Chloride (1)	ND	1.0	0.055	1		mg/L	N/A	09/28/06	EPA 300.0
Nitrite (as N) (1)	ND	0.10	0.015	1		mg/L	N/A	09/28/06	EPA 300.0
Nitrate (as N) (1)	ND	0.10	0.028	1		mg/L	N/A	09/28/06	EPA 300.0
Sulfate (1)	ND	1.0	0.069	1		mg/L	N/A	09/28/06	EPA 300.0
Perchlorate (1)	ND	2.0	0.43	1		ug/L	N/A	09/29/06	EPA 314.0
Sulfide, Total (1)	ND	0.050	0.042	1		mg/L	N/A	09/29/06	EPA 376.2

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.		Date Received:	09/28/06
3475 East Foothill Blvd., Suite 300		Work Order No:	06-09-1593
Pasadena, CA 91107-6024		Preparation:	EPA 3005A Filt.
		Method:	EPA 6010B

Project BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-8	Aqueous	ICP 3300	09/29/06	09/30/06	060929S03

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	113	112	72-132	1	0-10	
Arsenic	106	106	80-140	0	0-11	
Barium	106	106	87-123	0	0-6	
Beryllium	103	104	89-119	1	0-8	
Cadmium	104	105	82-124	1	0-7	
Chromium	104	105	86-122	0	0-8	
Cobalt	102	100	83-125	2	0-7	
Copper	88	89	78-126	1	0-7	
Lead	103	103	84-120	1	0-7	
Molybdenum	104	104	78-126	0	0-7	
Nickel	100	97	84-120	2	0-7	
Selenium	103	104	79-127	2	0-9	
Silver	103	104	86-128	1	0-7	
Thallium	94	94	79-121	0	0-8	
Vanadium	104	104	88-118	0	0-7	
Zinc	99	101	89-131	2	0-8	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH elac

Tetra Tech, Inc.		Date Received:	09/28/06
3475 East Foothill Blvd., Suite 300		Work Order No:	06-09-1593
Pasadena, CA 91107-6024		Preparation:	EPA 3005A Filt.
		Method:	EPA 200.8

Project BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-7	Aqueous	ICP/MS A	10/02/06	10/02/06	061002S03C

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Iron	113	125	80-120	9	0-20	3
Manganese	104	107	80-120	2	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.		Date Received:	09/28/06
3475 East Foothill Blvd., Suite 300		Work Order No:	06-09-1593
Pasadena, CA 91107-6024		Preparation:	EPA 7470A Filt.
		Method:	EPA 7470A

Project BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-3	Aqueous	Mercury	09/29/06	09/29/06	060929S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	106	106	71-134	0	0-14	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.		Date Received:	09/28/06
3475 East Foothill Blvd., Suite 300		Work Order No:	06-09-1593
Pasadena, CA 91107-6024		Preparation:	EPA 3520B
		Method:	EPA 8270C(M) Isotope Dilution

Project BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
06-09-1679-2	Aqueous	GC/MS P	10/02/06	10/04/06	061002S04A

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
1,4-Dioxane	100	101	50-130	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.		Date Received:	09/28/06
3475 East Foothill Blvd., Suite 300		Work Order No:	06-09-1593
Pasadena, CA 91107-6024		Preparation:	EPA 3520B
		Method:	EPA 1625CM

Project BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
06-09-1679-2	Aqueous	GC/MS H	10/03/06	10/05/06	061003S02A

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
N-Nitrosodimethylamine	66	59	50-130	11	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.		Date Received:	09/28/06
3475 East Foothill Blvd., Suite 300		Work Order No:	06-09-1593
Pasadena, CA 91107-6024		Preparation:	EPA 5030B
		Method:	EPA 8260B

Project BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-7	Aqueous	GC/MS U	10/02/06	10/03/06	061002S02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	101	100	88-118	1	0-7	
Carbon Tetrachloride	109	109	67-145	0	0-11	
Chlorobenzene	102	100	88-118	2	0-7	
1,2-Dichlorobenzene	102	103	86-116	0	0-8	
1,1-Dichloroethene	103	101	70-130	1	0-25	
Toluene	102	102	87-123	0	0-8	
Trichloroethene	101	103	79-127	2	0-10	
Vinyl Chloride	92	93	69-129	1	0-13	
Methyl-t-Butyl Ether (MTBE)	97	97	71-131	1	0-13	
Tert-Butyl Alcohol (TBA)	80	83	36-168	3	0-45	
Diisopropyl Ether (DIPE)	102	102	81-123	0	0-9	
Ethyl-t-Butyl Ether (ETBE)	99	99	72-126	0	0-12	
Tert-Amyl-Methyl Ether (TAME)	97	98	72-126	1	0-12	
Ethanol	87	90	53-149	3	0-31	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.		Date Received:	09/28/06
3475 East Foothill Blvd., Suite 300		Work Order No:	06-09-1593
Pasadena, CA 91107-6024		Preparation:	EPA 5030B
		Method:	EPA 8260B

Project BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-8	Aqueous	GC/MS U	10/06/06	10/06/06	061006S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	109	107	88-118	2	0-7	
Carbon Tetrachloride	113	112	67-145	1	0-11	
Chlorobenzene	111	108	88-118	2	0-7	
1,2-Dichlorobenzene	111	109	86-116	2	0-8	
1,1-Dichloroethene	106	103	70-130	3	0-25	
Toluene	112	108	87-123	3	0-8	
Trichloroethene	110	103	79-127	3	0-10	
Vinyl Chloride	108	108	69-129	0	0-13	
Methyl-t-Butyl Ether (MTBE)	105	102	71-131	3	0-13	
Tert-Butyl Alcohol (TBA)	91	90	36-168	1	0-45	
Diisopropyl Ether (DIPE)	110	106	81-123	4	0-9	
Ethyl-t-Butyl Ether (ETBE)	105	102	72-126	3	0-12	
Tert-Amyl-Methyl Ether (TAME)	109	107	72-126	2	0-12	
Ethanol	99	95	53-149	5	0-31	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.		Date Received:	09/28/06
3475 East Foothill Blvd., Suite 300		Work Order No:	06-09-1593
Pasadena, CA 91107-6024		Preparation:	EPA 5030B
		Method:	SRL 524M-TCP

Project BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
06-09-1422-1	Aqueous	GC/MS M	10/02/06	10/02/06	061002S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
1,2,3-Trichloropropane	94	96	80-120	2	0-20	
1,4-Dioxane	110	119	80-120	3	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.
3475 East Foothill Blvd., Suite 300
Pasadena, CA 91107-6024

Date Received: N/A
Work Order No: 06-09-1593

Project: BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603

Matrix: Aqueous

Parameter	Method	Quality Control Sample ID	Date Analyzed	Date Extracted	MS% REC	MSD % REC	%REC CL	RPD	RPD CL	Qualifiers
Chloride	EPA 300.0	MW-7	09/29/06	N/A	77	77	56-134	1	0-3	
Nitrite (as N)	EPA 300.0	MW-7	09/29/06	N/A	85	91	68-122	7	0-8	
Nitrate (as N)	EPA 300.0	MW-7	09/29/06	N/A	79	81	58-142	2	0-6	
Sulfate	EPA 300.0	MW-7	09/29/06	N/A	78	80	49-133	2	0-3	
Chromium, Hexavalent	EPA 218.6	MW-5	09/28/06	N/A	97	97	85-121	0	0-4	
Perchlorate	EPA 314.0	06-09-1498-2	09/29/06	N/A	92	91	80-120	1	0-15	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.
3475 East Foothill Blvd., Suite 300
Pasadena, CA 91107-6024

Date Received: N/A
Work Order No: 06-09-1593

Project: BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603

Matrix: Aqueous

Parameter	Method	QC Sample ID	Date Analyzed	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
Dissolved Oxygen	SM 4500-O G	06-09-1533-7	09/28/06	2.65	2.60	2	0-25	
Sulfide, Total	EPA 376.2	MW-3	09/29/06	ND	ND	NA	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.		Date Received:	N/A
3475 East Foothill Blvd., Suite 300		Work Order No:	06-09-1593
Pasadena, CA 91107-6024		Preparation:	EPA 3005A Filt.
		Method:	EPA 6010B

Project: BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-003-6,506	Aqueous	ICP 3300	09/29/06	09/30/06	060929L03F

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	108	106	80-120	2	0-20	
Arsenic	100	99	80-120	1	0-20	
Barium	107	107	80-120	0	0-20	
Beryllium	100	98	80-120	2	0-20	
Cadmium	107	106	80-120	1	0-20	
Chromium	104	103	80-120	1	0-20	
Cobalt	107	106	80-120	1	0-20	
Copper	98	97	80-120	1	0-20	
Lead	105	103	80-120	2	0-20	
Molybdenum	103	101	80-120	2	0-20	
Nickel	107	106	80-120	1	0-20	
Selenium	97	97	80-120	0	0-20	
Silver	100	100	80-120	0	0-20	
Thallium	98	95	80-120	3	0-20	
Vanadium	102	101	80-120	1	0-20	
Zinc	90	90	80-120	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.	Date Received:	N/A
3475 East Foothill Blvd., Suite 300	Work Order No:	06-09-1593
Pasadena, CA 91107-6024	Preparation:	EPA 3005A Filt.
	Method:	EPA 200.8

Project: BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-008-785	Aqueous	ICP/MS A	10/02/06	10/02/06	061002L03F

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Iron	99	104	85-115	5	0-20	
Manganese	105	106	85-115	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.		Date Received:	N/A
3475 East Foothill Blvd., Suite 300		Work Order No:	06-09-1593
Pasadena, CA 91107-6024		Preparation:	EPA 7470A Filt.
		Method:	EPA 7470A

Project: BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-008-2,671	Aqueous	Mercury	09/29/06	09/29/06	060929L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	109	109	90-122	0	0-14	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Tetra Tech, Inc.
3475 East Foothill Blvd., Suite 300
Pasadena, CA 91107-6024

Date Received:	N/A
Work Order No:	06-09-1593
Preparation:	EPA 3520B
Method:	EPA 8270C(M) Isotope Dilution

Project: BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-09-004-656	Aqueous	GC/MS P	10/02/06	10/03/06	061002L04D

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
1,4-Dioxane	98	102	50-130	4	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.	Date Received:	N/A
3475 East Foothill Blvd., Suite 300	Work Order No:	06-09-1593
Pasadena, CA 91107-6024	Preparation:	EPA 3520B
	Method:	EPA 1625CM

Project: BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-07-027-283	Aqueous	GC/MS H	10/03/06	10/05/06	061003L02

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
N-Nitrosodimethylamine	97	95	50-130	2	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.	Date Received:	N/A
3475 East Foothill Blvd., Suite 300	Work Order No:	06-09-1593
Pasadena, CA 91107-6024	Preparation:	EPA 5030B
	Method:	EPA 8260B

Project: BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-006-19,255	Aqueous	GC/MS U	10/02/06	10/02/06	061002L02

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	99	100	84-120	1	0-8	
Carbon Tetrachloride	108	108	63-147	0	0-10	
Chlorobenzene	99	100	89-119	1	0-7	
1,2-Dichlorobenzene	102	101	89-119	1	0-9	
1,1-Dichloroethene	102	101	77-125	1	0-16	
Toluene	102	102	83-125	0	0-9	
Trichloroethene	101	101	89-119	0	0-8	
Vinyl Chloride	93	91	63-135	2	0-13	
Methyl-t-Butyl Ether (MTBE)	96	96	82-118	0	0-13	
Tert-Butyl Alcohol (TBA)	89	89	46-154	0	0-32	
Diisopropyl Ether (DIPE)	100	100	81-123	0	0-11	
Ethyl-t-Butyl Ether (ETBE)	96	97	74-122	2	0-12	
Tert-Amyl-Methyl Ether (TAME)	96	98	76-124	3	0-10	
Ethanol	84	88	60-138	5	0-32	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.		Date Received:	N/A
3475 East Foothill Blvd., Suite 300		Work Order No:	06-09-1593
Pasadena, CA 91107-6024		Preparation:	EPA 5030B
		Method:	EPA 8260B

Project: BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-006-19,295	Aqueous	GC/MS U	10/06/06	10/06/06	061006L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	108	107	84-120	1	0-8	
Carbon Tetrachloride	116	118	63-147	2	0-10	
Chlorobenzene	109	109	89-119	1	0-7	
1,2-Dichlorobenzene	111	110	89-119	1	0-9	
1,1-Dichloroethene	101	104	77-125	2	0-16	
Toluene	112	109	83-125	2	0-9	
Trichloroethene	113	110	89-119	3	0-8	
Vinyl Chloride	109	110	63-135	0	0-13	
Methyl-t-Butyl Ether (MTBE)	104	108	82-118	3	0-13	
Tert-Butyl Alcohol (TBA)	100	106	46-154	6	0-32	
Diisopropyl Ether (DIPE)	107	109	81-123	2	0-11	
Ethyl-t-Butyl Ether (ETBE)	104	107	74-122	3	0-12	
Tert-Amyl-Methyl Ether (TAME)	109	110	76-124	1	0-10	
Ethanol	96	106	60-138	10	0-32	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.		Date Received:	N/A
3475 East Foothill Blvd., Suite 300		Work Order No:	06-09-1593
Pasadena, CA 91107-6024		Preparation:	EPA 5030B
		Method:	SRL 524M-TCP

Project: BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-022-274	Aqueous	GC/MS M	10/02/06	10/02/06	061002L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
1,2,3-Trichloropropane	95	82	80-120	14	0-20	
1,4-Dioxane	87	89	80-120	2	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.
3475 East Foothill Blvd., Suite 300
Pasadena, CA 91107-6024

Date Received: N/A
Work Order No: 06-09-1593

Project: BOU Groundwater Monitoring 2006 (PAC Wells) / 17653-0603

Matrix: Aqueous

Parameter	Method	Quality Control Sample ID	Date Extracted	Date Analyzed	LCS % REC	LCSD % REC	%REC CL	RPD	RPD CL	Qual
Chloride	EPA 300.0	099-05-118-3,602	N/A	09/28/06	96	95	81-111	1	0-5	
Nitrite (as N)	EPA 300.0	099-05-118-3,602	N/A	09/28/06	91	90	73-115	1	0-26	
Nitrate (as N)	EPA 300.0	099-05-118-3,602	N/A	09/28/06	94	94	87-111	0	0-12	
Sulfate	EPA 300.0	099-05-118-3,602	N/A	09/28/06	98	96	89-107	2	0-13	
Chromium, Hexavalent	EPA 218.6	099-05-124-533	N/A	09/28/06	103	101	95-107	1	0-20	
Perchlorate	EPA 314.0	099-05-203-469	N/A	09/29/06	93	105	85-115	12	0-15	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 06-09-1593

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.

TETRA TECH, INC.
3475 E. FOOTHILL BLVD.
PASADENA, CALIFORNIA 91107
TELEPHONE (626) 351-4664
FAX (626)351-5291

SHIPPED TO: CAL SCIENCE
7440 LINCOLN WAY
GARDEN GROVE, CA 714-895-5494

CHAIN OF CUSTODY RECORD

DATE 9/28/06 PAGE 1 OF 1593

CLIENT: LOCKHEED MARTIN CORP
PROJECT NAME: 2006 BOU
Groundwater Monitoring (PACWELLS)
TASK MANAGER: Neil Shukla
TC #: 17653-0603
SAMPLERS (SIGNATURES) [signature]

EXTRACTION/ANALYTICAL METHODS

TURN-AROUND TIME: STANDARD

	SAMPLE NO.	DATE	TIME	VOCs EPA 8260B w/ Freon, MTBE - TICS	123-TCP EPA 504.1 (524.2/LLE-GCMS+PTOC/MS)	Title 22 Metals EPA 6010B/7000 (FILTERED)	Hexavalent Chromium EPA 218.6	1,4-Dioxane EPA 8270C-SIM	NDMA EPA 1625C	Perchlorate EPA 314.0	Dissolved Fe + Mn, Total Cr (6000) EPA 200.8 (FILTERED)	CATIONS/ANIONS EPA 6010/300.0	Dissolved Oxygen SM 4000/EPA 360.1	Sulfide EPA 300.0	Nitrate/Nitrite EPA 300.0				MATRIX TYPE	PRESERVATIVE	CONTAINER TYPE	NUMBER OF CONTAINERS		OBSERVATIONS /COMMENTS
				X	X	X	X	X	X	X	X	X	X	X	X									
1	TT TB092806	9/28/06	0800	X															W	✓	G	2		
2	MW-7		0855	X	X	X	X	X	X	X	X	X	X	X	X				W	✓	G/P	14		
3	MW-8		1023	X	X	X	X	X	X	X	X	X	X	X	X				W	✓	G/P	14		
4	MW-3		1205	X	X	X	X	X	X	X	X	X	X	X	X				W	✓	G/P	14		
5	MW-5		1326	X	X	X	X	X	X	X	X	X	X	X	X				W	✓	G/P	14		
6	TT FB092806		1333	X															W	✓	G	3		

MATRIX TYPE: S - SOIL, W - WATER, SL - SLUDGE
CONTAINER TYPE: G - GLASS BOTTLE/VOA, SS - STAINLESS STEEL SLEEVE, P - PLASTIC
PRESERVATIVES: HCL, NR (NONE REQUIRED)
TEMPERATURE BLANK EACH COOLER: YES / NO

RELINQUISHED BY	SIGNATURE		DATE	TIME	
NORMAN NG	[signature]	TETRA TECH, INC.	9/28/06	1615	TOTAL NUMBER OF CONTAINERS: 61
RECEIVED BY: WILLIAM BATIN	SIGNATURE: [signature]	COMPANY: CEL	DATE: 9-28-06	TIME: 1615	METHOD OF SHIPMENT: LAB PICK UP
RELINQUISHED BY: WILLIAM BATIN	SIGNATURE: [signature]	COMPANY: CEL	DATE: 9-28-06	TIME: 1738	SPECIAL SHIPMENT/HANDLING OR STORAGE REQUIREMENTS
RECEIVED BY: [signature]	SIGNATURE: [signature]	COMPANY: CEL	DATE: 9-28-06	TIME: 1738	AIRBILL NO:

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 06 - 0 9 - 1 5 9 3

Cooler 1 of 2

SAMPLE RECEIPT FORM

CLIENT: TETRA TECH

DATE: 9-28-06

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.
- 3.1 °C Temperature blank.

LABORATORY (Other than Calscience Courier):

- ____ °C Temperature blank.
- ____ °C IR thermometer.
- ____ Ambient temperature.

Initial: WB

CUSTODY SEAL INTACT:

Sample(s): ____ Cooler: ____ No (Not Intact) : ____ Not Applicable (N/A): ✓

Initial: WB

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: WB

COMMENTS:

All 4 (500ml w/p amber bottles) for Do have a small amount of headspace. SP 9.28.06

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 06 - 0 9 - 1 5 9 3

Cooler 2 of 2

SAMPLE RECEIPT FORM

CLIENT: TETRA TECH DATE: 9-28-06

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.

LABORATORY (Other than Calscience Courier):

_____ °C Temperature blank.
_____ °C IR thermometer.
_____ Ambient temperature.

3.2 °C Temperature blank. Initial: WB

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: _____ No (Not Intact) : _____ Not Applicable (N/A): ✓

Initial: WB

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: WB

COMMENTS:

Calscience
Environmental
Laboratories, Inc.

EPA 1625C(M) NDMA

Tetra Tech, Inc.

CEL #06-09-1593

BOU Groundwater Monitoring 2006 (PAC Wells) /
17653-0603

7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL: (714) 895-5494 • FAX: (714) 894-7501

Start D=Date T=Time	pH Adjust D=Date T=Time	End D=Date T=Time	Matrix S=Soil A=Aqueous O=Oil Other(specify)	Extraction 1=3510 Sep 2=3520 C-LL 4=3540 Sox 5=3550 Son 8=3580 Dil	Client Name	Analysis	Work Order Number	Sample Initial (g/mL)	Sample Final (mL)	Solvent Lot Number	Solvent Name/ Symbol	Solvent Volume (mL)	Who	Comment
D) 10-3-06 T) 5:00	D) / T)	D) 10-4-06 T) 11:00	S (A) O	1 (2) 4 5 8	TT	MDMA 1625 cm	06 - 09 - 1427 - 2J	1050	1.0	EMX-SJ-22	CH2Cl2	350	JL	pH ~ 8
D) T)	D) T)	D) T)	S A O	1 2 4 5 8			- - - 3K	1050						
D) T)	D) T)	D) T)	S A O	1 2 4 5 8			- - - 4K	1050						
D) T)	D) T)	D) T)	S A O	1 2 4 5 8			- - - 5K	1050						
D) T)	D) T)	D) T)	S A O	1 2 4 5 8			- - 0 - 6L	1050						
D) T)	D) T)	D) T)	S A O	1 2 4 5 8			- - 1498 - 2G	1050						
D) T)	D) T)	D) T)	S A O	1 2 4 5 8			- - - 3G	1050						
D) T)	D) T)	D) T)	S A O	1 2 4 5 8			- - - 4G	1050						
D) T)	D) T)	D) T)	S A O	1 2 4 5 8			- - 1593 - 2M	1050						
D) T)	D) T)	D) T)	S A O	1 2 4 5 8			- - - 3L	1050						
D) T)	D) T)	D) T)	S A O	1 2 4 5 8			- - - 4M	1050						
D) T)	D) T)	D) T)	S A O	1 2 4 5 8			- - 0 - 5L	1050						
D) T)	D) T)	D) T)	S A O	1 2 4 5 8			- - 1678 - 1L	1050						
D) T)	D) T)	D) T)	S A O	1 2 4 5 8			- - - 2L	1050						
D) T)	D) T)	D) T)	S A O	1 2 4 5 8			- - 1679 - 2W	1050						pH ~ 10
D) T)	D) T)	D) T)	S A O	1 2 4 5 8			- - - 3N	1050						pH ~ 10
D) T)	D) T)	D) T)	S A O	1 2 4 5 8			- - - 4N	1050						pH ~ 8
D) 0 T)	D) 0 T)	D) 0 T)	S (A) O	1 (2) 4 5 8	ENVIRON	0	0 - 0 - 1474 - 1G	1040	0	0	0	0	0	pH ~ 8
D) T)	D) T)	D) T)	S A O	1 2 4 5 8			- - -							
D) T)	D) T)	D) T)	S A O	1 2 4 5 8			- - -							

Reviewed by: _____ Date: _____ / _____ / _____

Work Order Number	(LCS/MB/SA) Batch Number	Surrogate / Nitrogen dk Lot Number	Surrogate Conc (ppm)	Surrogate Volume (mL)	LCS Lot Number	LCS Conc (ppm)	LCS Volume (mL)	MS/MSD Acid Lot Number	MS/MSD Acid Conc (ppm)	MS/MSD Acid Volume (mL)	MS/MSD B/N Lot Number	MS/MSD B/N Conc (ppm)	MS/MSD B/N Volume (mL)	Who	Comment
06 - 09 - 1427 2-6	061003 L02	E042806G	1	0.02	—	—	—	—	—	—	—	—	—	JZ	
- - 1498 2-4		E042806D	1	0.02											
- - 1593 2-5															
- - 1678 1-2															
- - 1679 2-4															
- - 1474 - 1															surrogate (x2)
- BLK -															
- LCS/LCSD -					E042806F	1	0.02								
06 - 09 - 1678-1 MS					—	—	—				E042806F	1	0.02		
06 - 09 - 1678-1 MSD															
- - 1679-2 MS															
- - 1679-2 MSD															

Reviewed by: _____ Date: ____ / ____ / ____

02/23/95 Revision

INITIAL CALIBRATION QUALITY CONTROL SHEET FOR METHOD : EPA 1625CM

INSTRUMENT NAME: GC/MS H

INITIAL BATCH: 060921

INITIAL DATE ANALYZED: 9/21/06

REVIEWED BY:

DATE REVIEWED:

CCV BATCH: 061005

CCV DATE ANALYZED: 10/5/06

TYPE	COMPOUND NAME	INITIAL RF	CCV RF	CCV DIF	CONTROL LIMIT	STATUS
C	N-Nitrosodimethylamine	1.192	1.355	13	0-20	SAT

INITIAL CALIBRATION QUALITY CONTROL SHEET FOR METHOD : EPA 1625CM

INSTRUMENT NAME: GC/MS H

INITIAL BATCH: 060921

INITIAL DATE ANALYZED: 9/21/06

REVIEWED BY:

DATE REVIEWED:

CCV BATCH: 061006

CCV DATE ANALYZED: 10/6/06

TYPE	COMPOUND NAME	INITIAL RF	CCV RF	CCV DIF	CONTROL LIMIT	STATUS
C	N-Nitrosodimethylamine	1.192	1.407	18	0-20	SAT

Injection Log

Directory: C:\MSDCHEM\1\DATA\060921

No.	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
2		21SEP002.D	1.	NDMA 2PPB S092106K		21 Sep 2006 16:4[illegible]
3		21SEP004.D	1	NDMA 10PPB S092106J		21 Sep 2006 17:4[illegible]
4		21SEP006.D	1.	NDMA 20PPB S092106H		21 Sep 2006 18:36
5		21SEP008.D	1.	NDMA 50PPB S092106G		21 Sep 2006 19:30
6		21SEP010.D	1.	NDMA 100PPB S092106F		21 Sep 2006 20:25
7		21SEP012.D	1.	NDMA 20 ICV S061506L		21 Sep 2006 21:19

Response Factor Report GCMS E

Method : C:\MSDCHEM\1\METHODS\NDMA060921.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Sep 22 13:10:12 2006
Response Via : Initial Calibration

Calibration Files
2 =21SEP002.D 10 =21SEP004.D 20 =21SEP006.D
50 =21SEP008.D 100 =21SEP010.D

		Compound	2	10	20	50	100	Avg	%RSD
1)	1	N-Nitrosodimethylamin	ISTD						
2)	T	N-Nitrosodimethyl	1.170	1.146	1.262	1.219	1.164	1.192	3.97
3)	S	1,4-Dichlorobenze	2.982	3.126	3.226	3.181	2.844	3.072	5.11

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\060921\21SEP002.D Vial: 2
Acq On : 21 Sep 2006 4:49 pm Operator :
Sample : NDMA 2PPB 5092106K Inst : GCMS 4
Misc Multiplier : 1.00
MS Integration Params: rteint.p
Quant Time: Sep 21 17:07:52 2006 Quant Results File: NDMA060720.RES

Quant Method : C:\MSDCHEM\1\METHODS\NDMA060720.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Jul 21 16:56:30 2006
Response via : Initial Calibration
DataAcq Meth : NDMASIM3

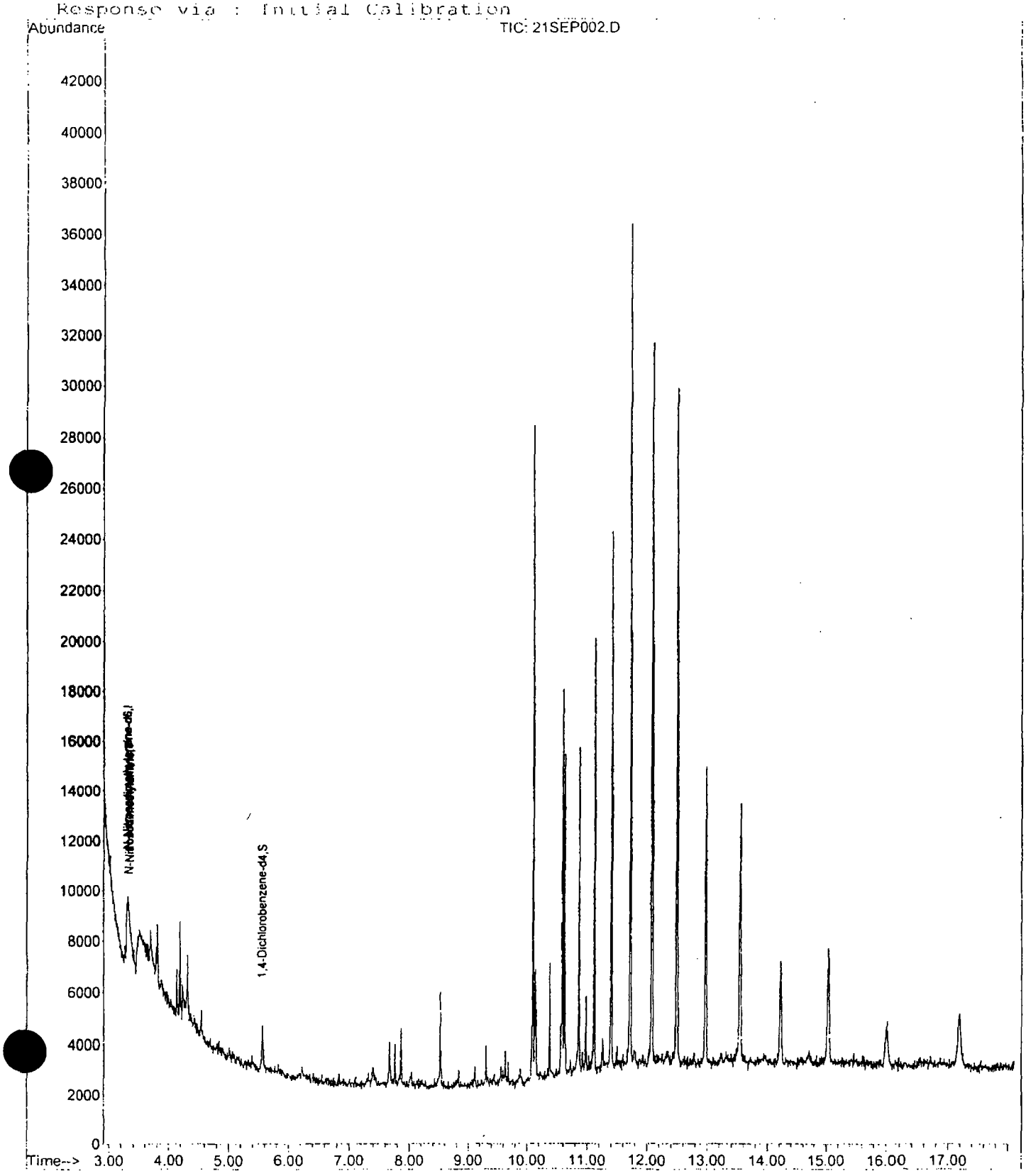
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) N-Nitrosodimethylamine-d6	3.31	80	3991m	20.00	ug/l	0.04
System Monitoring Compounds						
3) 1,4-Dichlorobenzene-d4	5.55	150	1190	1.91	ug/l	-0.08
Spiked Amount 20.000			Recovery	=	9.55%	
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.34	74	467m	2.18	ug/l	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\060921\21SEP002.D Vial : 2
Acq On : 21 Sep 2006 4:49 pm Operator :
Sample : NDMA 2PPB S092106R Inst : GCMS 1
Misc : Multiplier : 1.00
MS Integration Parameters: extract.p
Quant Time: Sep 22 17:08 2006 Quant Results File: NDMA060720.RES

Method : C:\MSDCHEM\1\METHODS\NDMA060921.M (RTE Integrator)
Title : CLP DNA Calibration
Last Update : Fri Sep 22 17:02:04 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\060921\21SEP004.D Vial: 2
Acq On : 21 Sep 2006 5:43 pm Operator:
Sample : NDMA 10PPB S0921000 Inst : GCMS II
Misc Multiplier: 1.00
MS Integration Params: rtcint.p
Quant Time: Sep 22 08:41:07 2006 Quant Results File: NDMA060720.RES

Quant Method : C:\MSDCHEM\1\METHODS\NDMA060720.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Jul 21 16:56:30 2006
Response via : Initial Calibration
DataAcq Meth : NDMASIM3

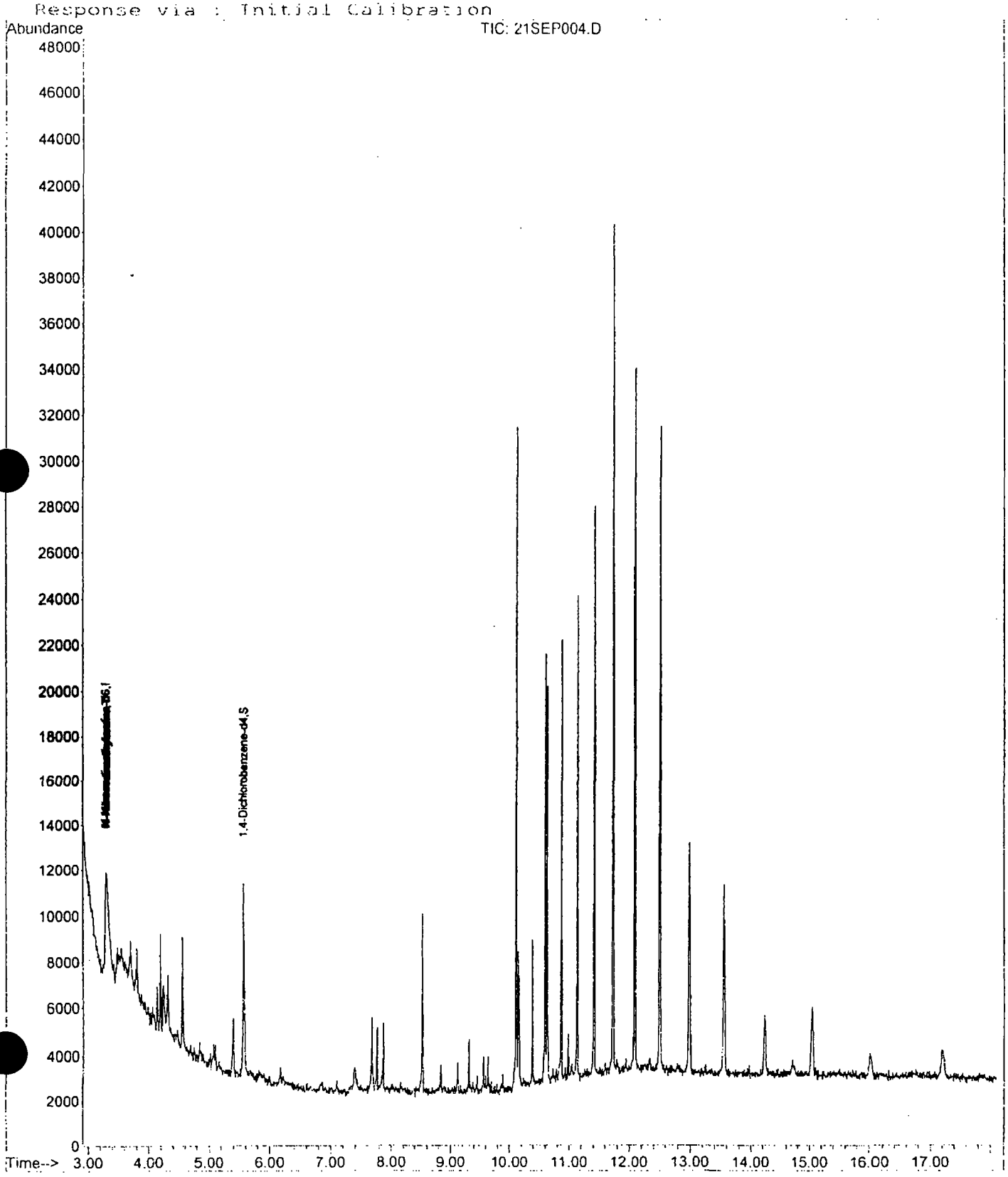
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) N-Nitrosodimethylamine-d6	3.30	80	3948m	20.00	ug/l	0.03
System Monitoring Compounds						
3) 1,4-Dichlorobenzene-d4	5.55	150	6170m	10.03	ug/l	-0.08
Spiked Amount 20.000			Recovery	=	50.15%	
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.30	74	2263m	10.66	ug/l	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\060921\21SEP004.D Vial: 3
Acq On : 21 Sep 2006 5:23 pm Operator:
Sample : NDMA 10PPB S0921060 Inst : GCMS H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 22 8:42 2006 Quant Results File: NDMA060720 RR

Method : C:\MSDCHEM\1\METHODS\NDMA060921.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Jul 21 16:56:30 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : [illegible] Vial: [illegible]
Acq On : 21 Sep 2006 6:36 pm Operator:
Sample : NDMA 20PPB [illegible] Inst : GCMS H
Misc : Multiplier: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 22 08:44:24 2006 Quant Results File: NDMA060720.RES

Quant Method : C:\MSDCHEM\1\METHODS\NDMA060720.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Jul 21 16:56:30 2006
Response via : Initial Calibration
DataAcq Meth : NDMASIM3

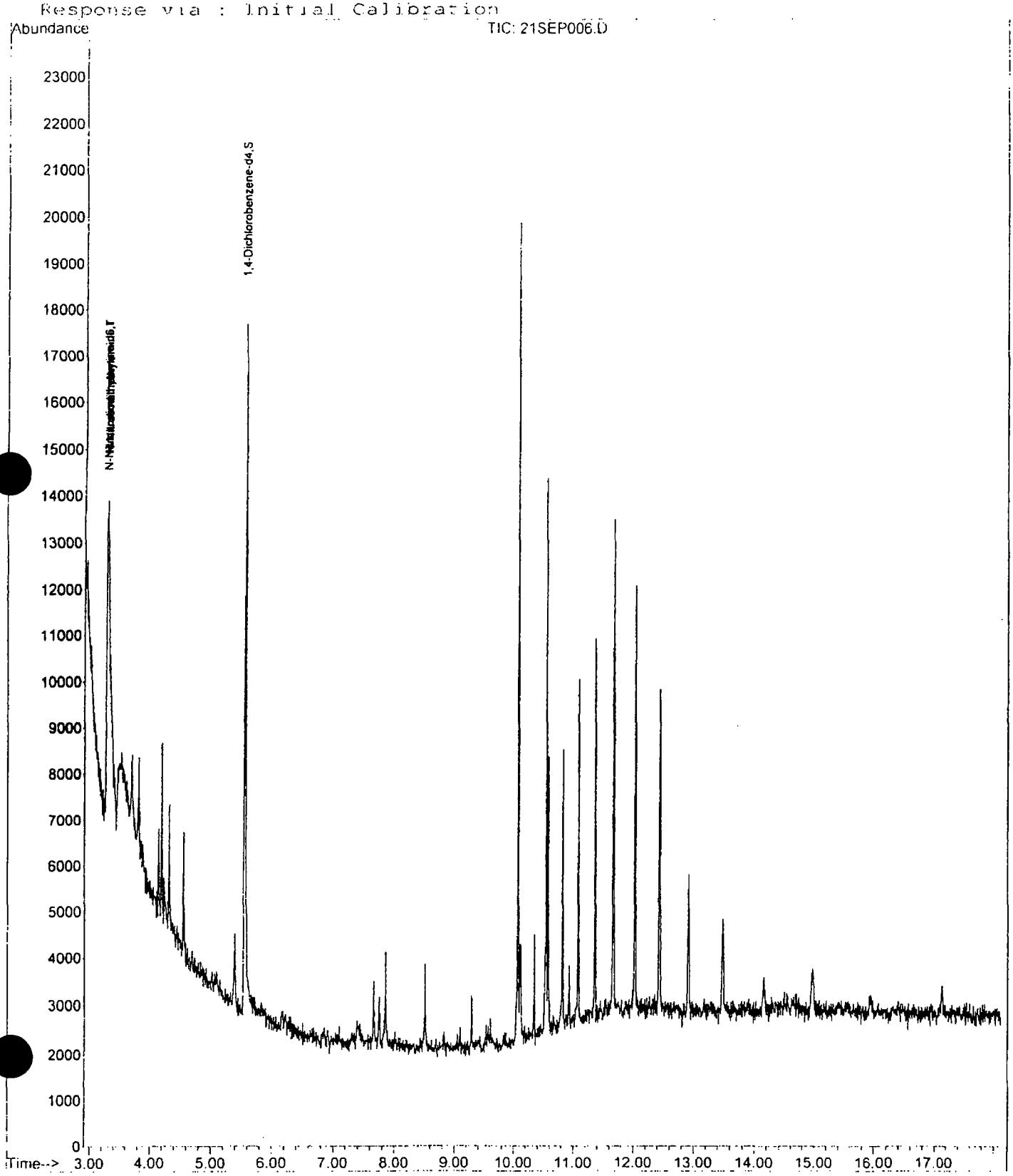
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) N-Nitrosodimethylamine-d6	3.28	80	3624m	20.00 ug/l	0.01
System Monitoring Compounds					
3) 1,4-Dichlorobenzene-d4	5.55	150	11690m	20.70 ug/l	-0.08
Spiked Amount 20.000			Recovery	= 103.50%	
Target Compounds					Qvalue
2) N-Nitrosodimethylamine	3.29	74	4573m	23.46 ug/l	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\060921\21SEP006.D Vial: 4
Acq On : 21 Sep 2006 6:34 pm Operator:
Sample : NDMA 20PPB S0921060 Inst : GCMS H
Misc Multiplier: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 22 9:16 2006 Quant Results File: NDMA060720 RES

Method : C:\MSDCHEM\1\METHODS\NDMA060921.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Jul 21 16:56:30 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\060921\21SEP008.D
Acq On : 21 Sep 2006 7:30 pm
Sample : NDMA 50PPB S0921068
Misc :
MS Integration Params: rteint.p
Quant Times: Sep 22 09:06:46 2006
Quant Results File: NDMA060720.RES

Quant Method : C:\MSDCHEM\1\METHODS\NDMA060720.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Jul 21 16:56:30 2006
Response via : Initial Calibration
DataAcq Meth : NDMASIM3

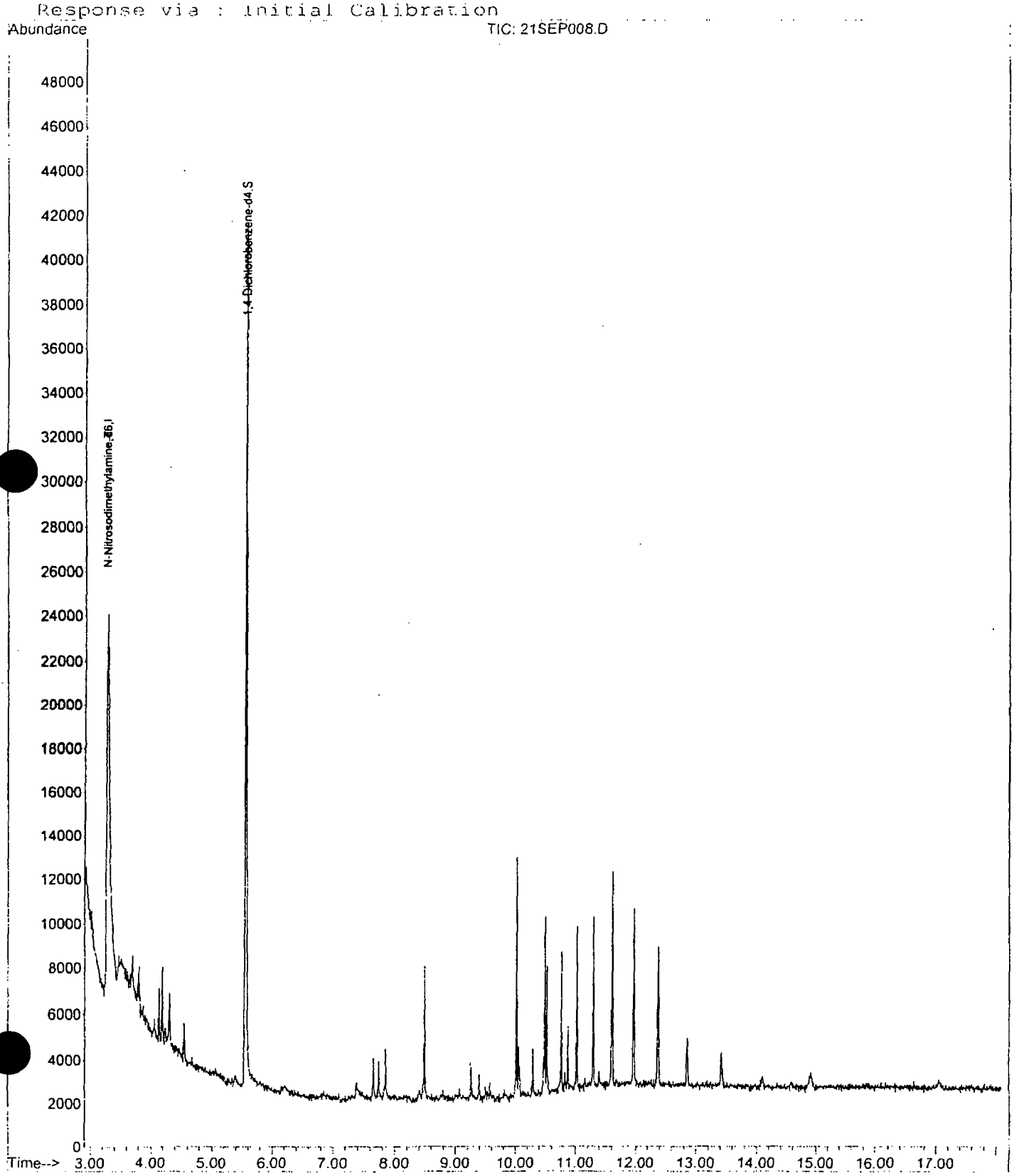
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) N-Nitrosodimethylamine-d6	3.26	80	3589m	20.00 ug/l	0.00
System Monitoring Compounds					
3) 1,4-Dichlorobenzene-d4	5.55	150	28543m	51.03 ug/l	-0.08
Spiked Amount 20.000			Recovery	= 255.15%	
Target Compounds					Qvalue
2) N-Nitrosodimethylamine	3.27	74	10938m	56.66 ug/l	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\060921\21SEP008.D Vial: 8
Acq On : 21 Sep 2006 7:30 pm Operator:
Sample : NDMA 50PPB S0921060 Inst : GCMS H
Misc Multiplier: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 22 9:17 2006 Quant Results File: NDMA060720.RES

Method : C:\MSDCHEM\1\METHODS\NDMA060921.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Jul 21 16:56:30 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\060921\21SEP010.D Vial: 6
Acq On : 21 Sep 2006 8:25 pm Operator:
Sample : NDMA 100PPB S092106F Inst : GCMS H
Misc : Multiplier: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 22 09:13:02 2006 Quant Results File: NDMA060720.PES

Quant Method : C:\MSDCHEM\1\METHODS\NDMA060720.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Jul 21 16:56:30 2006
Response via : Initial Calibration
DataAcq Meth : NDMASIM3

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) N-Nitrosodimethylamine-d6	3.25	80	4311m	20.00	ug/l	-0.02
System Monitoring Compounds						
3) 1,4-Dichlorobenzene-d4	5.55	150	61298m	91.24	ug/l	-0.08
Spiked Amount 20.000			Recovery	=	456.20%	
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.25	74	25088m	108.20	ug/l	

(#) = qualifier out of range (m) = manual integration

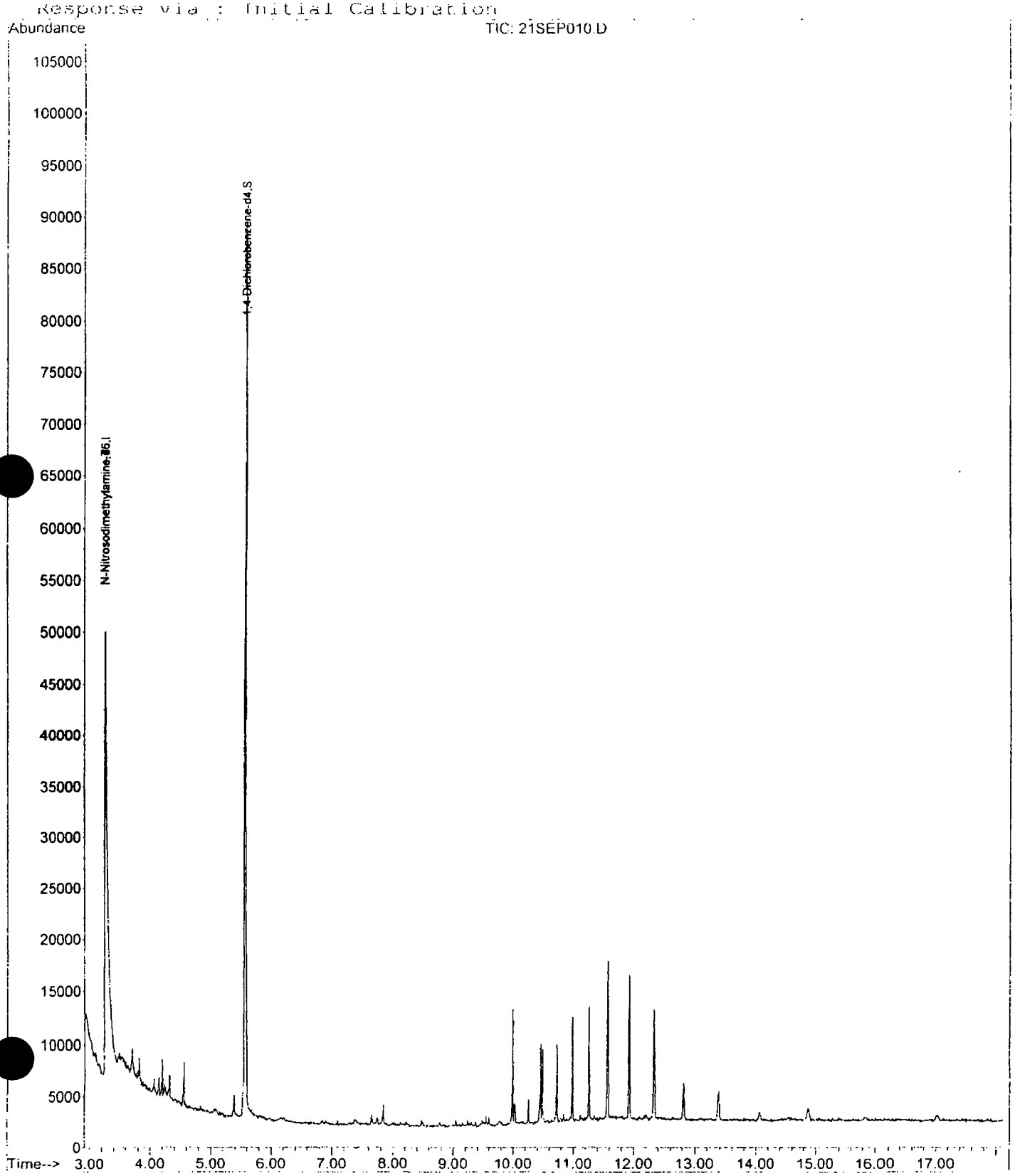
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\060921\21SEP010.D
Acq Date : 21 Sep 2006 8:35 pm
Sample : NDMA 100PPB S092104D
Misc
MS Integration Params: rteint.p
Quant Time: Sep 22 9:22 2006

Operator
Inst : GCMS B
Multiplier : 1.00

Quant Results File: NDMA060720.RES

Method : C:\MSDCHEM\1\METHODS\NDMA060921.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Jul 21 16:56:30 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1...\DATA\060921\21SEP012.D Vial: 3
Acq On : 21 Sep 2006 9:19 pm Operator:
Sample : NDMA 20 TCV S061506L Inst : GCMS H
Misc : Multiplr: 1.00
MS Integration Params: rte.int.p
Quant Time: Sep 22 17:10:33 2006 Quant Results File: NDMA060921 3.RE

Quant Method : C:\MSDCHEM\1...\NDMA060921-3.M (RTE Integrator)
Title : CLP PNA Calibration
Last Update : Fri Sep 22 17:10:12 2006
Response via : Initial Calibration
DataAcq Meth : NDMASIM3

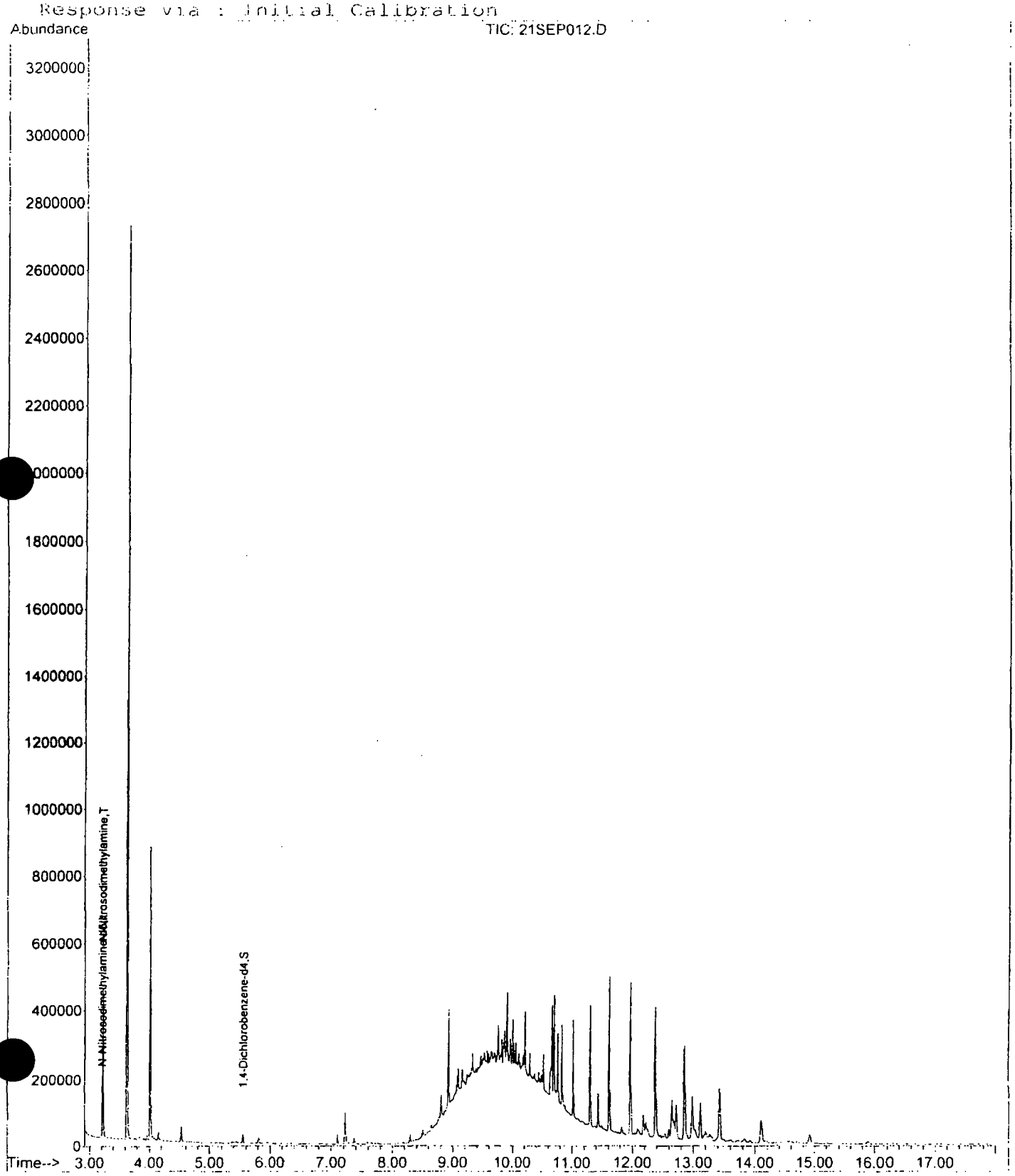
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) N-Nitrosodimethylamine-d6	3.20	80	3763m	20.00	ug/l	-0.08
System Monitoring Compounds						
3) 1,4-Dichlorobenzene-d4	5.55	150	13341	23.08	ug/l	0.00
Spiked Amount 20.000			Recovery	=	115.40%	
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.21	74	3744	16.69	ug/l #	57

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\060921\21SEP012.D Vial: 9
Acq On : 21 Sep 2006 9:12 pm Operator:
Sample : NDMA 20 ICV 50615051 Inst : GCMS 4
Misc : Multiplier: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 22 17:11 2006 Quant Results File: NDMA060921-3.M

Method : C:\MSDCHEM\1\METHODS\NDMA060921 3.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Sep 22 17:10:12 2006
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\060921\21SEP012.D Vial: 7
Acq On : 21 Sep 2006 9:19 pm Operator:
Sample : NDMA 20 ICV 50615061 Inst : CCDD_H
Misc : Multiplier : 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\NDMA060921-3.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Sep 22 17:10:12 2006
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	N-Nitrosodimethylamine-d6	1.000	1.000	0.0	104	-0.08
2	T	N-Nitrosodimethylamine	1.192	0.995	16.5	82	-0.08
3	S	1,4-Dichlorobenzene-d4	3.072	3.545	-15.4	114	0.00

Injection Log

Directory: C:\MSDCHEM\1\DATA\061005

Inj	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
	1	05OCT001.D	1.	NDMA 20PPB S061606G		5 Oct 2006 11:42
	2	05OCT002.D	1.	NDMA MB 061003-L02		5 Oct 2006 12:23
	3	05OCT003.D	1.	NDMA LCS 061003-L02		5 Oct 2006 12:50
	4	05OCT004.D	1.	NDMA LCSD 061003-L02		5 Oct 2006 13:17
	5	05OCT005.D	1.	09-1678-1 MS		5 Oct 2006 13:45
	6	05OCT006.D	1.	09-1678-1 MSD		5 Oct 2006 14:12
	7	05OCT007.D	1.	09-1679-2 MS		5 Oct 2006 14:39
	8	05OCT008.D	1.	09-1679-2 MSD		5 Oct 2006 15:05
	9	05OCT009.D	1.	09-1678-1		5 Oct 2006 15:32
10	10	05OCT010.D	1.	09-1678-2		5 Oct 2006 15:59
11	11	05OCT011.D	1.	09-1679-2		5 Oct 2006 16:26
12	12	05OCT012.D	1.	09-1679-3		5 Oct 2006 16:53
13	13	05OCT013.D	1.	09-1679-4		5 Oct 2006 17:20
14	14	05OCT014.D	1.	09-1498-2		5 Oct 2006 17:48
15	15	05OCT015.D	1.	09-1498-3		5 Oct 2006 18:15
16	16	05OCT016.D	1.	09-1498-4		5 Oct 2006 18:42
17	17	05OCT017.D	1.	09-1593-2		5 Oct 2006 19:09
18	18	05OCT018.D	1.	09-1593-3		5 Oct 2006 19:37
19	20	05OCT020.D	1.	09-1593-5		5 Oct 2006 20:31
20	21	05OCT021.D	1.	09-1427-2		5 Oct 2006 20:58
21	22	05OCT022.D	1.	09-1427-3		5 Oct 2006 21:25
22	24	05OCT024.D	1.	09-1427-5		5 Oct 2006 22:19
23	25	05OCT025.D	1.	09-1427-6		5 Oct 2006 22:47
24	26	05OCT026.D	1.	09-1474-1		5 Oct 2006 23:14

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\061005\05OCT001.D Vial: 1
Acq On : 5 Oct 2006 11:42 am Operator:
Sample : NDMA 20PPB S061606G Inst : GCMS_H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 05 12:19:52 2006 Quant Results File: NDMA060921.RES

Quant Method : C:\MSDCHEM\1\METHODS\NDMA060921.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Sep 22 17:10:12 2006
Response via : Initial Calibration
DataAcq Meth : NDMASIM3

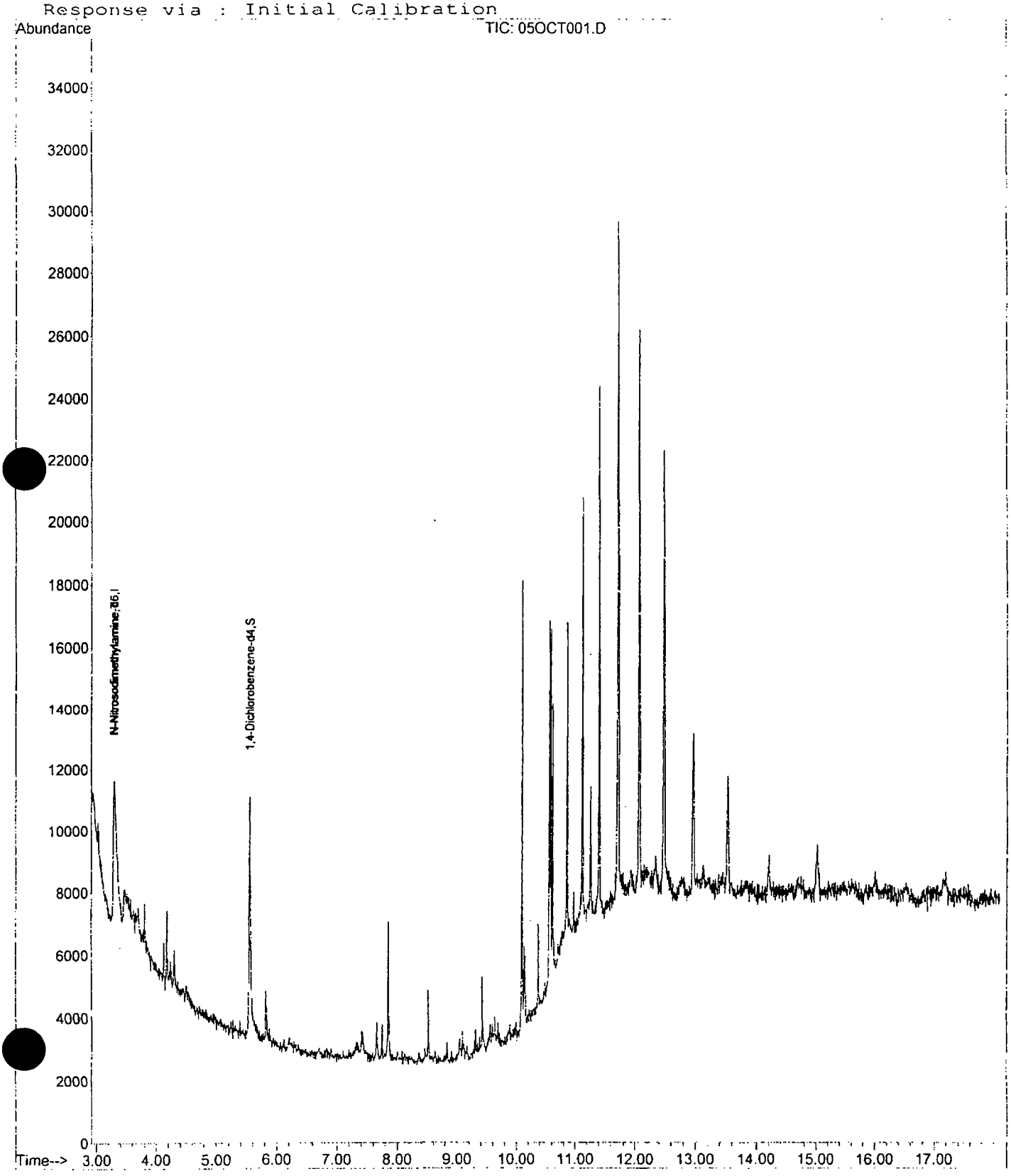
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) N-Nitrosodimethylamine-d6	3.29	80	2688m	20.00	ug/l	0.00
System Monitoring Compounds						
3) 1,4-Dichlorobenzene-d4	5.55	150	6699	16.23	ug/l	0.00
Spiked Amount 20.000			Recovery =	81.15%		
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	3.31	74	3641	22.72	ug/l #	45

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\061005\05OCT001.D Vial: 1
Acq On : 5 Oct 2006 11:42 am Operator:
Sample : NDMA 20PPB S061606G Inst : GCMS_H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 6 17:05 2006 Quant Results File: NDMA060921.RES

Method : C:\MSDCHEM\1\METHODS\NDMA060921.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Sep 22 17:10:12 2006
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\061005\05OCT001.D Vial: 1
Acq On : 5 Oct 2006 11:42 am Operator:
Sample : NDMA 20PPB S061606G Inst : GCMS_H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\NDMA060921.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Sep 22 17:10:12 2006
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	N-Nitrosodimethylamine-d6	1.000	1.000	0.0	74	0.00
2	T	N-Nitrosodimethylamine	1.192	1.355	-13.7	80	0.02
3	S	1,4-Dichlorobenzene-d4	3.072	2.492	18.9	57	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\061005\05OCT002.D Vial: 2
Acq On : 5 Oct 2006 12:23 pm Operator:
Sample : NDMA MB 061003-L02 Inst : GCMS_H
Misc : Multipli: 1.00
Integration Params: rteint.p
Quant Time: Oct 05 14:37:50 2006 Quant Results File: NDMA060921.RES

Quant Method : C:\MSDCHEM\1\METHODS\NDMA060921.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Sep 22 17:10:12 2006
Response via : Initial Calibration
DataAcq Meth : NDMASIM3

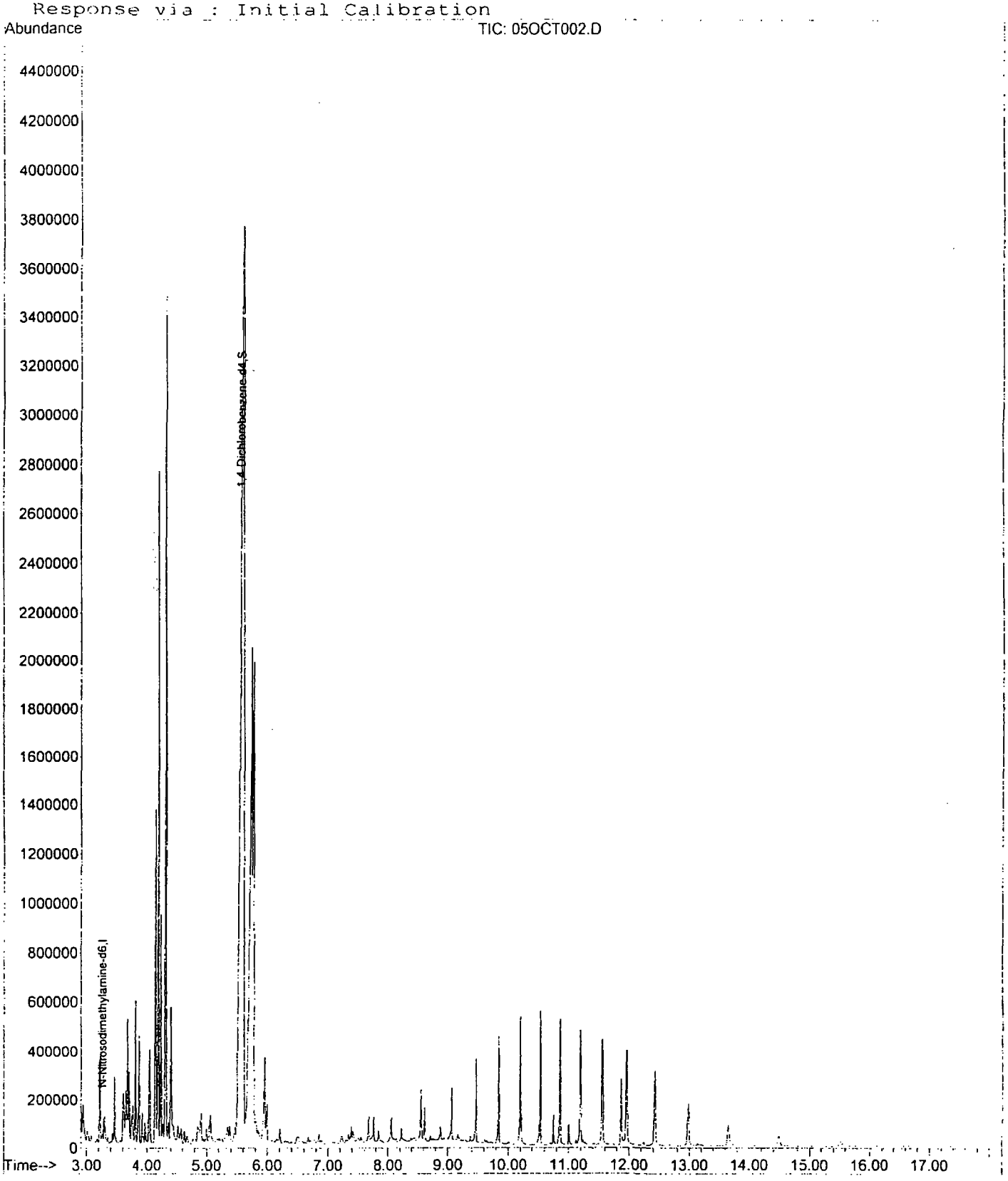
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) N-Nitrosodimethylamine-d6	3.25	80	2742	20.00 ug/l	-0.03
System Monitoring Compounds					
3) 1,4-Dichlorobenzene-d4	5.55	150	6396	15.19 ug/l	0.00
Spiked Amount 20.000			Recovery	= 75.95%	
Target Compounds					Qvalue
2) N-Nitrosodimethylamine	0.00	74	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\061005\05OCT002.D Vial: 1
Acq On : 5 Oct 2006 12:23 pm Operator:
Sample : NDMA MB 061003-L02 Inst : GCMS H
Misc : Multipir: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 5 14:37 2006 Quant Results File: NDMA060921.RES

Method : C:\MSDCHEM\1\METHODS\NDMA060921.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Sep 22 17:10:12 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\061005\05OCT003.D Vial: 3
Acq On : 5 Oct 2006 12:50 pm Operator:
Sample : NDMA LCS 061003-L02 Inst : GCMS_H
Misc : Multiplr: 1.00
Integration Params: rteint.p
Quant Time: Oct 05 14:38:16 2006 Quant Results File: NDMA060921.RES

Quant Method : C:\MSDCHEM\1\METHODS\NDMA060921.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Sep 22 17:10:12 2006
Response via : Initial Calibration
DataAcq Meth : NDMASIM3

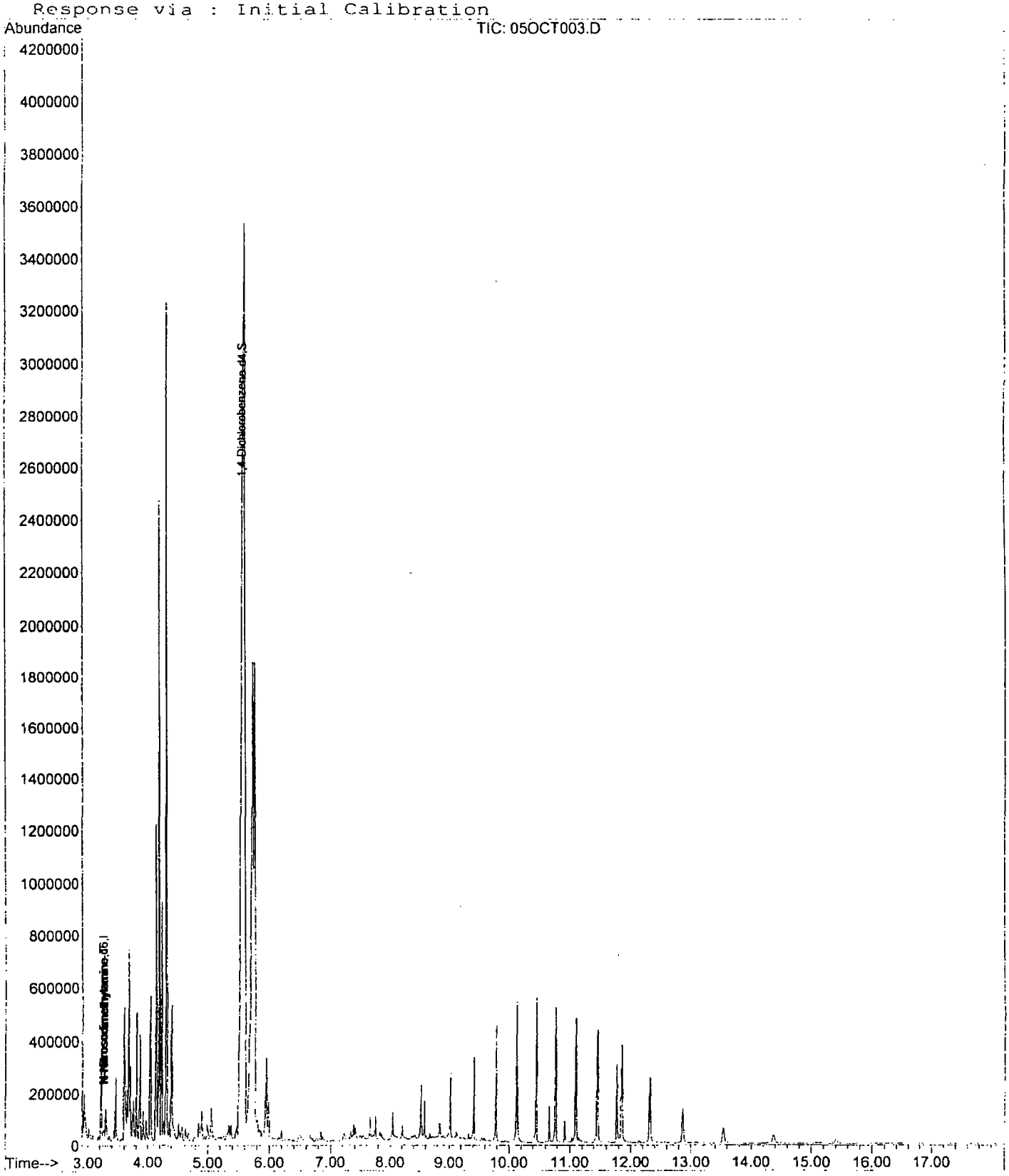
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) N-Nitrosodimethylamine-d6	3.25	80	2833	20.00 ug/l	-0.03
System Monitoring Compounds					
3) 1,4-Dichlorobenzene-d4	5.55	150	5957	13.69 ug/l	0.00
Spiked Amount 20.000			Recovery =	68.45%	
Target Compounds					Qvalue
2) N-Nitrosodimethylamine	3.26	74	3275	19.39 ug/l #	1

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\061005\05OCT003.D Vial: 3
Acq On : 5 Oct 2006 12:50 pm Operator:
Sample : NDMA LCS 061003-L02 Inst : GCMS_H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 5 14:38 2006 Quant Results File: NDMA060921.R

Method : C:\MSDCHEM\1\METHODS\NDMA060921.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Sep 22 17:10:12 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\061005\05OCT004.D Vial: 4
Acq On : 5 Oct 2006 1:17 pm Operator:
Sample : NDMA LCSD 061003-L02 Inst : GCMS_H
Misc : Multipli: 1.00
Integration Params: rteint.p
Quant Time: Oct 05 14:38:37 2006 Quant Results File: NDMA060921.RES

Quant Method : C:\MSDCHEM\1\METHODS\NDMA060921.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Sep 22 17:10:12 2006
Response via : Initial Calibration
DataAcq Meth : NDMASIM3

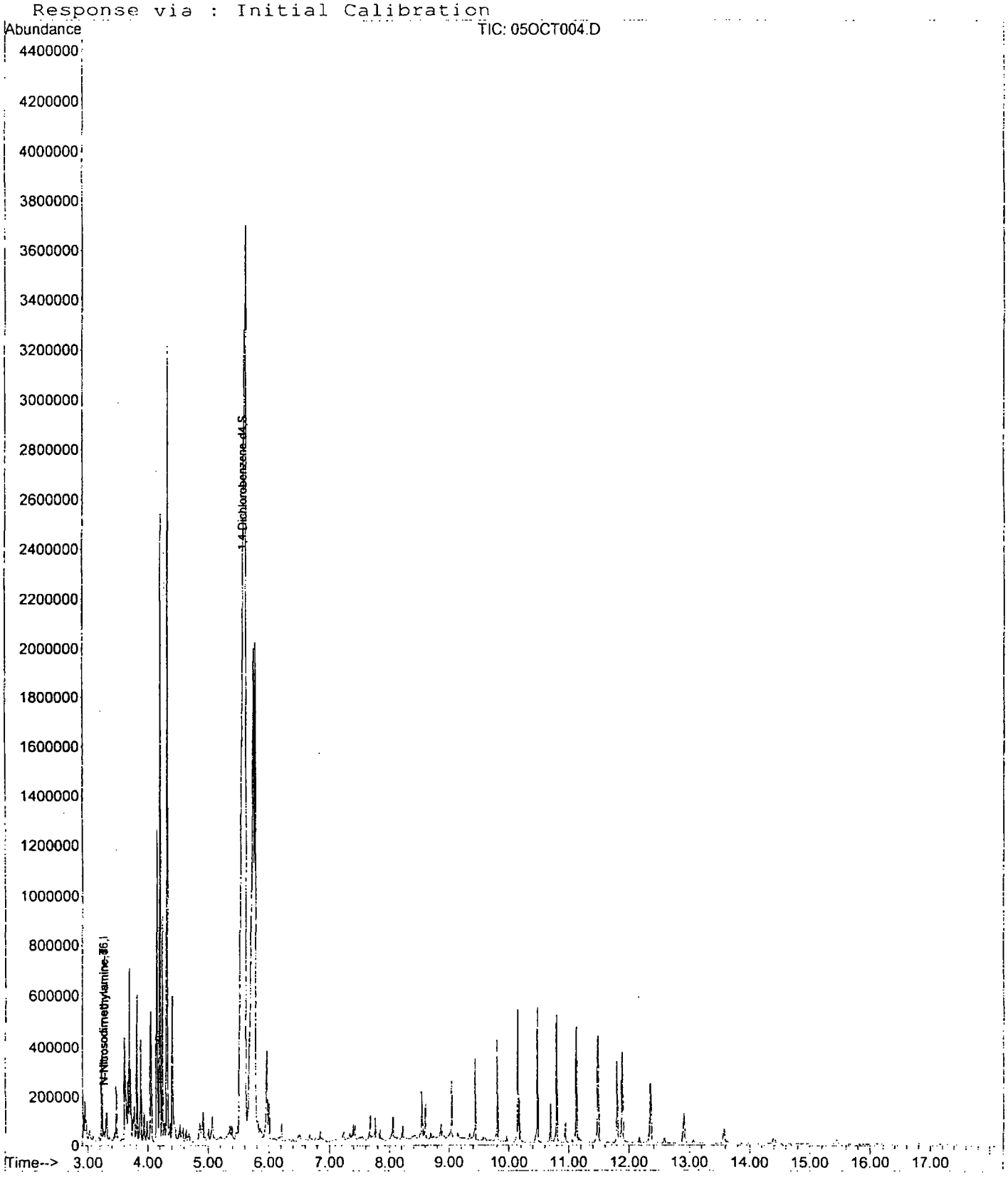
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) N-Nitrosodimethylamine-d6	3.25	80	2719	20.00 ug/l	-0.03
System Monitoring Compounds					
3) 1,4-Dichlorobenzene-d4	5.55	150	4925	11.79 ug/l	0.00
Spiked Amount 20.000			Recovery =	58.95%	
Target Compounds					Qvalue
2) N-Nitrosodimethylamine	3.26	74	3095	19.09 ug/l #	1

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\061005\05OCT004.D Vial: 4
Acq On : 5 Oct 2006 1:17 pm Operator:
Sample : NDMA LCSD 061003-L02 Inst : GCMS_H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 5 14:38 2006 Quant Results File: NDMA060921.RES

Method : C:\MSDCHEM\1\METHODS\NDMA060921.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Sep 22 17:10:12 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\061005\05OCT007.D Vial: 7
Acq On : 5 Oct 2006 2:39 pm Operator:
Sample : 09-1679-2 MS Inst : GCMS_H
Misc : Multiplr: 1.00
Integration Params: rteint.p
Quant Time: Oct 06 08:10:00 2006 Quant Results File: NDMA060921.RES

Quant Method : C:\MSDCHEM\1\METHODS\NDMA060921.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Sep 22 17:10:12 2006
Response via : Initial Calibration
DataAcq Meth : NDMASIM3

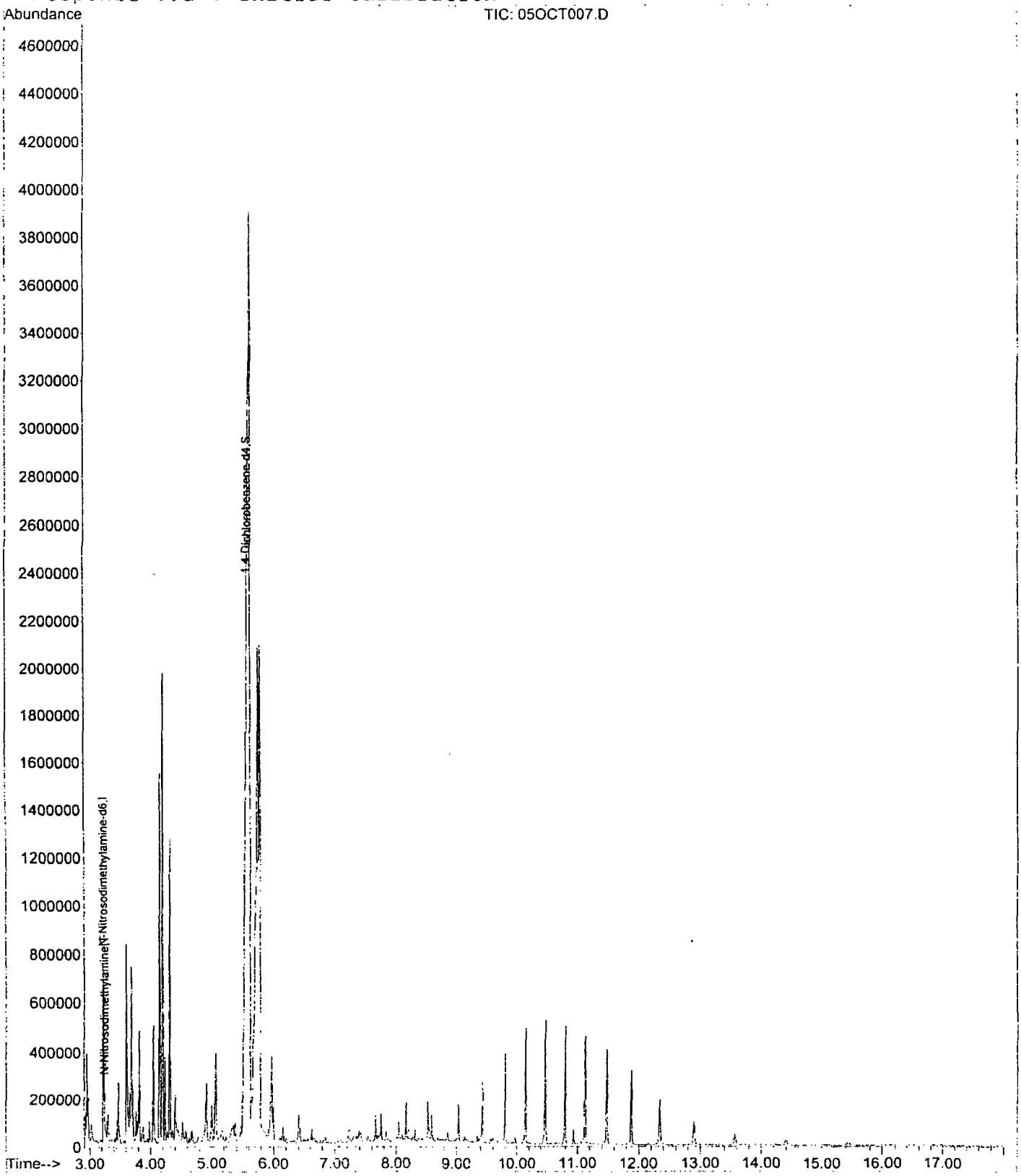
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) N-Nitrosodimethylamine-d6	3.24	80	3405	20.00 ug/l	-0.04
System Monitoring Compounds					
3) 1,4-Dichlorobenzene-d4	5.55	150	5162	9.87 ug/l	0.00
Spiked Amount 20.000			Recovery	= 49.35%	
Target Compounds					Qvalue
2) N-Nitrosodimethylamine	3.26	74	2679	13.20 ug/l #	38

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\061005\05OCT007.D Vial: 7
Acq On : 5 Oct 2006 2:39 pm Operator:
Sample : 09-1679-2 MS Inst : GCMS_H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 6 8:10 2006 Quant Results File: NDMA060921.R

Method : C:\MSDCHEM\1\METHODS\NDMA060921.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Sep 22 17:10:12 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\061005\05OCT008.D Vial: 8
Acq On : 5 Oct 2006 3:05 pm Operator:
Sample : 09-1679-2 MSD Inst : GCMS_H
Misc : Multiplr: 1.00
Integration Params: rteint.p
Quant Time: Oct 06 08:10:11 2006 Quant Results File: NDMA060921.RES

Quant Method : C:\MSDCHEM\1\METHODS\NDMA060921.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Sep 22 17:10:12 2006
Response via : Initial Calibration
DataAcq Meth : NDMASIM3

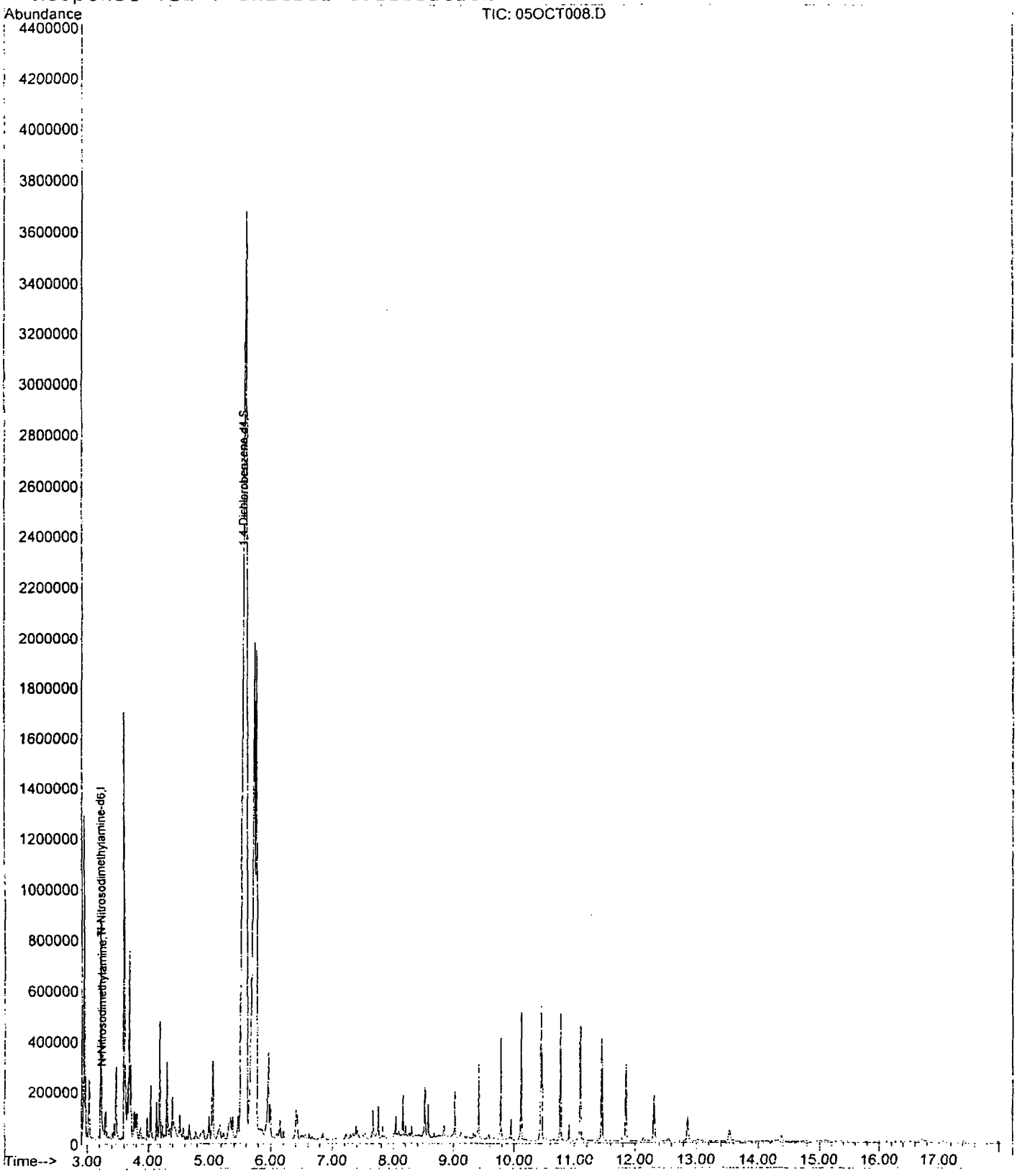
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) N-Nitrosodimethylamine-d6	3.24	80	3580	20.00 ug/l	-0.04
System Monitoring Compounds					
3) 1,4-Dichlorobenzene-d4	5.55	150	5216	9.49 ug/l	0.00
Spiked Amount 20.000			Recovery = 47.45%		
Target Compounds					Qvalue
2) N-Nitrosodimethylamine	3.25	74	2512	11.77 ug/l #	60

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\061005\05OCT008.D Vial: 8
Acq On : 5 Oct 2006 3:05 pm Operator:
Sample : 09-1679-2 MSD Inst : GCMS_H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 6 8:10 2006 Quant Results File: NDMA060921.R

Method : C:\MSDCHEM\1\METHODS\NDMA060921.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Sep 22 17:10:12 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\061005\05OCT017.D Vial: 17
Acq On : 5 Oct 2006 7:09 pm Operator:
Sample : 09-1593-2 Inst : GCMS_H
Misc : Multiplr: 1.00
Integration Params: rteint.p
Quant Time: Oct 06 08:14:14 2006 Quant Results File: NDMA060921.RES

Quant Method : C:\MSDCHEM\1\METHODS\NDMA060921.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Sep 22 17:10:12 2006
Response via : Initial Calibration
DataAcq Meth : NDMASIM3

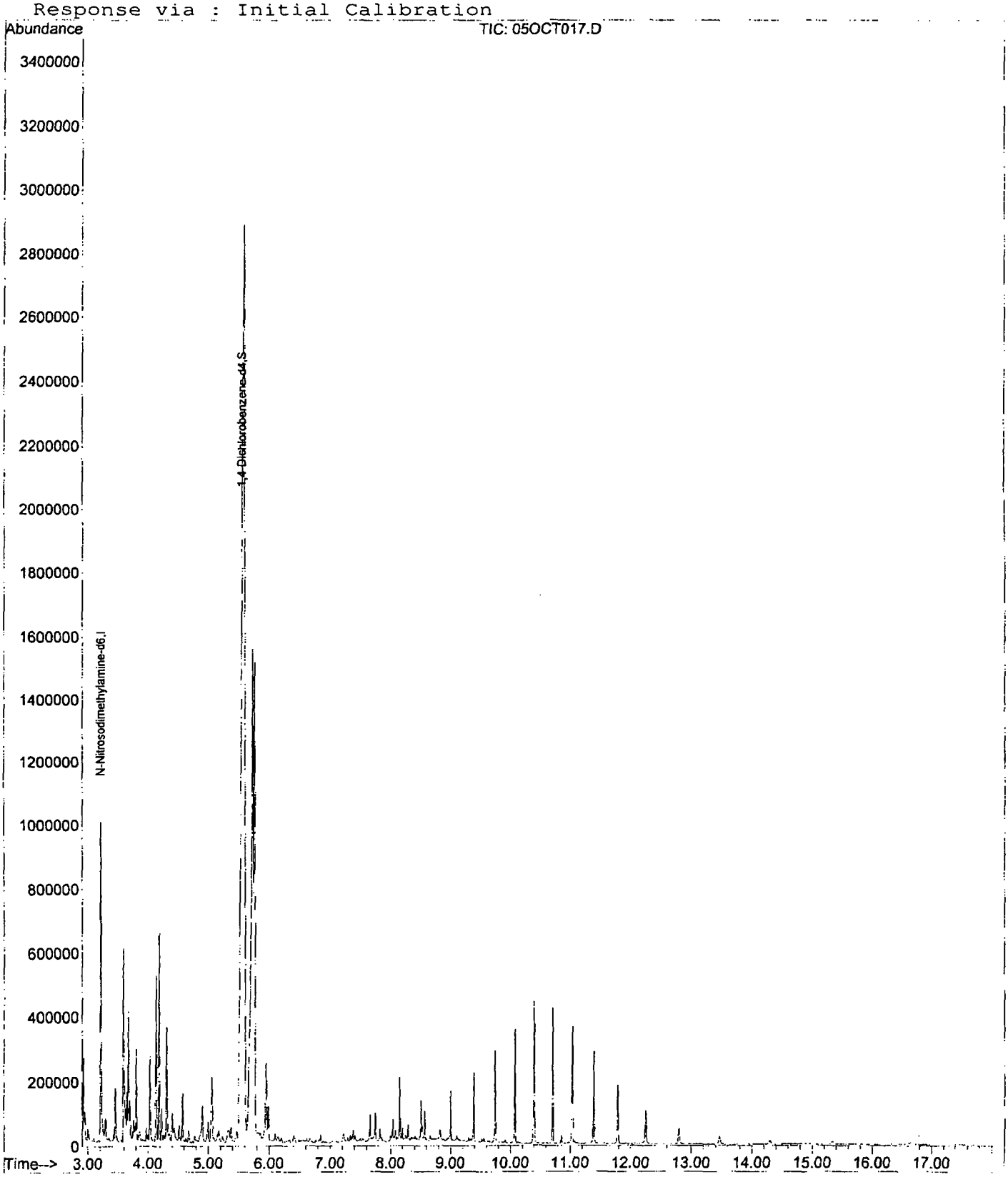
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) N-Nitrosodimethylamine-d6	3.22	80	2708	20.00	ug/l	-0.06
System Monitoring Compounds						
3) 1,4-Dichlorobenzene-d4	5.55	150	4232	10.18	ug/l	0.00
Spiked Amount 20.000			Recovery = 50.90%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	0.00	74	0	N.D.		d

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\061005\05OCT017.D Vial: 17
Acq On : 5 Oct 2006 7:09 pm Operator:
Sample : 09-1593-2 Inst : GCMS_H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 6 8:14 2006 Quant Results File: NDMA060921.

Method : C:\MSDCHEM\1\METHODS\NDMA060921.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Sep 22 17:10:12 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\061005\05OCT018.D Vial: 18
Acq On : 5 Oct 2006 7:37 pm Operator:
Sample : 09-1593-3 Inst : GCMS_H
Misc : Multiplr: 1.00
Integration Params: rteint.p
Quant Time: Oct 06 08:14:33 2006 Quant Results File: NDMA060921.RES

Quant Method : C:\MSDCHEM\1\METHODS\NDMA060921.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Sep 22 17:10:12 2006
Response via : Initial Calibration
DataAcq Meth : NDMASIM3

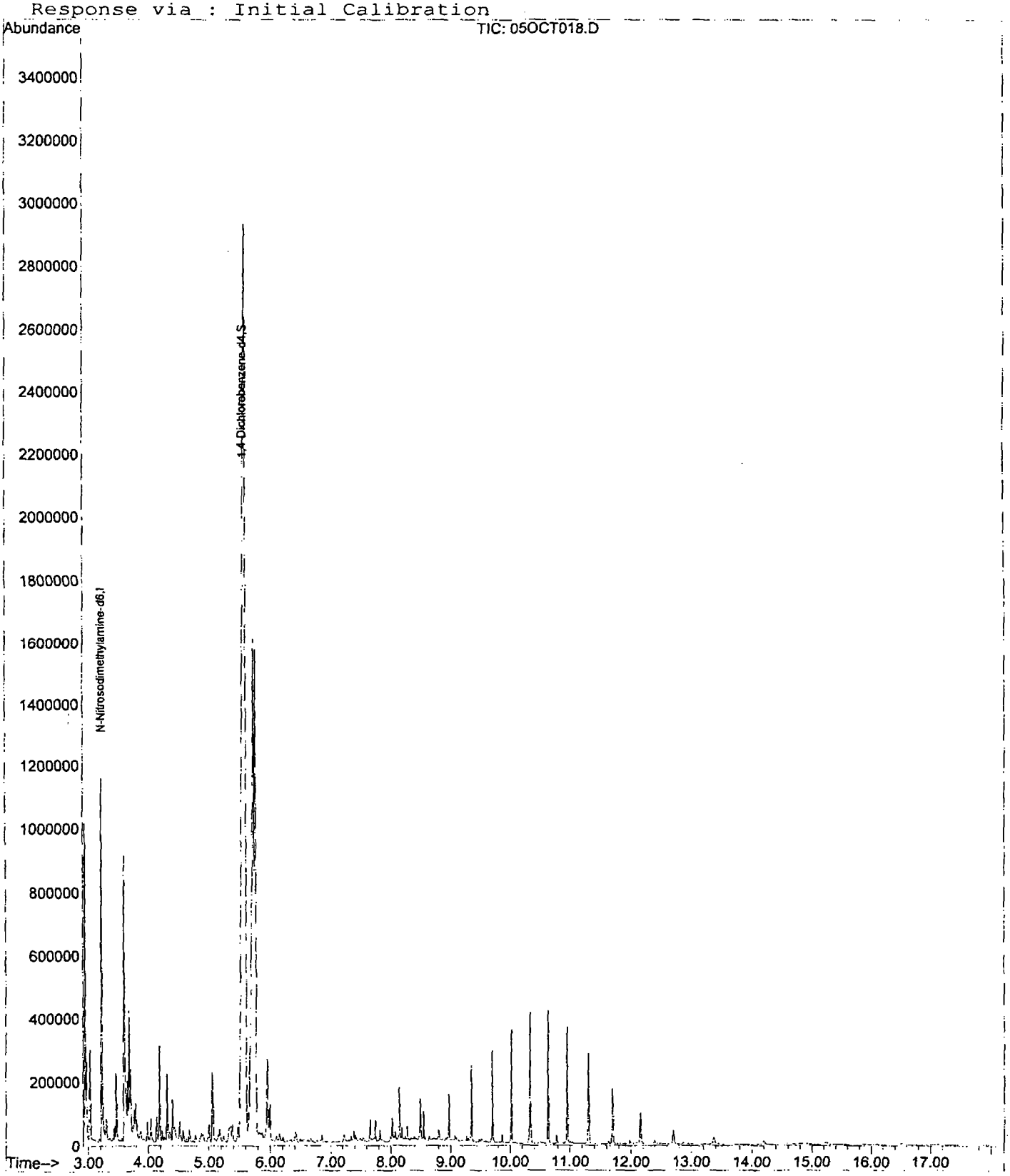
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) N-Nitrosodimethylamine-d6	3.23	80	2369m	20.00 ug/l	-0.05
System Monitoring Compounds					
3) 1,4-Dichlorobenzene-d4	5.56	150	3833	10.54 ug/l	0.00
Spiked Amount 20.000			Recovery	= 52.70%	
Target Compounds					Qvalue
2) N-Nitrosodimethylamine	0.00	74	0	N.D.	d

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\061005\05OCT018.D Vial: 18
Acq On : 5 Oct 2006 7:37 pm Operator:
Sample : 09-1593-3 Inst : GCMS_H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 6 8:15 2006 Quant Results File: NDMA060921.R

Method : C:\MSDCHEM\1\METHODS\NDMA060921.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Sep 22 17:10:12 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\061005\05OCT020.D Vial: 20
Acq On : 5 Oct 2006 8:31 pm Operator:
Sample : 09-1593-5 Inst : GCMS_H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 06 08:16:37 2006 Quant Results File: NDMA060921.RES

Quant Method : C:\MSDCHEM\1\METHODS\NDMA060921.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Sep 22 17:10:12 2006
Response via : Initial Calibration
DataAcq Meth : NDMASIM3

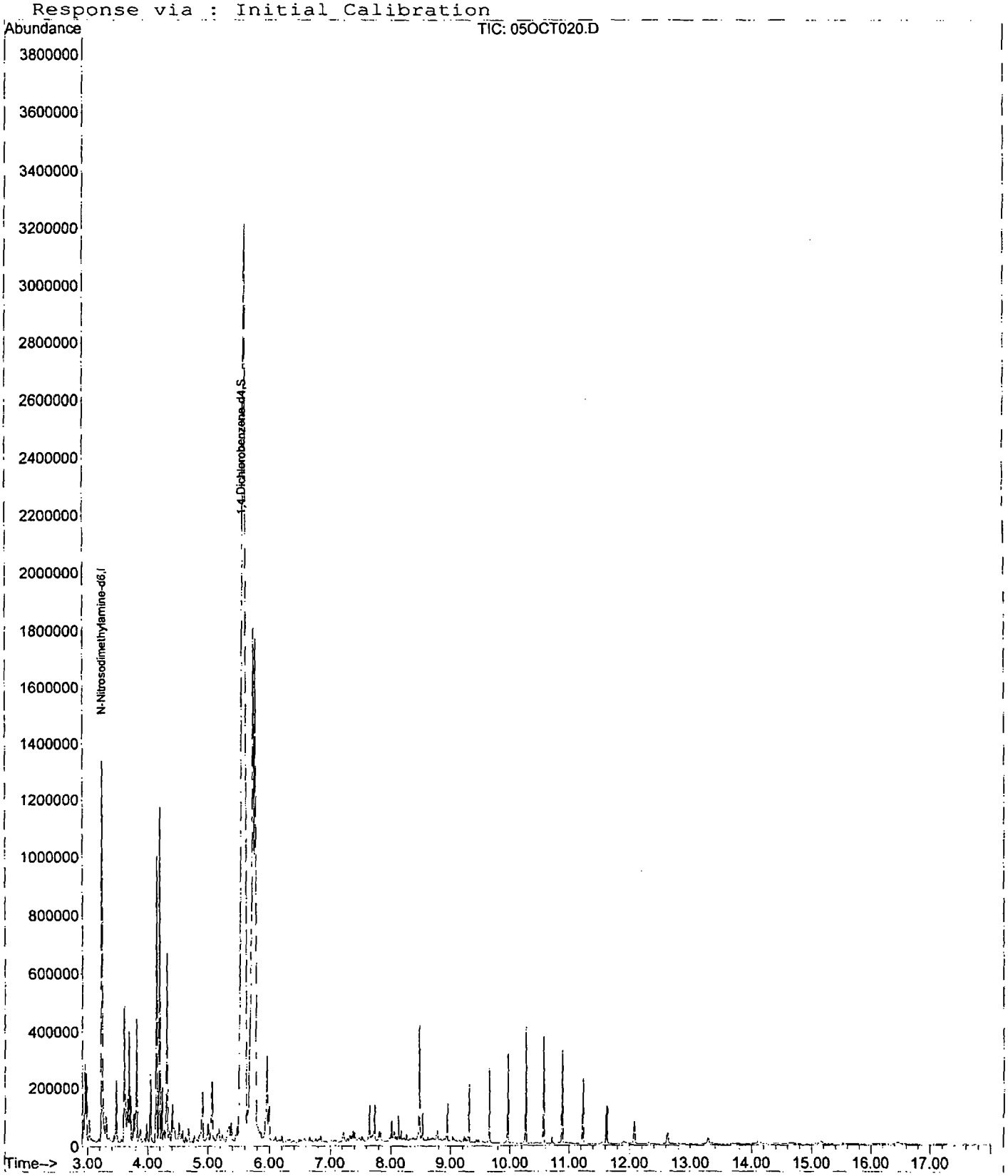
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) N-Nitrosodimethylamine-d6	3.23	80	2484m	20.00	ug/l	-0.05
System Monitoring Compounds						
3) 1,4-Dichlorobenzene-d4	5.55	150	3916	10.26	ug/l	0.00
Spiked Amount 20.000			Recovery	=	51.30%	
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	0.00	74	0	N.D.	d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\061005\05OCT020.D Vial: 20
Acq On : 5 Oct 2006 8:31 pm Operator:
Sample : 09-1593-5 Inst : GCMS_H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 6 8:16 2006 Quant Results File: NDMA060921.

Method : C:\MSDCHEM\1\METHODS\NDMA060921.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Sep 22 17:10:12 2006
Response via : Initial Calibration



Injection Log

Directory: C:\MSDCHEM\1\DATA\061006

Inj	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	06OCT002.D	1.	NDMA 20PPB S061606G		6 Oct 2006 09:34
2	23	06OCT004.D	1.	09-1427-4		6 Oct 2006 10:28
3	19	06OCT005.D	1.	09-1593-4		6 Oct 2006 14:36

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\061006\06OCT002.D Vial: 1
Acq On : 6 Oct 2006 9:34 am Operator:
Sample : NDMA 20PPB S061606G Inst : GCMS_H
Misc : Multipli: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 06 09:56:49 2006 Quant Results File: NDMA060921.RES

Quant Method : C:\MSDCHEM\1\METHODS\NDMA060921.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Sep 22 17:10:12 2006
Response via : Initial Calibration
DataAcq Meth : NDMASIM3

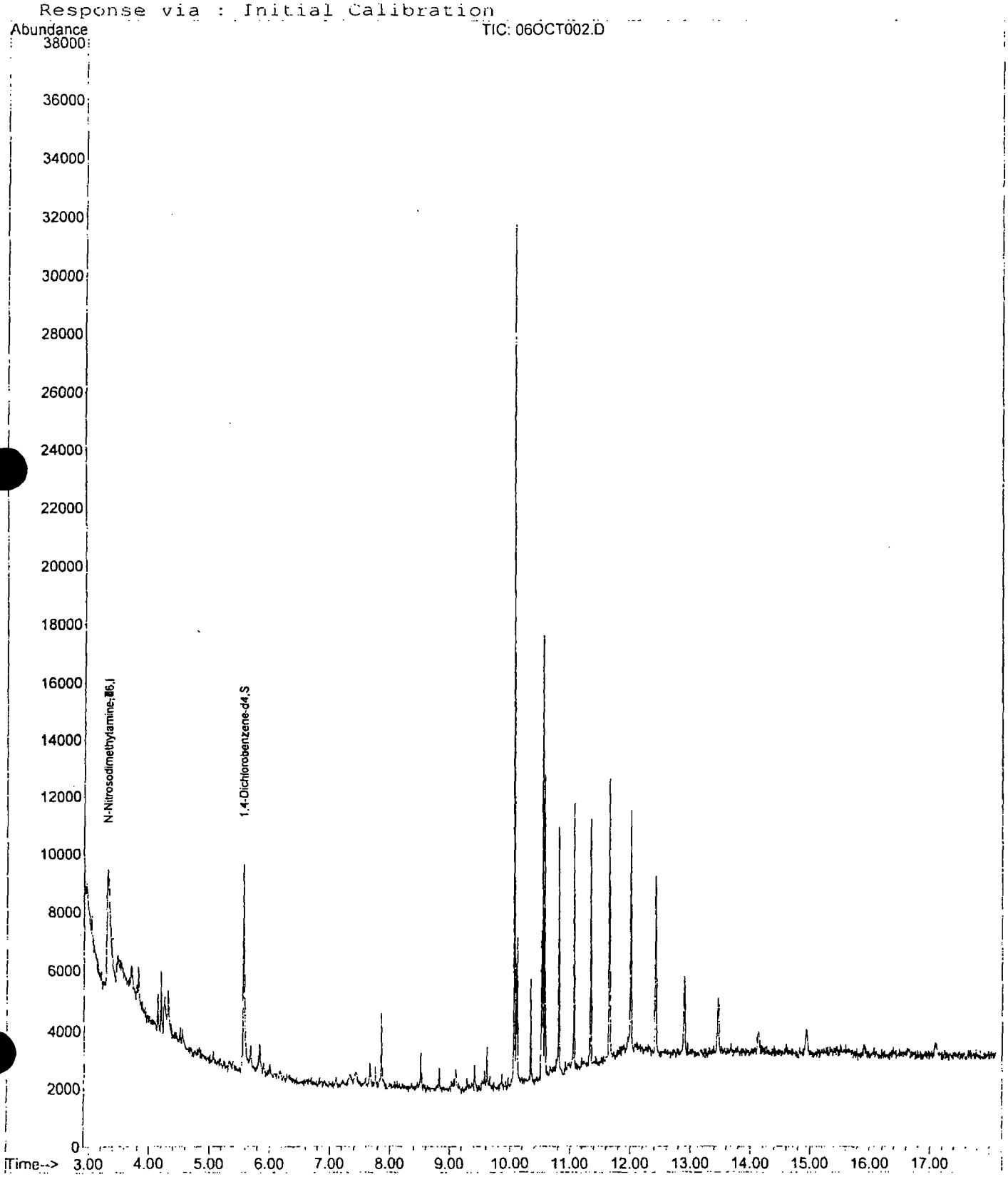
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) N-Nitrosodimethylamine-d6	3.30	80	2215m	20.00 ug/l	0.02
System Monitoring Compounds					
3) 1,4-Dichlorobenzene-d4	5.55	150	5851m	17.20 ug/l	0.00
Spiked Amount 20.000			Recovery	= 86.00%	
Target Compounds					Qvalue
2) N-Nitrosodimethylamine	3.32	74	3117	23.61 ug/l #	56

(#) = qualifier out of range (m) = manual integration
06OCT002.D NDMA060921.M Mon Oct 09 15:32:37 2006

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\061006\06OCT002.D Vial: 1
Acq On : 6 Oct 2006 9:34 am Operator:
Sample : NDMA 20PPB S061606G Inst : GCMS_h
Misc : Multiplier: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 6 9:58 2006 Quant Results File: NDMA060921.RES

Method : C:\MSDCHEM\1\METHODS\NDMA060921.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Sep 22 17:10:12 2006
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\061006\06OCT002.D Vial: 1
Acq On : 6 Oct 2006 9:34 am Operator:
Sample : NDMA 20PPB S061606G Inst : GCMS_II
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\NDMA060921.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Sep 22 17:10:12 2006
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	N-Nitrosodimethylamine-d6	1.000	1.000	0.0	61	0.02
2	T	N-Nitrosodimethylamine	1.192	1.407	-18.0	68	0.02
3	S	1,4-Dichlorobenzene-d4	3.072	2.642	14.0	50	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\061006\06OCT005.D Vial: 19
Acq On : 6 Oct 2006 2:36 pm Operator:
Sample : 09-1593-4 Inst : GCMS_H
Misc : Multiplr: 1.00
Integration Params: rteint.p
Quant Time: Oct 09 15:32:50 2006 Quant Results File: NDMA060921.RES

Quant Method : C:\MSDCHEM\1\METHODS\NDMA060921.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Sep 22 17:10:12 2006
Response via : Initial Calibration
DataAcq Meth : NDMASIM3

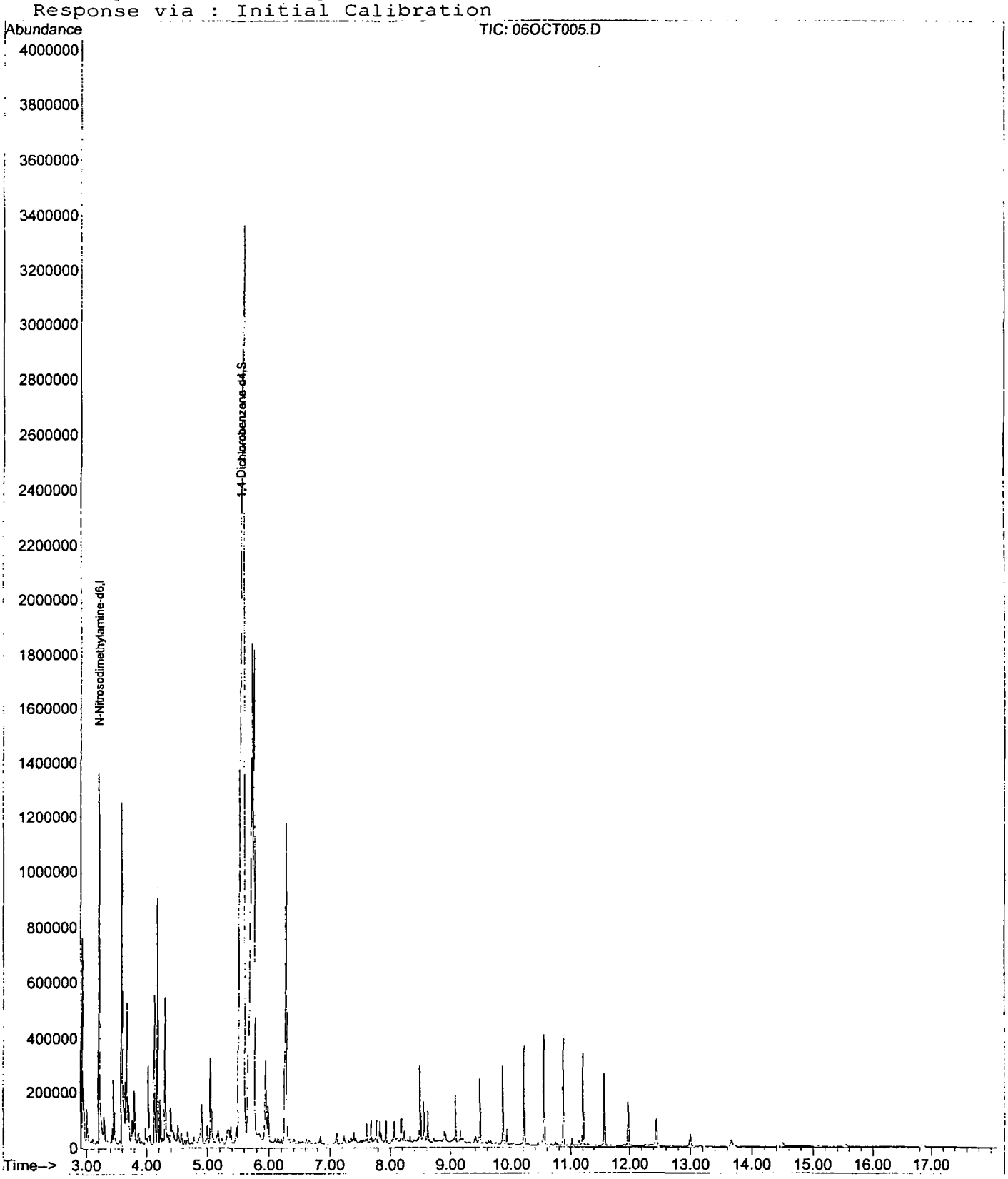
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) N-Nitrosodimethylamine-d6	3.23	80	3007m	20.00 ug/l	-0.06
System Monitoring Compounds					
3) 1,4-Dichlorobenzene-d4	5.55	150	4689	10.15 ug/l	0.00
Spiked Amount 20.000			Recovery	= 50.75%	
Target Compounds					Qvalue
2) N-Nitrosodimethylamine	0.00	74	0	N.D. d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\061006\06OCT005.D Vial: 19
Acq On : 6 Oct 2006 2:36 pm Operator:
Sample : 09-1593-4 Inst : GCMS_H
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 9 15:35 2006 Quant Results File: NDMA060921.

Method : C:\MSDCHEM\1\METHODS\NDMA060921.M (RTE Integrator)
Title : CLP BNA Calibration
Last Update : Fri Sep 22 17:10:12 2006
Response via : Initial Calibration



APPENDIX C

QUALITY ASSURANCE/QUALITY CONTROL SUMMARY