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FINAL QUARTERLY GROUNDWATER MONITORING REPORT FOR SITE 11 APRIL - JUNE 2003 NSB KINGS BAY GA

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J A JONES MANAGEMENT SERVICES

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QUARTERLY GROUNDWATER MONITORING REPORT
APRIL 2003 – JUNE 2003

FINAL

SITE 11, OLD CAMDEN COUNTY LANDFILL
NAVAL SUBMARINE BASE KINGS BAY, GEORGIA

Contract No. N69272-00-D-3170

Prepared for:

NAVAL SUBMARINE BASE
KINGS BAY, GEORGIA
PUBLIC WORKS DIRECTORATE

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July 2003

The work described and professional opinions rendered in this document, *Quarterly Groundwater Monitoring Report, April 2003 – June 2003, Site 11, Old Camden County Landfill, Naval Submarine Base Kings Bay, Georgia* were conducted and developed using commonly accepted procedures consistent with applicable standards of practice. The scope of services and activities described in this document were developed under the supervision of a professional engineer registered in the State of Georgia.

7/23/03

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Professional Engineer
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Expires December 31, 2004

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A WELL PURGING AND SAMPLING RECORDS
B ANALYTICAL REPORTS

ACRONYMS

JAJMS	J.A. Jones Management Services
Bechtel	Bechtel Environmental, Inc.
1,1-DCA	1,1-dichloroethane
1,2-DCE	cis-1,2-dichloroethene
FID	flame ionization detector
GDNR	Georgia Department of Natural Resources
GEPD Rules	Rules of Georgia Department of Natural Resources Environmental Protection Division
GWMP	Groundwater Monitoring Plan
GWPS	Groundwater Protection Standard
NSB	Naval Submarine Base
MCL	Maximum Contaminant Level
PCE	Tetrachloroethene
PID	photoionization detector
TCE	Trichloroethene

UNITS OF MEASURE

ft	Foot
gal	Gallon
ID	inner diameter
in.	Inch
MSL	mean sea level
OD	outer diameter
ug/L	micrograms per liter
mg/L	milligrams per liter
Pg/L	picograms per liter
Ppm	parts per million

1.0 INTRODUCTION

J.A. Jones Management Services (JAJMS) has been contracted by the Department of the Navy, Engineering Field Activity Southeast, Resident Officer in Charge of Construction, Kings Bay, Kings Bay, Georgia to provide operating support services as the Base Operating Support Contractor. Under the Prime Contract N69272-00-D-3170, JAJMS has been contracted to provide groundwater monitoring services at Site 11, Old Camden County Landfill at the Naval Submarine Base (NSB) Kings Bay in accordance with the approved Groundwater Monitoring Plan (GWMP; Bechtel, 1999). This Quarterly Groundwater Monitoring Report provides:

- A summary of the quarterly/annual monitoring activities that were performed from April to June 2003;
- A presentation of the data from the activities performed;
- An assessment of the current and historical data;
- Recommendations for future activities based upon the data assessment; and
- A summary of the activities planned for the period of July to September 2003.

2.0 SUMMARY OF ACTIVITIES

One quarterly/annual groundwater sampling event was performed by JAJMS during the period, from May 6 to 7, 2003. Activities included well inspections, well measurements, and groundwater sampling and analysis.

Weather conditions during the groundwater sampling event were hot and dry with temperatures from the low 70's in the morning to the low 90's in the afternoon. There was no significant rainfall during the week preceding the groundwater sampling event. For the month of April 2003, a total of 2.33 inches of rainfall occurred. A site map is provided as Figure 1.

2.1 WELL INSPECTIONS

All wells were inspected for aboveground damage or well deterioration. Generally, all wells were structurally sound with no aboveground damage. It has been recommended by JAJMS that KBA-11-02 be redeveloped because the measured depth of the well has decreased since its construction; however, the depth has stabilized over the past year.

Per the direction of the Navy, with approval by the Georgia Department of Natural Resources (GDNR), recovery wells RW-6, RW-7, and RW-8 were abandoned on October 30, 2001. The work was performed under Delivery Order 640 of JAJMS Prime Contract N69272-00-D-3170, by a licensed driller in accordance with the Georgia Water Well Standards Act.

Per the direction of the Navy, with approval by the Georgia Department of Natural Resources (GDNR), the shallow irrigation well located at 122 Plantation Court was abandoned on March 21, 2003. A deeper irrigation well was installed at this location from March 20-21, 2003. The work was performed by Woodrow Sapp Water Well Contractor, Inc under Prime Contract N69272-02-M-3015 (contracted directly with the Navy). The actions performed at 122 Plantation Court will be the subject of a separate report.

2.2 WELL MEASUREMENTS

Well measurements, including organic vapor headspace, depth to water, and the total depth, were recorded on May 5, 2003. Headspace readings were recorded from inside in the monitoring well casing immediately after removing the cap using a Photovac model 2020 PID organic vapor meter. The highest PID response was recorded for each monitoring well. Water levels and well depth measurements were performed during the sampling event using an electronic water level indicator, accurate to 0.01 feet. All water level measurements were recorded with respect to a surveyed reference point located at the top of the well casing. Measurements were recorded two to three times over an eight-hour period and stabilization of static water level was assumed when two consecutive readings recorded at least one hour apart were within 0.01 feet. The total well depth was measured using the electronic water level indicator by lowering the probe until the bottom of the well was reached. Total depth measurements were made with respect to a surveyed reference point located at the top of the well casing. Barometric pressure, relative humidity and ambient air temperatures were measured using portable field instruments. Monitoring well measurements were obtained prior to sampling to avoid interference by purging activities.

2.3 GROUNDWATER SAMPLING AND ANALYSES

2.3.1 Monitoring Well Sampling

Currently a total of six monitoring wells are sampled on an annual basis and five monitoring wells are sampled on a quarterly basis at Site 11. A quarterly sampling event was conducted at Site 11 during the period of May 6 to 7, 2003. In addition to the quarterly samples, samples were also collected from monitoring wells KBA-11-11A and KBA-11-13A for the annual Appendix IX analyses. This portion of the annual monitoring was moved up from August to May to avoid heat stress on sampling personnel. Groundwater samples were generally collected from monitoring wells in order of least contaminated to most contaminated, based upon historical data. Prior to sampling, all monitoring wells were purged using the low-flow (minimal draw down) method. Prior to purging, the intake of a dedicated piece of Teflon™ tubing (3/16-in. OD by ¼-in. ID) was positioned near the center of the monitoring well screen. Groundwater was then purged through the tube using a peristaltic pump, Geotech Model Geopump 2. Water quality parameters, including temperature, pH, conductivity, oxygen-reduction potential, turbidity, and dissolved oxygen were measured every two gallons while purging. After parameters stabilized within 10 percent, a sample was collected and containerized for chemical analysis. Samples for volatile constituents were collected by stopping the pump, removing the tubing from the monitoring well, reversing the flow of the pump, and gently filling the container. Samples for non-volatile analyses were taken directly from the effluent of the peristaltic pump. All samples were submitted to Columbia Analytical Services for analyses using standard chain-of-custody procedures as specified in the GWMP. All purge water was containerized in drums and properly disposed.

2.3.2 Monitoring Well Analyses

2.3.2.1 Quarterly Analyses

Groundwater samples collected from monitoring wells, PS-2, KBA-11-13A, KBA-11-16, KBA-11-34, KBA-11-37, were analyzed by Columbia Analytical Services for Groundwater Protection Standards (GWPS) compounds by EPA Method 8260B.

2.3.2.2 Annual (Appendix IX) Analyses

Groundwater samples collected from KBA-11-11A and KBA-11-13A were analyzed for 40 CFR Part 264, Appendix IX compounds by various EPA methods as noted in Appendix B. A total of one each EPA Method 8260 analysis for volatile organic constituents was performed for both the GWPS and

Appendix IX compounds for monitoring wells KBA-11-11A and KBA-11-13A. This portion of the annual monitoring was moved up from August to May to avoid heat stress on sampling personnel. The remainder of the annual monitoring will be performed in August per the original schedule.

2.3.3 Irrigation Well Sampling and Analyses

Currently a total of two irrigation wells in the Crooked River Plantation subdivision, located at 102 Plantation Court and 122 Plantation Court (replacement well), across the highway from the Kings Bay Naval Submarine Base, are sampled on a monthly basis. One irrigation well, located at 108 Cottage Court (also in the Crooked River Plantation subdivision), is being sampled on an annual basis per GEPD approval letter dated June 14, 2002. The irrigation well sampling sites are not specified in the GWMP and have been selected for sampling based upon the results from a comprehensive irrigation well survey that was performed in 1998. Irrigation wells located at 102 Plantation Court and 122 Plantation Court (replacement well) were sampled on April 29 and June 17, 2003. Samples for May 2003 at 102 Plantation Court and 122 Plantation Court were unable to be obtained despite several attempts, due to access difficulties. Prior to sampling, all of the irrigation wells were purged by activating the irrigation pump and allowing the spicket to discharge for approximately 5 minutes. Sample containers were then filled directly from the spicket. All of the irrigation well samples were analyzed by Columbia Analytical Services for GWPS compounds by EPA Method 8260B.

3.0 DATA PRESENTATION

This section provides a summation and tabulation of all field measurements and analytical results associated with the groundwater monitoring program.

3.1 HEADSPACE READINGS

Headspace readings were measured at 19 monitoring wells as described in Section 2.2, using a Photovac model 2020 PID organic vapor meter which was calibrated in accordance with manufacturer's specifications prior to use. Headspace readings are provided in Table 1 and are summarized below:

- A total of 11 monitoring wells exhibited no response on the PID;
- The average PID response for all 19 monitoring wells analyzed was 4.9 parts per million (ppm);
- The range of PID responses was 0 to 21.1 ppm (KBA-11-16)

3.2 MONITORING WELL MEASUREMENTS

Depth to water and depth to monitoring well bottom were measured at 19 monitoring wells as described in Section 2.2, using an electronic water level indicator. Based upon the data, ground water flow in the intermediate zone appears to be generally west to northwest. A summary of the data recorded during the monitoring well measurement evolution is provided in Table 2.

3.3 MONITORING WELL PURGING PARAMETERS

Water quality parameters temperature, pH, conductivity, dissolved oxygen, turbidity and oxygen reduction potential were measured at each sampling location every two gallons during purging activities using a Horiba U-22 water quality meter, which was calibrated in accordance with manufacturer's specifications prior to use. Parameters generally stabilized within ten percent after six to eight gallons of groundwater were purged from the monitoring well. Table 3 provides a summary of the stabilized parameters at the time of sample collection.

A summary of the monitoring well purging and sampling records for the May 2003 sampling event is included in Appendix A.

3.4 ANALYTICAL RESULTS

A total of six monitoring wells and two irrigation wells were sampled and analyzed during the quarter as described in Section 2.3. A summary of the analytical laboratory results is provided in Tables 4 and 5. Analytical laboratory reports are provided in Appendix B.

3.4.1 Analytical Results from Monitoring Well Samples

3.4.1.1 Groundwater Protection Standard Analytical Results

Of the six monitoring wells that were sampled for GWPS compounds, monitoring wells KBA-11-13A, KBA-11-16, KBA-11-34, KBA-11-37 and PS-2 exhibited concentrations that exceeded one or more of the GWPS constituent standards. The results are summarized below:

- Monitoring well KBA-11-13A, located approximately 150 feet downgradient from the source area, exhibited elevated concentrations of tetrachloroethene (PCE) at 45 micrograms per liter (ug/l; in duplicate sample) and trichloroethene (TCE; 22 ug/l).
- Monitoring well KBA-11-16, located approximately 500 feet downgradient from the source area, exhibited elevated concentrations of 1,1-dichloroethane (1,1-DCA; 37 ug/l).
- Monitoring well KBA-11-34, located within the source area, exhibited elevated concentrations of PCE (58 ug/l) and TCE (6.2 ug/l).
- Monitoring well KBA-11-37, located approximately 600 feet downgradient from the source area, exhibited elevated concentrations of chlorobenzene (6.2 ug/l).
- Monitoring well PS-2, located approximately 400 feet crossgradient from the source area, exhibited elevated concentrations of cis-1,2-dichloroethene (1,2-DCE; 140 ug/l), 1,1-DCA (2.5 ug/l), vinyl chloride (4.3 ug/l), and chlorobenzene (1.6 ug/l).

The analytical results are presented in Table 4. Laboratory analytical reports are provided in Appendix B.

3.4.1.2 Appendix IX Analytical Results

Monitoring well KBA-11-13A and/or its duplicate sample exhibited concentrations of the following Appendix IX constituents at concentration that were greater than those found in background monitoring well KBA-11-11A: TCE (22 ug/L); chlorobenzene (1.0 ug/L); ethylbenzene (2.9 ug/L); trans-1,2-dichloroethene (1.8 ug/L); toluene (0.40 ug/L; estimated value); cis-1,2-DCE (60 ug/L); 1,4-dichlorobenzene (1.0 ug/L); PCE (45 ug/L); carbon disulfide (16 ug/L); naphthalene (9.4 ug/L; estimated value); barium (38 ug/L); beryllium (1.78 ug/L; possible blank contamination); cobalt (29.1 ug/L); nickel (82.2 ug/L); vanadium (4.390 ug/L; possible blank contamination); antimony (0.085 ug/L; possible blank contamination); arsenic (0.776 ug/L); chromium (5.130 ug/L); selenium (1.020 ug/L; possible blank contamination); tin (0.203 ug/L; possible blank contamination); and zinc (120 ug/L).

Background monitoring well KBA-11-11A exhibited detectable concentrations of the following Appendix IX constituents: barium (7.28 ug/L); chromium (0.755 ug/L; possible blank contamination); copper (0.742 ug/L; possible blank contamination); and nickel (0.295 ug/L; possible blank contamination); tin (0.128 ug/L; possible blank contamination).

The analytical results are presented in Table 5. Laboratory analytical reports are provided in Appendix B.

3.4.2 Analytical Results from Subdivision Irrigation Well Samples

A total of two irrigation wells in the Crooked River Plantation subdivision, located across the highway from the Kings Bay Naval Submarine Base, were sampled twice during the period. These locations are not included in the GWMP and were selected for sampling based upon the results from a comprehensive irrigation well survey that was performed in 1998. Irrigation wells located at 102 Plantation Court and 122 Plantation Court (replacement well) were sampled on April 29 and June 17, 2003. Neither well exhibited detectable concentrations of GWPS constituents during the April or June sampling events.

The analytical results are presented in Table 6. Laboratory analytical reports are not included with this document but are on file at Kings Bay Naval Submarine Base and can be provided upon request.

3.5 QUANTITY OF HYDROCARBONS REMOVED

Per the direction of the Navy, with approval by the GDNR, the pump-and-treat remediation system at Site 11 was dismantled during November 2001 under Delivery Order 651 of JAJMS Prime Contract N69272-00-D-3170. For this reason, the quantity of hydrocarbons removed calculation no longer applies.

4.0 DATA ASSESSMENT

The following observations were notable based on the data from this quarterly monitoring event:

- With the exception of KBA-11-02, which may require redevelopment, all of the monitoring wells are in good condition and are functioning adequately for evaluating the hydrologic conditions and groundwater quality.
- No significant increases or decreases in contaminant concentrations were noted in any of the monitoring or irrigation wells compared to the data from last quarter.
- Crossgradient monitoring well PS-2 is showing an upward trend in cis-1,2-DCE concentrations.
- Downgradient monitoring well KBA-11-13A is showing an upward trend in PCE concentrations.
- The irrigation well located at 102 Plantation Court exhibited non-detectable concentrations of all GWPS constituents for the fifteenth consecutive monthly sampling event, and exhibited no concentrations above GWPS concentrations for the nineteenth consecutive monthly sampling event. It has been previously recommended that sampling frequency at this location be reduced to annually.
- The irrigation well located at 122 Plantation Court (or its replacement well) exhibited non-detectable concentrations of all GWPS constituents for the third consecutive monthly sampling event, and exhibited no concentrations above GWPS concentrations for the fourth consecutive monthly sampling event.

5.0 PROJECTED WORK FOR THE NEXT REPORTING PERIOD

JAJMS will continue quarterly monitoring in accordance with the GWMP and all approved modifications. The next quarterly monitoring event is scheduled for August 2003.

6.0 REFERENCES

Bechtel Environmental, Inc., June 1999. *Groundwater Monitoring Plan for Site 11, Old Camden County Landfill, U.S. Naval Submarine Base, Kings Bay, Georgia.*

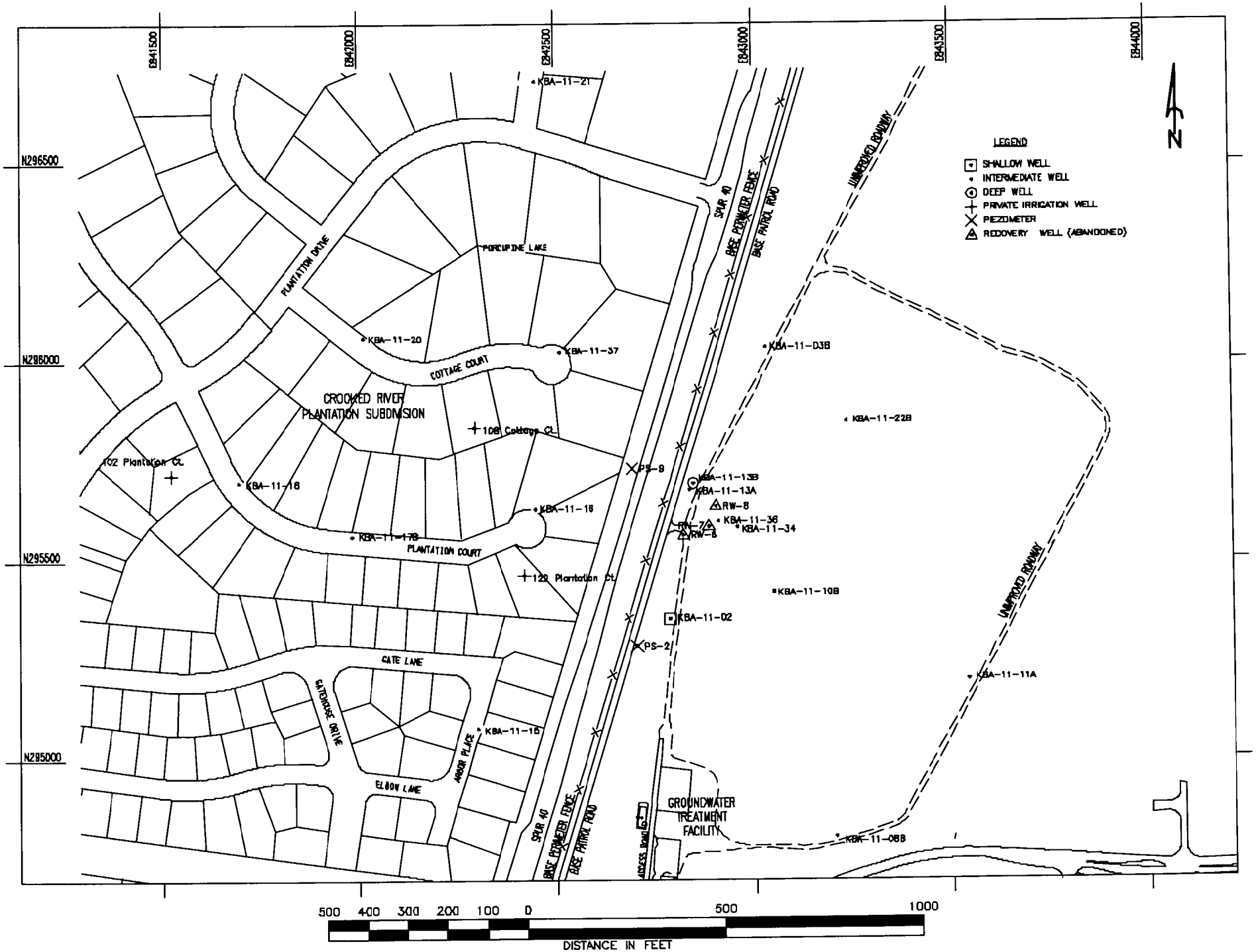

FIGURE 1: Site 11, Site Map

Table 1
Headspace Readings

Well Identification	Date	PID Measurement (ppm)	Barometer Pressure (Inches of Hg)	Temperature (F°)
KBA-11-02	11/8/1999	0.7	NM	NM
	2/1/2000	0.1	NM	NM
	5/2/2000	0	NM	NM
	8/8/2000	0	NM	NM
	11/8/2000	0	NM	NM
	2/6/2001	0	NM	NM
	5/1/2001	0	NM	NM
	8/7/2001	19.1	30.12	79.7
	11/6/2001	0	30.15	70.7
	2/5/2002	0	30.33	63.5
	5/6/2002	0	30.18	95
	8/5/2002	110	29.94	92.5
	11/4/2002	0	29.94	85.1
	2/4/2003	0	29.80	65.0
	5/5/2003	0	29.94	92
KBA-11-03B	8/3/1999	0.2	NM	NM
	11/8/1999	2	NM	NM
	5/2/2000	0	NM	NM
	11/8/2000	0	NM	NM
	2/5/2001	0	NM	NM
	8/7/2001	2.4	30.12	94.6
	11/6/2001	0	30.12	72.5
	2/5/2002	0	30.3	55.4
	5/6/2002	9.6	30.18	90
	8/5/2002	0	29.94	92.5
	11/4/2002	0	29.94	85.1
	2/4/2003	0	29.83	63.0
	5/5/2003	0	29.94	92
KBA-11-08B	8/3/1999	0	NM	NM
	11/8/1999	1.5	NM	NM
	5/2/2000	0	NM	NM
	11/8/2000	0	NM	NM
	2/5/2001	0	NM	NM
	8/7/2001	0	30.12	96.4
	11/6/2001	0	30.12	73.4
	2/5/2002	0.9	30.3	51.8
	5/6/2002	1.6	30.18	92.1
	8/5/2002	0	29.94	92.5
	11/4/2002	2.6	29.94	86.5
	2/4/2003	0	29.83	62.0
	5/5/2003	0	29.94	92

NM = not measured
PID = photoionization detector

Table 1
Headspace Readings

Well Identification	Date	PID Measurement (ppm)	Barometer Pressure (Inches of Hg)	Temperature (F°)
KBA-11-10B	8/2/1999	1.9	NM	NM
	11/8/1999	5	NM	NM
	8/8/2000	0	NM	NM
	11/8/2000	0	NM	NM
	2/5/2001	0	NM	NM
	8/7/2001	0	30.12	94.7
	11/6/2001	0	30.15	68
	2/5/2002	0	30.33	57.2
	5/6/2002	0	30.18	92.5
	8/5/2002	2000	29.97	89.1
	11/4/2002	0	29.94	86
	2/4/2003	0	29.8	66
	5/5/2003	0	29.94	92
KBA-11-11A	8/3/1999	0.3	NM	NM
	11/8/1999	4.5	NM	NM
	5/2/2000	0	NM	NM
	8/10/2000	0	NM	NM
	11/8/2000	0	NM	NM
	2/5/2001	0	NM	NM
	8/7/2001	0	30.12	92.4
	11/6/2001	0	30.12	74.3
	2/5/2002	0	30.3	56.3
	5/6/2002	0	30.18	92.3
	8/5/2002	0	29.94	92.5
	11/4/2002	0	29.94	86
	2/4/2003	0	29.83	62
	5/5/2003	0	29.94	92
KBA-11-13A	8/3/1999	13	NM	NM
	11/8/1999	2	NM	NM
	2/4/2000	0	NM	NM
	5/2/2000	0	NM	NM
	8/10/2000	0	NM	NM
	11/8/2000	0	NM	NM
	2/9/2001	3.5	NM	NM
	5/3/2001	0	NM	NM
	8/7/2001	2.8	30.12	88.7
	11/6/2001	0	30.15	70.7
	2/5/2002	0	30.33	55.4
	5/6/2002	0	30.18	94
	8/5/2002	0	29.97	90
	11/4/2002	0	29.94	88
	2/4/2003	0	29.8	67
	5/5/2003	0	29.94	92

NM = not measured
PID = photoionization detector

Table 1
Headspace Readings

Well Identification	Date	PID Measurement (ppm)	Barometer Pressure (Inches of Hg)	Temperature (F°)
KBA-11-13B	8/3/1999	0	NM	NM
	11/8/1999	2	NM	NM
	5/2/2000	0	NM	NM
	8/8/2000	0	NM	NM
	11/8/2000	0	NM	NM
	2/9/2001	0	NM	NM
	5/4/2001	0.1	NM	NM
	8/7/2001	0	30.12	92.6
	11/6/2001	0	30.12	70.2
	2/5/2002	0	30.33	55.4
	5/6/2002	0	30.18	94
	8/5/2002	0	29.94	90
	11/4/2002	0	29.94	88
	2/4/2003	0	29.8	66
	5/5/2003	0	29.94	92
KBA-11-15	8/17/1999	2,200	NM	NM
	11/9/1999	2.5	NM	NM
	2/7/2000	0	NM	NM
	5/2/2000	0	NM	NM
	8/9/2000	0	NM	NM
	11/8/2000	0	NM	NM
	2/13/2001	0	NM	NM
	5/4/2001	6.1	NM	NM
	8/7/2001	0	30.06	91.2
	11/6/2001	0	30.09	74.3
	2/5/2002	0	30.39	51.8
	5/6/2002	14.7	30.18	83.3
	8/5/2002	130	29.94	86
	11/4/2002	155.6	30.03	79.7
	2/4/2003	0	29.85	58
	5/5/2003	9.5	29.97	76

NM = not measured
PID = photoionization detector

Table 1
Headspace Readings

Well Identification	Date	PID Measurement (ppm)	Barometer Pressure (Inches of Hg)	Temperature (F°)
KBA-11-16	8/17/1999	3,500	NM	NM
	11/9/1999	1	NM	NM
	2/7/2000	0	NM	NM
	5/2/2000	0	NM	NM
	8/9/2000	0	NM	NM
	11/8/2000	0	NM	NM
	2/6/2001	4.2	NM	NM
	5/2/2001	10.5	NM	NM
	8/7/2001	0	30.06	94.2
	11/6/2001	3.2	30.12	77
	2/5/2002	0	30.39	53.6
	5/6/2002	43.7	30.18	87
	8/5/2002	0	29.94	89.6
	11/4/2002	49.5	30.03	80.6
	2/4/2003	0.2	29.85	59.0
	5/5/2003	21.1	29.97	77
KBA-11-17B	8/17/1999	2,700	NM	NM
	11/9/1999	5	NM	NM
	2/7/2000	0	NM	NM
	5/3/2000	0	NM	NM
	8/9/2000	0	NM	NM
	11/8/2000	0	NM	NM
	2/13/2001	0	NM	NM
	5/4/2001	0	NM	NM
	8/7/2001	0	30.06	92.9
	11/6/2001	7.5	30.12	77.9
	2/5/2002	7,200	30.39	54.5
	5/6/2002	8.3	30.18	88.1
	8/5/2002	0	29.94	90.5
	11/4/2002	377	30.03	80.6
	2/4/2003	0	29.85	59.0
	5/5/2003	16.9	29.97	77

NM = not measured
PID = photoionization detector

Table 1
Headspace Readings

Well Identification	Date	PID Measurement (ppm)	Barometer Pressure (Inches of Hg)	Temperature (F°)
KBA-11-18	8/17/1999	3,600	NM	NM
	11/9/1999	11	NM	NM
	5/3/2000	0	NM	NM
	11/8/2000	0	NM	NM
	2/16/2001	0	NM	NM
	5/4/2001	0	NM	NM
	8/7/2001	0	30.09	93.2
	11/6/2001	8.5	30.12	77.9
	2/5/2002	150	30.39	55.4
	5/6/2002	26.7	30.18	90.1
	8/5/2002	0	29.94	90.5
	11/4/2002	258	30.03	79.7
	2/4/2003	0	29.85	59.0
	5/5/2003	6.6	29.97	77
KBA-11-20	5/2/2000	0	NM	NM
	11/8/2000	0	NM	NM
	2/13/2001	0	NM	NM
	5/4/2001	0	NM	NM
	8/7/2001	0	30.09	91.3
	11/6/2001	0.5	30.09	75.2
	2/5/2002	0	30.39	53.6
	5/6/2002	13.1	30.21	85.9
	8/5/2002	179	29.94	90
	11/4/2002	193	30.03	78.8
	2/4/2003	0	29.85	59.0
	5/5/2003	9.6	29.97	76
KBA-11-21	8/3/1999	3	NM	NM
	11/9/1999	7.5	NM	NM
	5/2/2000	0	NM	NM
	11/8/2000	0	NM	NM
	2/13/2001	0	NM	NM
	5/4/2001	0	NM	NM
	8/7/2001	0	30.06	93.9
	11/6/2001	0	30.09	73.4
	2/5/2002	0	30.39	53.6
	5/6/2002	23.9	30.18	83.3
	8/5/2002	152	29.94	88.2
	11/4/2002	158	30.03	77.9
	2/4/2003	0	29.85	59.0
	5/5/2003	8.6	29.97	76

NM = not measured
PID = photoionization detector

Table 1
Headspace Readings

Well Identification	Date	PID Measurement (ppm)	Barometer Pressure (Inches of Hg)	Temperature (F°)
KBA-11-22	8/3/1999	7	NM	NM
	11/8/1999	0.6	NM	NM
	5/2/2000	0	NM	NM
	11/8/2000	0	NM	NM
	2/12/2001	0	NM	NM
	5/4/2001	0	NM	NM
	8/7/2001	14.7	30.12	91
	11/6/2001	0	30.12	73.4
	2/5/2002	0	30.33	58.1
	5/6/2002	0	30.18	95
	8/5/2002	0	29.94	91.4
	11/4/2002	26.6	29.94	84.2
	2/4/2003	0	29.8	64.0
	5/5/2003	0	29.94	92
KBA-11-34	8/3/1999	1,400	NM	NM
	11/8/1999	2	NM	NM
	2/7/2000	0.4	NM	NM
	5/2/2000	0	NM	NM
	8/8/2000	0	NM	NM
	11/8/2000	0	NM	NM
	2/8/2001	25.6	NM	NM
	5/3/2001	28.6	NM	NM
	8/7/2001	0	30.12	92.7
	11/6/2001	0	30.15	70.7
	2/5/2002	0	30.33	55.4
	5/6/2002	0	30.18	95
	8/5/2002	0	29.94	90
	11/4/2002	0	29.94	87
	2/4/2003	0	29.8	66
	5/5/2003	0	29.94	92
KBA-11-36	8/3/1999	10	NM	NM
	11/8/1999	0.6	NM	NM
	5/2/2000	0	NM	NM
	11/8/2000	0	NM	NM
	2/12/2001	0	NM	NM
	5/4/2001	0	NM	NM
	8/7/2001	0	30.12	92.8
	11/6/2001	0	30.15	70.7
	2/5/2002	0	30.33	57.2
	5/6/2002	0	30.18	95
	8/5/2002	0	29.94	90
	11/4/2002	0	29.94	87
	2/4/2003	0	29.8	66
	5/5/2003	0	29.94	92

NM = not measured
PID = photoionization detector

Table 1
Headspace Readings

Well Identification	Date	PID Measurement (ppm)	Barometer Pressure (Inches of Hg)	Temperature (F°)
KBA-11-37	8/16/1999	400	NM	NM
	11/9/1999	3	NM	NM
	2/8/2000	0	NM	NM
	5/4/2000	>2000	NM	NM
	8/9/2000	0	NM	NM
	11/8/2000	0	NM	NM
	2/7/2001	27	NM	NM
	5/2/2001	102.5	NM	NM
	8/7/2001	0	30.09	93.1
	11/6/2001	2.8	30.09	75.2
	2/5/2002	0	30.39	53.6
	5/6/2002	10.3	30.21	86.5
	8/5/2002	105	29.94	89.6
	11/4/2002	1461	30.03	79.7
	2/4/2003	0	29.85	59
	5/5/2003	11.7	29.97	76
PS-2	11/8/1999	0.5	NM	NM
	2/7/2000	0	NM	NM
	5/3/2000	>2000	NM	NM
	8/8/2000	>2000	NM	NM
	11/8/2000	0	NM	NM
	2/7/2001	0	NM	NM
	5/2/2001	0.08	NM	NM
	8/7/2001	0	30.12	91.4
	11/6/2001	0	30.15	70.7
	2/5/2002	19.9	30.33	55.4
	5/6/2002	0	30.18	95
	8/5/2002	0	29.97	88
	11/4/2002	0	29.94	85.1
	3/4/2003	0	29.8	64
	5/5/2003	0	29.94	92
PS-9	5/2/2000	0	NM	NM
	11/8/2000	0	NM	NM
	2/13/2001	0	NM	NM
	5/4/2001	0	NM	NM
	8/7/2001	0	30.06	91.2
	11/6/2001	0.03	30.09	68.9
	2/5/2002	0	30.42	49.1
	5/6/2002	10.5	30.18	84.2
	8/5/2002	240	29.94	86
	11/4/2002	186	30.03	78.8
	2/4/2003	0	29.85	59
	5/5/2003	8.7	29.97	76

NM = not measured
PID = photoionization detector

Table 2
Well Measurements

Well Identification	Date	Top of Casing Elevation (ft msl)	Depth to Water (ft btoc)	Water Elevation (ft msl)	Constructed Depth (ft btoc)	Measured Depth (ft btoc)
KBA-11-02	8/2/1999	36.02	11.37	24.65	15.00	15.42
	11/8/1999		9.61	26.41		15.19
	2/4/2000		11.50	24.52		15.30
	5/2/2000		10.10	25.92		14.00
	8/8/2000		No water	No water		10.80
	11/8/2000		8.65	27.37		10.60
	2/6/2001		10.18	25.84		10.18
	5/1/2001		9.53	26.49		10.65
	8/7/2001		8.13	27.89		10.87
	11/6/2001		8.07	27.95		10.88
	2/5/2002		8.60	27.42		11.00
	5/6/2002		9.71	26.31		10.90
	8/5/2002		10.11	25.91		10.88
	11/4/2002		6.85	29.17		10.97
	2/4/2003		7.65	28.37		10.90
	5/5/2003		7.55	28.47		11.00
KBA-11-03B	8/2/1999	33.49	10.01	23.48	47.00	47.82
	11/8/1999		8.54	24.95		47.77
	2/24/2000		9.50	23.99		49.10
	5/2/2000		8.70	24.79		47.10
	8/15/2000		10.40	23.09		47.50
	11/6/2000		7.78	25.71		47.50
	2/5/2001		8.67	24.82		47.50
	5/1/2001		8.43	25.06		47.50
	8/7/2001		6.78	26.71		47.56
	11/6/2001		7.39	26.10		47.50
	2/5/2002		8.37	25.12		47.51
	5/6/2002		8.75	24.74		47.44
	8/5/2002		8.69	24.80		47.51
	11/4/2002		7.65	25.84		47.52
	2/4/2003		7.48	26.01		47.51
	5/5/2003		7.00	26.49		47.50

ft = feet
msl = above mean sea level
btoc = below top of casing

Table 2
Well Measurements

Well Identification	Date	Top of Casing Elevation (ft msl)	Depth to Water (ft btoc)	Water Elevation (ft msl)	Constructed Depth (ft btoc)	Measured Depth (ft btoc)
KBA-11-08B	8/2/1999	38.20	13.74	24.46	43.00	43.77
	11/8/1999		12.04	26.16		43.75
	2/24/2000		13.40	24.80		44.90
	5/2/2000		12.10	26.10		43.80
	8/15/2000		14.00	24.20		43.50
	11/20/2000		11.54	26.66		43.46
	2/5/2001		12.04	26.16		43.51
	5/1/2001		11.85	26.35		43.59
	8/7/2001		10.02	28.18		43.49
	11/6/2001		10.78	27.42		43.47
	2/5/2002		11.66	26.54		43.48
	5/6/2002		12.25	25.95		43.48
	8/5/2002		11.84	26.36		43.47
	11/4/2002		10.82	27.38		43.50
	2/4/2003		10.81	27.39		43.50
	5/5/2003		10.37	27.83		43.50
KBA-11-10B	8/2/1999	38.03	13.90	24.13	51.50	51.67
	11/8/1999		12.31	25.72		51.62
	2/24/2000		13.50	24.53		53.00
	5/2/2000		12.80	25.23		53.40
	8/8/2000		14.90	23.13		52.20
	11/6/2000		14.03	24.00		54.34
	2/5/2001		12.48	25.55		51.35
	5/1/2001		12.06	25.97		51.35
	8/7/2001		10.48	27.55		51.38
	11/6/2001		10.96	27.07		51.37
	2/5/2002		12.11	25.92		51.37
	5/6/2002		12.40	25.63		51.36
	8/5/2002		12.53	25.50		51.36
	11/4/2002		11.07	26.96		51.36
	2/4/2003		10.90	27.13		51.34
	5/5/2003		10.46	27.57		51.35

ft = feet
msl = above mean sea level
btoc = below top of casing

Table 2
Well Measurements

Well Identification	Date	Top of Casing Elevation (ft msl)	Depth to Water (ft btoc)	Water Elevation (ft msl)	Constructed Depth (ft btoc)	Measured Depth (ft btoc)
KBA-11-11A	8/2/1999	35.85	11.40	24.45	37.00	37.12
	11/8/1999		9.61	26.24		37.12
	2/24/2000		11.10	24.75		37.20
	5/2/2000		9.40	26.45		37.00
	8/10/2000		11.70	24.15		37.40
	11/13/2000		8.85	27.00		36.86
	2/5/2001		9.60	26.25		36.84
	5/1/2001		9.31	26.54		36.83
	8/7/2001		7.64	28.21		36.86
	11/6/2001		8.16	27.69		36.83
	2/5/2002		8.23	27.62		36.85
	5/6/2002		9.69	26.16		36.81
	8/5/2002		9.43	26.42		36.82
	11/4/2002		8.30	27.55		36.86
	2/4/2003		8.25	27.60		36.85
	5/5/2003		7.76	28.09		36.84
KBA-11-13A	8/2/1999	34.20	10.77	23.43	42.50	42.52
	11/8/1999		9.25	24.95		42.75
	2/4/2000		10.20	24.00		42.40
	5/2/2000		9.30	24.90		42.00
	8/10/2000		11.20	23.00		42.90
	11/8/2000		6.52	27.68		42.30
	2/9/2001		9.53	24.67		42.26
	5/3/2001		9.21	24.99		42.25
	8/7/2001		7.51	26.69		42.31
	11/6/2001		8.17	26.03		42.27
	2/5/2002		9.13	25.07		42.26
	5/6/2002		9.46	24.74		42.29
	8/5/2002		9.47	24.73		42.25
	11/4/2002		8.20	26.00		42.29
	2/4/2003		8.05	26.15		42.24
	5/5/2003		7.66	26.54		42.26

ft = feet
msl = above mean sea level
btoc = below top of casing

Table 2
Well Measurements

Well Identification	Date	Top of Casing Elevation (ft msl)	Depth to Water (ft btoc)	Water Elevation (ft msl)	Constructed Depth (ft btoc)	Measured Depth (ft btoc)
KBA-11-13B	8/2/1999	34.86	14.27	20.59	90.70	90.77
	11/8/1999		12.88	21.98		90.72
	2/24/2000		13.60	21.26		91.40
	5/2/2000		12.80	22.06		91.00
	8/8/2000		14.60	20.26		91.80
	11/6/2000		12.50	22.36		91.60
	2/9/2001		13.05	21.81		90.53
	5/4/2001		13.09	21.77		90.49
	8/7/2001		11.37	23.49		91.98
	11/6/2001		12.33	22.53		90.50
	2/5/2002		12.80	22.06		90.60
	5/6/2002		13.38	21.48		90.52
	8/5/2002		13.07	21.79		90.46
	11/4/2002		12.20	22.66		90.51
	2/4/2003		12.24	22.62		90.47
	5/5/2003		11.91	22.95		90.50
KBA-11-15	8/2/1999	28.49	5.60	22.89	39.00	39.22
	11/9/1999		4.07	24.42		39.17
	2/7/2000		4.80	23.69		39.00
	5/2/2000		3.90	24.59		38.00
	8/9/2000		5.70	22.79		39.30
	11/7/2000		3.69	24.80		38.70
	2/13/2001		4.45	24.04		38.89
	5/4/2001		4.12	24.37		38.90
	8/7/2001		2.22	26.27		38.94
	11/6/2001		3.20	25.29		38.90
	2/5/2002		3.98	24.51		38.90
	5/6/2002		4.43	24.06		38.90
	8/5/2002		4.32	24.17		38.92
	11/4/2002		3.38	25.11		37.91
	2/4/2003		3.24	25.25		38.92
	5/5/2003		2.69	25.80		38.90

ft = feet
msl = above mean sea level
btoc = below top of casing

Table 2
Well Measurements

Well Identification	Date	Top of Casing Elevation (ft msl)	Depth to Water (ft btoc)	Water Elevation (ft msl)	Constructed Depth (ft btoc)	Measured Depth (ft btoc)
KBA-11-16	8/2/1999	28.66	6.17	22.49	44.90	44.77
	11/9/1999		4.73	23.93		44.72
	2/7/2000		5.30	23.36		45.30
	5/3/2000		3.90	24.76		44.00
	8/9/2000		6.40	22.26		45.10
	11/8/2000		4.39	24.27		44.45
	2/6/2001		4.98	23.68		44.47
	5/2/2001		4.48	24.18		44.46
	8/7/2001		2.59	26.07		43.48
	11/6/2001		3.99	24.67		44.46
	2/5/2002		4.70	23.96		44.47
	5/6/2002		5.09	23.57		44.45
	8/5/2002		4.95	23.71		44.47
	11/4/2002		4.00	24.66		44.47
	2/4/2003		3.83	24.83		44.48
	5/5/2003		3.45	25.21		44.48
KBA-11-17B	8/2/1999	25.41	4.61	20.80	44.80	44.72
	11/9/1999		3.03	22.38		44.67
	2/7/2000		3.60	21.81		44.40
	5/3/2000		2.70	22.71		42.30
	8/9/2000		4.60	20.81		45.00
	11/7/2000		3.07	22.34		45.30
	2/13/2001		3.65	21.76		44.41
	5/4/2001		3.33	22.08		44.41
	8/7/2001		1.29	24.12		44.48
	11/6/2001		2.81	22.60		44.41
	2/5/2002		3.27	22.14		44.44
	5/6/2002		3.74	21.67		44.44
	8/5/2002		3.35	22.06		44.43
	11/4/2002		2.66	22.75		44.45
	2/4/2003		2.64	22.77		44.42
	5/5/2003		2.20	23.21		44.41

ft = feet
msl = above mean sea level
btoc = below top of casing

Table 2
Well Measurements

Well Identification	Date	Top of Casing Elevation (ft msl)	Depth to Water (ft btoc)	Water Elevation (ft msl)	Constructed Depth (ft btoc)	Measured Depth (ft btoc)
KBA-11-18	8/2/1999	22.81	3.67	19.14	45.80	45.82
	11/9/1999		2.05	20.76		45.77
	2/25/2000		2.70	20.11		46.80
	5/3/2000		1.50	21.31		45.50
	8/15/2000		3.70	19.11		45.40
	11/8/2000		2.24	20.57		47.51
	2/16/2001		2.77	20.04		45.50
	5/4/2001		2.57	20.24		45.51
	8/7/2001		0.38	22.43		45.59
	11/6/2001		2.18	20.63		45.51
	2/5/2002		2.45	20.36		45.53
	5/6/2002		2.96	19.85		45.43
	8/5/2002		2.48	20.33		45.51
	11/4/2002		1.82	20.99		45.51
	2/4/2003		1.90	20.91		45.54
	5/5/2003		1.55	21.26		45.50
KBA-11-20	8/2/1999	23.07	3.22	19.85	40.00	40.12
	11/9/1999		1.94	21.13		40.12
	2/25/2000		2.60	20.47		40.90
	5/2/2000		1.60	21.47		40.90
	8/15/2000		3.60	19.47		40.20
	11/8/2000		2.18	20.89		39.84
	2/13/2001		2.39	20.68		39.86
	5/4/2001		2.48	20.59		39.86
	8/7/2001		0.58	22.49		39.87
	11/6/2001		2.04	21.03		39.84
	2/5/2002		2.18	20.89		39.86
	5/6/2002		2.73	20.34		39.84
	8/5/2002		1.95	21.12		39.85
	11/4/2002		1.67	21.40		39.85
	2/4/2003		1.77	21.30		39.86
	5/5/2003		1.16	21.91		39.86

ft = feet
msl = above mean sea level
btoc = below top of casing

Table 2
Well Measurements

Well Identification	Date	Top of Casing Elevation (ft msl)	Depth to Water (ft btoc)	Water Elevation (ft msl)	Constructed Depth (ft btoc)	Measured Depth (ft btoc)
KBA-11-21	8/2/1999	23.56	3.75	19.81	40.40	40.57
	11/9/1999		2.40	21.16		40.57
	2/25/2000		2.90	20.66		41.80
	5/2/2000		2.10	21.46		40.80
	8/15/2000		3.60	19.96		40.20
	11/6/2000		2.40	21.16		40.20
	2/13/2001		2.69	20.87		40.30
	5/4/2001		2.83	20.73		40.30
	8/7/2001		0.94	22.62		40.30
	11/6/2001		2.25	21.31		40.29
	2/5/2002		2.49	21.07		40.30
	5/6/2002		3.04	20.52		40.27
	8/5/2002		2.36	21.20		40.29
	11/4/2002		2.00	21.56		40.31
	2/4/2003		2.12	21.44		40.29
	5/5/2003		1.94	21.62		40.29
KBA-11-22B	8/2/1999	36.13	11.92	24.21	52.60	52.62
	11/8/1999		10.34	25.79		52.59
	2/25/2000		11.60	24.53		53.60
	5/2/2000		10.80	25.33		52.20
	8/15/2000		11.40	24.73		52.30
	11/8/2000		9.21	26.92		52.30
	2/5/2001		10.48	25.65		52.29
	5/4/2001		10.18	25.95		52.33
	8/7/2001		8.54	27.59		52.38
	11/6/2001		8.81	27.32		52.28
	2/5/2002		10.15	25.98		52.29
	5/6/2002		10.40	25.73		52.28
	8/5/2002		10.59	25.54		52.28
	11/4/2002		9.26	26.87		52.29
	2/4/2003		9.01	27.12		52.29
	5/5/2003		8.45	27.68		52.28

ft = feet
msl = above mean sea level
btoc = below top of casing

Table 2
Well Measurements

Well Identification	Date	Top of Casing Elevation (ft msl)	Depth to Water (ft btoc)	Water Elevation (ft msl)	Constructed Depth (ft btoc)	Measured Depth (ft btoc)
KBA-11-34	8/2/1999	37.51	13.75	23.76	40.00	41.07
	11/8/1999		12.18	25.33		41.07
	2/7/2000		13.20	24.31		41.04
	5/2/2000		12.30	25.21		41.40
	8/8/2000		14.30	23.21		41.60
	11/8/2000		11.31	26.20		40.76
	2/8/2001		12.40	25.11		40.76
	5/3/2001		12.01	25.50		40.45
	8/7/2001		10.35	27.16		40.78
	11/6/2001		10.96	26.55		40.78
	2/5/2002		11.95	25.56		40.76
	5/6/2002		12.26	25.25		40.77
	8/5/2002		12.42	25.09		40.76
	11/4/2002		10.95	26.56		40.78
	2/4/2003		10.79	26.72		40.74
	5/5/2003		10.37	27.14		40.75
KBA-11-36	8/2/1999	37.91	14.34	23.57	40.00	41.67
	11/8/1999		12.84	25.07		41.65
	2/24/2000		14.02	23.89		42.50
	5/4/2000		12.90	25.01		41.40
	8/15/2000		14.60	23.31		41.40
	11/8/2000		12.02	25.89		41.62
	2/12/2001		13.07	24.84		41.39
	5/4/2001		12.67	25.24		41.39
	8/7/2001		10.95	26.96		41.39
	11/6/2001		11.56	26.35		41.38
	2/5/2002		12.57	25.34		41.36
	5/6/2002		12.85	25.06		41.35
	8/5/2002		12.97	24.94		41.36
	11/4/2002		11.57	26.34		41.38
	2/4/2003		11.41	26.50		41.34
	5/5/2003		11.00	26.91		41.36

ft = feet
msl = above mean sea level
btoc = below top of casing

Table 2
Well Measurements

Well Identification	Date	Top of Casing Elevation (ft msl)	Depth to Water (ft btoc)	Water Elevation (ft msl)	Constructed Depth (ft btoc)	Measured Depth (ft btoc)
KBA-11-37	8/16/1999	26.26	4.15	22.11	38.50	38.57
	11/9/1999		2.86	23.40		38.46
	2/8/2000		3.20	23.06		38.40
	5/4/2000		2.40	23.86		38.20
	8/9/2000		4.10	22.16		38.60
	11/8/2000		2.76	23.50		30.20
	2/7/2001		2.96	23.30		38.18
	5/2/2001		3.00	23.26		38.20
	8/7/2001		1.37	24.89		38.21
	11/6/2001		2.43	23.83		38.19
	2/5/2002		2.82	23.44		38.18
	5/6/2002		3.28	22.98		38.19
	8/5/2002		2.84	23.42		38.19
	11/4/2002		2.29	23.97		38.20
	2/4/2003		2.23	24.03		38.22
	5/5/2003		1.95	24.31		38.20
PS-2	8/17/1999	32.71	9.60	23.11	40.67	39.60
	11/8/1999		7.80	24.91		37.47
	2/7/2000		8.80	23.91		36.80
	5/4/2000		7.20	25.51		36.80
	8/8/2000		9.90	22.81		37.50
	11/8/2000		8.85	23.86		36.86
	2/7/2001		8.06	24.65		37.24
	5/2/2001		7.72	24.99		37.19
	8/7/2001		5.97	26.74		37.24
	11/6/2001		6.68	26.03		37.24
	2/5/2002		7.61	25.10		37.22
	5/6/2002		8.00	24.71		37.20
	8/5/2002		8.01	24.70		37.21
	11/4/2002		6.76	25.95		37.20
	2/4/2003		6.65	26.06		37.23
	5/5/2003		6.22	26.49		37.15

ft = feet
msl = above mean sea level
btoc = below top of casing

Table 3
Well Purge Parmeters

Well Identification	Date	Volume Purged (gal)	Temperature (°C)	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)
KBA-11-02	11/9/1999	6	23.4	5.94	-160	0.527	3	0.51
	2/4/2000	3	22.7	5	-258	0.604	12	1.7
	5/3/2000	6	22.5	6.8	NM	0.44	10	2.3
	8/8/2000			no water – well was not purged				
	11/8/2000	6	23.7	6.62	-189	0.325	7	0.67
	2/6/2001	6	18.9	6.35	-255	0.343	11	0.07
	5/1/2001	6	22	6.1	-84	0.276	6	8.55
	8/8/2001	6	26.9	7.09	-242.2	0.248	10	9.65
	11/7/2001	8	22.7	6.69	-59	0.317	0.7	3.59
	2/6/2002	6	20.96	6.51	-85	0.206	0.4	0.97
	5/7/2002	8	22.1	6.42	-105	0.167	5.31	0
	8/6/2002	6	27.97	8.52	-39	0.35	5.1	3.88
	11/5/2002	8	24.58	6.14	-47	0.808	-1.9	5.17
	8/2/1999	6	25.6	5.14	-221	0.304	2	NM
KBA-11-10B	8/8/200	6	25	6.3	-65	0.295	12	0.04
	8/9/2001	6	24.1	6.16	-222.6	0.317	5	9.99
	8/7/2002	8	25.82	8.37	-23	0.328	6.8	3.96
KBA-11-11A	8/10/2000	6	22.9	6	-18	0.071	4	0.01
	8/8/2001	8	22.8	5.64	-216.6	0.079	10	8.6
	8/6/2002	8	24.02	7.45	3	0.074	0.4	3.67
	5/6/2003	8	21.8	5.56	-39	0.06	13.1	3.59
KBA-11-13A	8/3/1999	6	24.3	5.5	-210	0.463	17	NM
	11/9/1999	8	23	5.54	-142	0.467	2	0.78
	2/4/2000	8	22.3	6.68	-217	0.503	10	1.17
	5/3/2000	6	24.5	6.4	-113	0.561	10	1.1
	8/10/2000	6	23.7	6.2	-48	1.35	1	0.11
	11/8/2000	6	24.3	5.4	-81	1.3	4	0.4
	2/8/2001	6	23.8	4.8	-277	1.8	8	0.31
	5/3/2001	6	22.8	4.75	-76	2.16	1.9	8.5
	8/8/2001	8	25.2	4.98	-166.8	2.38	9	9.05
	11/7/2001	6	23.3	4.97	-10	1.75	0.6	3.53
	2/6/2002	8	24.1	4.85	-42	1.8	5.8	5.88
	5/8/2002	8	23.89	4.46	-16	1.66	8.3	0
	8/6/2002	8	26.67	6.7	69	1.82	32.7	2.51
	11/6/2002	8	23.8	5.84	-2	1.72	16.8	3.57
	2/5/2003	8	22.2	4.34	-62	1.21	7.33	3.41
	5/6/2003	8	23.3	4.27	57	1.24	113	2.63
KBA-11-13B	8/3/1999	8	24.9	7.15	-43	0.267	0	NM
	8/8/2000	6	24.3	7.5	-37	0.241	2	0.07
	8/8/2001	6	24.5	8.11	-243.3	0.29	0.85	10.21
	8/7/2002	8	26.3	8.76	-41	0.341	3.1	3.53
KBA-11-15	8/3/1999	6	25	4.9	-182	0.677	9	NM
	2/7/2000	7	20.8	5.04	-313	0.536	5	1.43
	8/9/2000	6	24.2	5.7	-91	0.694	3	0.13
	8/9/2001	6	22.7	5.9	-204.8	0.97	10	8.83
	8/7/2002	8	24.57	7.62	24	0.775	2.7	5.54

°C = degrees centigrade
NTU = nephelometric turbidity units
mV = millivolts

mg/L = milligrams per liter
mS/cm =microsiemens per centimeter
NM = not measured

Table 3
Well Purge Parmeters

Well Identification	Date	Volume Purged (gal)	Temperature (°C)	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)
KBA-11-16	8/3/1999	7	26.8	4.76	-111	0.171	35	NM
	11/9/1999	8	24	4.89	-104	0.263	20	0.57
	2/7/2000	7	22.8	5.4	-275	0.364	8	1.09
	5/4/2000	6	23.6	6.1	NM	0.146	10	3.7
	8/9/2000	6	24.6	5.6	-67.7	0.331	1	0.06
	11/8/2000	6	25.02	5.02	-102	0.302	4	0.15
	2/6/2001	6	23.4	4.92	-111	0.345	2	0.03
	5/2/2001	6	23.1	4.17	-123	0.411	7	7.3
	8/9/2001	8	24.4	5.58	-248.1	0.394	4	8.68
	11/7/2001	8	23.6	4.79	-54	0.387	4.8	0.8
	2/6/2002	6	24.64	4.94	-140	0.28	0.7	2.3
	5/7/2002	6	24.41	4.81	-170	0.188	6.5	0
	8/7/2002	8	27.44	8.36	-45	0.449	1.1	10.45
	11/5/2002	8	25.29	5.82	-147	0.339	-0.3	4.3
	2/5/2003	8	20.80	5.22	-199	0.326	4.5	4.92
	5/5/2003	8	23.5	5.2	-170	0.369	60.8	2.38
KBA-11-17B	8/3/1999	8	24.7	4.48	-112	0.118	6	NM
	2/7/2000	7	21.9	5.4	-287	0.135	3	1.08
	8/9/2000	6	24.3	6.8	-101	0.073	2	0.01
	8/9/2001	6	23.6	5.46	-178.4	0.118	10	8.7
	8/7/2002	8	25.88	7.14	58	0.583	2	3.35
KBA-11-34	8/3/1999	6	30.5	3.2	-300	2.36	13	NM
	11/9/1999	8	27.2	3.58	-134	2.26	9	0.44
	2/7/2000	8	24.9	2.81	-184	2.19	9	2.43
	5/4/2000	6	25.8	3.9	-119	1.36	10	5.85
	8/8/2000	6	27.8	3.7	-315	1.78	38	0.02
	11/8/2000	6	26.03	3.51	-189	1.73	44	1.73
	2/8/2001	6	26.9	3.8	-249	1.69	4	0.06
	5/3/2001	8	25.2	3.88	-113	1.48	3	6.96
	8/9/2001	6	27.5	4.35	-152.5	1.07	12	8.77
	11/7/2001	6	25.3	3.7	-404	0.652	4.7	19.99
	2/6/2002	6	28.08	3.45	-322	1.28	0.5	8.45
	5/8/2002	8	27.12	3.65	-260	1.1	4.5	0
	8/8/2002	8	27.89	5.05	112	1.02	5.3	3.32
	11/5/2002	8	26.83	4.85	97	0.913	0.3	4.95
	2/5/2003	8	24.3	3.94	-161	0.783	42.4	2.64
	5/5/2003	8	26.3	3.97	210	0.898	36.3	0.7

°C = degrees centigrade
NTU = nephelometric turbidity units
mV = millivolts

mg/L = milligrams per liter
mS/cm =microsiemens per centimeter
NM = not measured

Table 3
Well Purge Parmeters

Well Identification	Date	Volume Purged (gal)	Temperature (°C)	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)
KBA-11-37	8/16/1999	9	25.5	5.52	-227	0.517	15	NM
	11/9/1999	8	24.2	5.37	-200	0.573	12	0.46
	2/8/2000	8	21.3	6.1	-323	0.562	6	1.45
	5/4/2000	6	24	6.3	NM	0.517	10	1.75
	8/9/2000	6	24.6	6.2	-119	0.551	3	0.03
	11/8/2000	6	26.2	5.67	-73	0.533	4.3	0.86
	2/7/2001	6	22.5	5.5	-73	0.559	9	0.1
	5/2/2001	8	24.2	5.41	-139	0.595	30	8.55
	8/9/2001	6	25.5	6.28	-248.8	0.587	10	9.61
	11/7/2001	8	23.7	5.57	-72	0.618	0.5	1.75
	2/5/2002	6	24.68	5.56	-147	0.395	0.7	1.27
	5/7/2002	6	24.15	5.47	-155	0.231	6.01	0
	11/5/2002	8	24.95	5.96	-120	0.365	2.2	3.20
	2/5/2003	8	21.1	5.94	-148	0.310	2.5	5.09
PS-2	8/18/1999	7	23.2	4.95	-213	0.381	10	NM
	11/9/1999	8	22	4.87	-144	0.363	2	0.35
	2/7/2000	8	19.5	4.93	-387	0.355	10	1.43
	5/3/2000	6	21.6	5.7	NM	0.317	10	1.3
	8/8/2000	6	23	5	-108	0.3	2	0.04
	11/8/2000	6	24.2	5.4	-92	0.298	4	0.48
	2/7/2001	6	17.7	5.24	-90	0.29	3	0.03
	5/2/2001	8	21.7	5.42	-123	0.327	1	7.8
	8/9/2001	6	23.1	5.8	-223.5	0.318	5	9.84
	11/7/2001	8	21.2	5.06	-33	0.334	0.2	1.64
	2/6/2002	6	22.85	5.24	-120	0.286	0.7	0.8
	5/6/2002	6	22.1	4.98	-105	0.163	9.9	0
	11/5/2002	8	22.55	5.61	2	0.312	7.3	4.62
	2/5/2003	8	20.40	5.48	-160	0.325	3.9	2.10
	5/5/2003	8	23.6	5.52	-150	0.372	46.2	1.5

°C = degrees centigrade
NTU = nephelometric turbidity units
mV = millivolts

mg/L = milligrams per liter
mS/cm =microsiemens per centimeter
NM = not measured

Table 4
Analytical Summary, Groundwater Protection Standard Compounds

KBA-11-02																		
Date	Tetrachloroethene	Trichloroethene	Cis -1,2-dichloroethene	Trans-1,2 dichloroethene	1,1-dichloroethene	1,1-dichloroethane	1,2-dichloroethane	Vinyl Chloride	Chloroethane	Benzene	Ethylbenzene	Toluene	Total xylenes	Chlorobenzene	1,4-dichlorobenzene	Naphthalene	Nickel (mg/L)	Cobalt (mg/L)
8/3/1999	3.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA	NA	NA
11/9/1999	3.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA	NA	NA
2/4/2000	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA	NA	NA
5/3/2000	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA	NA	NA
11/8/2000	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA	NA	NA
2/6/2001	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA	NA	NA
5/2/2001	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	0.1	1.0U	1.0U	NA	NA	NA
8/8/2001	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA	NA	NA
11/7/2001	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	4.8JB	NA	NA
2/6/2002	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	1.0U	NA	NA
5/7/2002	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	1.0U	0.00137	0.00137
8/6/2002	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	1.0U	0.0012	0.000036
11/5/2002	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	10U	NA	NA
Criteria	5.0	5.0	70	100	7.0	1.0	5.0	2.0	1.0	5.0	700	1,000	10,000	1.0	75	---	0.1	---

Notes:
I = interference.
J = estimated value; analyte detected; value is between the method detection level (MDL) and the practical quantitation level (PQL).
U = compound was analyzed for but not detected to the level shown.
BOLD indicates result exceeds the groundwater protection standard.
B = possible blank contamination
E = estimated value
NA – Not analyzed

Table 4
Analytical Summary, Groundwater Protection Standard Compounds

KBA-11-10B

Date	Tetrachloroethene	Trichloroethene	Cis -1,2-dichloroethene	Trans-1,2 dichloroethene	1,1-dichloroethene	1,1-dichloroethane	1,2-dichloroethane	Vinyl Chloride	Chloroethane	Benzene	Ethylbenzene	Toluene	Total xylenes	Chlorobenzene	1,4-dichlorobenzene	Naphthalene	Nickel (mg/L)	Cobalt (mg/L)
8/2/1999	3.0U	1.0U	1.6I	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.6	10	1.0U	3.0U	**2.5**	1.5	NA	NA	NA
8/8/2000	1.0U	1.0U	1.0	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0	5.0	1.0U	3.0U	**1.0**	1.0	NA	NA	NA
8/9/2001	1.0U	1.0U	1.0	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	0.57J	2.5	1.0U	3.0U	**1.2**	0.76J	NA	NA	NA
8/6/2002	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.1	1.0U	3.0U	1.0U	**75**	1.0U	0.00065B	0.00003
Criteria	5.0	5.0	70	100	7.0	1.0	5.0	2.0	1.0	5.0	700	1,000	10,000	1.0	75	---	0.1	---

Notes:
I = interference.
J = estimated value; analyte detected; value is between the method detection level (MDL) and the practical quantitation level (PQL).
U = compound was analyzed for but not detected to the level shown.
BOLD indicates result exceeds the groundwater protection standard.
B = possible blank contamination
E = estimated value

NA – Not analyzed

Table 4
Analytical Summary, Groundwater Protection Standard Compounds

KBA-11-11A

Date	Tetrachloroethene	Trichloroethene	Cis -1,2-dichloroethene	Trans-1,2 dichloroethene	1,1-dichloroethene	1,1-dichloroethane	1,2-dichloroethane	Vinyl Chloride	Chloroethane	Benzene	Ethylbenzene	Toluene	Total xylenes	Chlorobenzene	1,4-dichlorobenzene	Naphthalene	Cobalt (mg/L)	Nickel (mg/L)
8/2/1999	3.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA	NA	NA
8/10/2000	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0	5.0	1.0U	1.0U	1.0	1.0	NA	NA	NA
8/8/2001	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA	NA	NA
8/6/2002	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	1.0U	0.00035B	0.001B
5/5/2003	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	5.2U	0.030U	0.000295B
Criteria	5.0	5.0	70	100	7.0	1.0	5.0	2.0	1.0	5.0	700	1,000	10,000	1.0	75	---	0.1	---

Notes:
I = interference.
J = estimated value; analyte detected; value is between the method detection level (MDL) and the practical quantitation level (PQL).
U = compound was analyzed for but not detected to the level shown.
BOLD indicates result exceeds the groundwater protection standard.
B = possible blank contamination
E = estimated value

NA – Not analyzed

Table 4
Analytical Summary, Groundwater Protection Standard Compounds

KBA-11-13A																		
Date	Tetrachloroethene	Trichloroethene	Cis -1,2-dichloroethene	Trans-1,2 dichloroethene	1,1-dichloroethene	1,1-dichloroethane	1,2-dichloroethane	Vinyl Chloride	Chloroethane	Benzene	Ethylbenzene	Toluene	Total xylenes	Chlorobenzene	1,4-dichlorobenzene	Naphthalene	Nickel (mg/L)	Cobalt (mg/L)
8/3/1999	3.0U	**19**	**190**	7.4	1.0U	1.0U	1.0U	**48**	1.0U	1.1I	66	2.7	14.4	**6.2**	4.0	NA	NA	NA
11/9/1999	30U	**15I**	**260**	1.0U	1.0U	1.0U	1.0U	**46**	1.0U	1.0U	65	1.0U	24I	1.0U	1.0U	NA	NA	NA
11/9/1999 (dup)	3.0U	**17**	**210**	6.6	1.0U	1.0U	1.0U	**42**	1.0U	1.3I	92	4.2	49	**8.2**	5.2	NA	NA	NA
2/4/2000	1.0U	**14**	**230**	6.0	1.0U	1.0U	1.0U	**20**	1.0U	2.0	64	2.0	23	**6.0**	4.0	NA	NA	NA
5/3/2000	1.0U	**20**	**180**	6.0	1.0U	1.0U	1.0U	**19**	1.0U	2.0	67	2.0	4.0	**5.0**	3.0	NA	NA	NA
8/10/2000	1.0U	**51**	**300E**	9.0	1.0U	1.0U	1.0U	**17**	1.0U	1.0	71	0.90	0.70	**5.0**	3.0	NA	NA	NA
8/10/2000 (dup)	1.0U	**40**	**190**	7.0	1.0U	1.0U	1.0U	**11**	1.0U	1.0	51	0.70	3.0	**4.0**	2.0	NA	NA	NA
11/8/2000	3.0U	**54**	**160**	7.0	1.0U	1.0U	1.0U	**4.0**	1.0U	1.0	57	1.0U	2.0U	**5.0**	3.0	NA	NA	NA
2/8/2001	0.8	**45**	**110**	8.0	1.0U	1.0U	1.0U	0.9	1.0U	1.0	34	1.0U	3.0U	**3.0**	1.0U	NA	NA	NA
5/3/2001	0.59J	**37**	**88**	6.6	1.0U	1.0U	1.0U	0.9	1.0U	0.33J	20	0.46J	0.33J	**2.4**	1.4	NA	NA	NA
8/8/2001	1.6	**32**	**71**	6.4	0.44J	1.0U	1.0U	1.0U	1.0U	0.43J	22	0.43J	0.56J	**3.1**	1.4	NA	NA	NA
8/8/2001 (dup)	0.77J	**26**	59	5.4	1.0U	1.0U	1.0U	1.0U	1.0U	0.31J	14	0.30J	0.37J	**2.1**	1.4	NA	NA	NA
11/7/2001	0.86J	**24**	52	4.7	1.0U	1.0U	1.0U	1.0U	1.0U	0.36J	16	0.28J	3.0U	**2.6**	2.1B	30	NA	NA
11/7/2001 (dup)	0.66J	**20**	44	4.0	1.0U	1.0U	1.0U	1.0U	1.0U	0.34J	14	0.24J	3.0U	**2.3**	1.7B	29B	NA	NA
2/6/2002	1.6	**21**	43	4.1	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	9.0	1.0U	3.0U	**3.1**	2.0B	38B	NA	NA
2/6/2002 (dup)	1.6	**20**	42	4.2	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	8.5	1.0U	3.0U	**3.0**	1.9B	37B	NA	NA
5/8/2002	5.0	**17**	28	3.1	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	6.0	0.37J	3.0U	**2.2**	1.8	29	**0.58**	0.4
5/2/2002 (dup)	3.8	**16**	26	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	5.8	0.34J	3.0U	**1.9**	1.7	25	**0.55**	0.38
8/6/2002	**14**	**16**	25	2.5	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	5.4	1.0U	3.0U	**1.8**	1.7	NA	**0.49**	0.36
8/6/2002 (dup)	**13**	**15**	23	2.5	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	5.1	1.0U	3.0U	**1.6**	1.6	22	**0.45**	0.33
11/6/2002	**20**	**10**	13	1.1	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	5.1	1.0U	3.0U	**1.4**	1.5	31	NA	NA
11/6/2002 (dup)	**26**	**9.6**	12	1.1	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	5.2	1.0U	3.0U	**1.5**	1.5	37	NA	NA
2/5/2003	**23**	**8.8**	12	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.7	1.0U	3.0U	**1.2**	1.0	11	NA	NA
2/5/2003 (dup)	1.2	1.1	1.4	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	1.0U	NA	NA
5/5/2003	**44**	**22**	60	1.7	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	2.9	0.36J	3.0U	1	0.99J	5.6	0.0822	0.0291
5/5/2003 (dup)	**45**	**22**	60	1.8	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	2.9	0.40J	3.0U	0.98J	1.4	9.4J	NA	NA
Criteria	5.0	5.0	70	100	7.0	1.0	5.0	2.0	1.0	5.0	700	1,000	10,000	1.0	75	---	0.1	---

Notes:
I = interference.
J = estimated value; analyte detected; value is between the method detection level (MDL) and the practical quantitation level (PQL).
U = compound was analyzed for but not detected to the level shown.
BOLD indicates result exceeds the groundwater protection standard.
B = possible blank contamination
E = estimated value
NA – Not analyzed

Table 4
Analytical Summary, Groundwater Protection Standard Compounds

KBA-11-13B

Date	Tetrachloroethene	Trichloroethene	Cis -1,2-dichloroethene	Trans-1,2 dichloroethene	1,1-dichloroethene	1,1-dichloroethane	1,2-dichloroethane	Vinyl Chloride	Chloroethane	Benzene	Ethylbenzene	Toluene	Total xylenes	Chlorobenzene	1,4-dichlorobenzene	Napthalene	Cobalt (mg/L)	Nickel (mg/L)
8/3/1999	3.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA	NA	NA
8/8/2000	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA	NA	NA
8/8/2001	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA	NA	NA
8/7/2002	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	1.0U	0.00037B	0.016
Criteria	5.0	5.0	70	100	7.0	1.0	5.0	2.0	1.0	5.0	700	1,000	10,000	1.0	75	---	0.1	---

Notes:
I = interference.
J = estimated value; analyte detected; value is between the method detection level (MDL) and the practical quantitation level (PQL).
U = compound was analyzed for but not detected to the level shown.
BOLD indicates result exceeds the groundwater protection standard.
B = possible blank contamination
E = estimated value

NA – Not analyzed

Table 4
Analytical Summary, Groundwater Protection Standard Compounds

KBA-11-15																		
Date	Tetrachloroethene	Trichloroethene	Cis -1,2-dichloroethene	Trans-1,2 dichloroethene	1,1-dichloroethene	1,1-dichloroethane	1,2-dichloroethane	Vinyl Chloride	Chloroethane	Benzene	Ethylbenzene	Toluene	Total xylenes	Chlorobenzene	1,4-dichlorobenzene	Napthalene	Cobalt (mg/L)	Nickel (mg/L)
8/3/1999	3.0U	3.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA	NA
2/7/2000	1.0	1.0	1.0U	0.9I	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA	NA
2/7/2000 (dup)	1.0	1.0	1.0U	1.0	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA	NA
8/9/2000	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA	NA
8/9/2001	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA	NA
8/7/2002	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	1.0U	0.000092B
Criteria	5.0	5.0	70	100	7.0	1.0	5.0	2.0	1.0	5.0	700	1,000	10,000	1.0	75	---	0.1	---

Notes:
I = interference.
J = estimated value; analyte detected; value is between the method detection level (MDL) and the practical quantitation level (PQL).
U = compound was analyzed for but not detected to the level shown.
BOLD indicates result exceeds the groundwater protection standard.

B = possible blank contamination
E = estimated value
NA – Not analyzed

Table 4
Analytical Summary, Groundwater Protection Standard Compounds

KBA-11-16

Date	Tetrachloroethene	Trichloroethene	Cis -1,2-dichloroethene	Trans-1,2 dichloroethene	1,1-dichloroethene	1,1-dichloroethane	1,2-dichloroethane	Vinyl Chloride	Chloroethane	Benzene	Ethylbenzene	Toluene	Total xylenes	Chlorobenzene	1,4-dichlorobenzene	Naphthalene	Nickel (mg/L)	Cobalt (mg/L)
11/9/1999	3.0U	1.0U	3.6	1.0U	1.0U	**1.6I**	1.0U	1.4I	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA	NA	NA
2/7/2000	1.0U	1.0U	14	1.0U	1.0U	**5.0**	1.0U	1.0	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA	NA	NA
5/4/2000	1.0U	1.0U	2.0	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA	NA	NA
5/4/2000 (dup)	1.0U	1.0U	2.0	1.0U	1.0U	0.6U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA	NA	NA
8/9/2000	1.0U	1.0U	2.0	1.0U	1.0U	**2.0**	1.0U	1.0U	1.0U	1.0U	0.8J	1.0U	3.0U	1.0U	1.0U	NA	NA	NA
11/8/2000	2.0	1.0U	8.0	1.0U	1.0U	**2.0**	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	3.0U	1.0U	1.0U	NA	NA	NA
2/6/2001	1.0U	1.0U	34	1.0U	1.0U	**11**	1.0U	**4.0**	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA	NA	NA
5/2/2001	1.0U	0.31J	32	1.0U	1.3	**15**	1.0U	**3.4**	1.0U	0.96J	0.99J	5.4	0.86J	1.0U	1.0U	NA	NA	NA
8/9/2001	1.0U	0.42J	30	1.0U	1.8	**26**	1.0U	1.1	1.0U	1.2	1.8	15	1.7J	1.0U	1.0U	NA	NA	NA
11/7/2001	1.0U	0.72J	28	1.0U	1.7	**32**	1.0U	1.1	1.0U	1.2	2.4	26	3.1	1.0U	1.0U	1.0U	NA	NA
2/6/2002	1.0U	1.3	46	1.0U	1.0U	**31**	1.0U	1.0U	1.0U	1.1	3.2	28	5.3	1.0U	1.0U	1.0U	NA	NA
5/7/2002	0.38J	1.4	32	1.0U	2.3	**37**	1.0U	1.0U	1.0U	0.92J	4.2	25	6.4	1.0U	1.0U	1.0U	0.0014J	0.001U
8/7/2002	1.0U	1.0U	24	1.1	1.6	**27**	1.0U	1.0U	1.0U	1.0	2.9	15	5.2	1.0U	1.0U	0.9	0.0027	0.000034B
11/5/2002	1.0U	1.3	33	1.0U	2.5	**50**	1.0U	1.0U	1.0U	1.0U	5.7	29	10.5	1.0U	1.0U	10U	NA	NA
2/5/2003	1.0U	1.0U	28	1.0U	2.5	**46**	1.0U	1.0U	1.0U	1.0U	5.0	25	9.7	1.0U	1.0U	1.0U	NA	NA
5/5/2003	0.74J	0.88J	39	1.0U	3.0	**37**	1.0U	1.0U	1.0U	0.90J	4.3	28	13.2	1.0U	1.0U	10U	NA	NA
Criteria	5.0	5.0	70	100	7.0	1.0	5.0	2.0	1.0	5.0	700	1,000	10,000	1.0	75	---	0.1	---

Notes:
I = interference.
J = estimated value; analyte detected; value is between the method detection level (MDL) and the practical quantitation level (PQL).
U = compound was analyzed for but not detected to the level shown.
BOLD indicates result exceeds the groundwater protection standard.
B = possible blank contamination
E = estimated value
NA – Not analyzed

Table 4
Analytical Summary, Groundwater Protection Standard Compounds

KBA-11-17B																		
Date	Tetrachloroethene	Trichloroethene	Cis -1,2-dichloroethene	Trans-1,2 dichloroethene	1,1-dichloroethene	1,1-dichloroethane	1,2-dichloroethane	Vinyl Chloride	Chloroethane	Benzene	Ethylbenzene	Toluene	Total xylenes	Chlorobenzene	1,4-dichlorobenzene	Naphthalene	Cobalt (mg/L)	Nickel (mg/L)
8/3/1999	3.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA	NA	NA
8/3/1999	3.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA	NA	NA
8/3/1999	17	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA	NA	NA
2/7/2000	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA	NA	NA
8/9/2000	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA	NA	NA
8/9/2001	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA	NA	NA
8/7/2002	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	10.0U	0.000034	0.00086B
Criteria	5.0	5.0	70	100	7.0	1.0	5.0	2.0	1.0	5.0	700	1,000	10,000	1.0	75	---	0.1	---

Notes:
I = interference.
J = estimated value; analyte detected; value is between the method detection level (MDL) and the practical quantitation level (PQL).
U = compound was analyzed for but not detected to the level shown.

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B = possible blank contamination
E = estimated value
NA – Not analyzed

Table 4
Analytical Summary, Groundwater Protection Standard Compounds

KBA-11-34

Date	Tetrachloroethene	Trichloroethene	Cis -1,2-dichloroethene	Trans-1,2 dichloroethene	1,1-dichloroethene	1,1-dichloroethane	1,2-dichloroethane	Vinyl Chloride	Chloroethane	Benzene	Ethylbenzene	Toluene	Total xylenes	Chlorobenzene	1,4-dichlorobenzene	Naphthalene	Nickel (mg/L)	Cobalt (mg/L)
8/3/1999	**17**	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA	NA	NA
11/9/1999	**22**	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA	NA	NA
2/7/2000	**83**	2.0	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA	NA	NA
5/4/2000	**89**	1.0	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA	NA	NA
8/9/2000	**63**	0.6J	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA	NA	NA
11/8/2000	**79**	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA	NA	NA
2/8/2001	**73**	2.0	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA	NA	NA
5/3/2001	**62**	2.6	0.27J	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	0.13J	0.24J	0.17J	1.0U	0.41J	NA	NA	NA
8/9/2001	**35**	3.0	2.8	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	0.56J	NA	NA	NA
11/7/2001	**97**	1.7	1.5	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	0.47JB	4.0 JB	NA	NA
2/6/2002	**61**	0.63J	0.54J	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	0.34JB	1.0U	NA	NA
5/8/2002	**75**	2.2	5.0	0.37J	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	0.39J	0.094J	**0.15**	0.28
8/8/2002	**100**	**15**	7.9	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	1.0U	0.073	0.077
11/5/2002	**110**	**7.6**	3.1	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	10U	NA	NA
2/5/2003	**69**	**5.2**	1.5	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	10U	NA	NA
5/5/2003	**58**	**6.2**	1.8	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	0.74J	10U	NA	NA
Criteria	5.0	5.0	70	100	7.0	1.0	5.0	2.0	1.0	5.0	700	1,000	10,000	1.0	75	---	0.1	---

Notes:
I = interference.
J = estimated value; analyte detected; value is between the method detection level (MDL) and the practical quantitation level (PQL).
U = compound was analyzed for but not detected to the level shown.
BOLD indicates result exceeds the groundwater protection standard.
B = possible blank contamination
E = estimated value
NA – Not analyzed

Table 4
Analytical Summary, Groundwater Protection Standard Compounds

KBA-11-37																		
Date	Tetrachloroethene	Trichloroethene	Cis -1,2-dichloroethene	Trans-1,2 dichloroethene	1,1-dichloroethene	1,1-dichloroethane	1,2-dichloroethane	Vinyl Chloride	Chloroethane	Benzene	Ethylbenzene	Toluene	Total xylenes	Chlorobenzene	1,4-dichlorobenzene	Naphthalene	Nickel (mg/L)	Cobalt (mg/L)
8/16/1999	3.0U	1.0U	24	1.0U	1.0U	1.0U	1.0U	**2.5I**	1.0U	2.1	15	1.0U	3.0U	**2.9**	3.6	NA	NA	NA
11/9/1999	3.0U	1.0U	17	1.0U	1.0U	1.0U	1.0U	1.4I	1.0U	2.0	14	1.0U	3.0U	**3.1**	4.7	NA	NA	NA
2/8/2000	1.0U	1.0U	16	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	2.0	9.0	1.0	3.0U	**2.0**	3.0	NA	NA	NA
5/4/2000	1.0U	1.0U	17	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	2.0	1.0U	1.0U	12	**3.0**	3.0	NA	NA	NA
8/9/2000	1.0U	1.0U	14	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	2.0	7.0	1.0U	3.0	**2.0**	3.0	NA	NA	NA
11/8/2000	1.0U	1.0U	11	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	2.0	10	1.0U	2.0U	**3.0**	4.0	NA	NA	NA
11/8/2000 (dup)	1.0U	1.0U	11	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	2.0	11	1.0U	2.0U	**3.0**	3.0	NA	NA	NA
2/7/2001	1.0U	1.0U	13	1.0U	1.0U	1.0U	1.0U	0.6J	1.0U	2.0	13	1.0U	3.0U	**2.0**	1.0U	NA	NA	NA
5/2/2001	1.0U	1.0U	13	1.0U	1.0U	1.0U	1.0U	0.6J	1.0U	1.3	10	0.41J	0.18J	**2.1**	2.6	NA	NA	NA
8/8/2001	1.0U	1.0U	12	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.3	13	0.22J	3.0U	**2.8**	3.1	NA	NA	NA
11/7/2001	1.0U	1.0U	6.9	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.1	8.2	1.0U	3.0U	**3.8**	2.4B	25	NA	NA
2/6/2002	1.0U	1.0U	6.0	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	0.85J	6.4	1.0U	3.0U	**4.6**	2.4B	17B	NA	NA
5/7/2002	1.0U	1.0U	5.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	0.79J	5.4	1.0U	3.0U	**5.6**	2.4	12	0.0014	0.001U
8/8/2002	1.0U	1.0U	4.6	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	4.2	1.0U	3.0U	**5.5**	2.4	13	0.0021	0.00003U
11/5/2002	1.0U	1.0U	4.4	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	4.4	1.0U	3.0U	**6.4**	3.3	30	NA	NA
2/5/2003	1.0U	1.0U	2.4	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	2.3	1.0U	3.0U	**5.5**	4.3	25	NA	NA
5/5/2003	1.0U	1.0U	7.2	1.0U	1.0U	1.0U	1.0U	1.2	1.0U	0.72J	3.3	1.0U	3.0U	**6.2**	3.6	14	NA	NA
Criteria	5.0	5.0	70	100	7.0	1.0	5.0	2.0	1.0	5.0	700	1,000	10,000	1.0	75	---	0.1	---

Notes:
I = interference.
J = estimated value; analyte detected; value is between the method detection level (MDL) and the practical quantitation level (PQL).
U = compound was analyzed for but not detected to the level shown.
BOLD indicates result exceeds the groundwater protection standard.
B = possible blank contamination
E = estimated value
NA – Not analyzed

Table 4
Analytical Summary, Groundwater Protection Standard Compounds

PS-2

Date	Tetrachloroethene	Trichloroethene	Cis -1,2-dichloroethene	Trans-1,2 dichloroethene	1,1-dichloroethene	1,1-dichloroethane	1,2-dichloroethane	Vinyl Chloride	Chloroethane	Benzene	Ethylbenzene	Toluene	Total xylenes	Chlorobenzene	1,4-dichlorobenzene	Naphthalene	Nickel (mg/L)	Cobalt (mg/L)
8/18/1999	3.0U	1.3I	41	1.0U	1.0U	**5.6**	1.0U	**3.2I**	1.0U	**9.1**	10	43	29	1.0U	1.0U	NA	NA	NA
11/9/1999	3.0U	1.4I	40	1.0U	1.0U	**5.1**	1.0U	**2.9**	1.0U	**9.4**	16	57	47	1.0U	1.0U	NA	NA	NA
2/7/2000	1.0U	2.0	52	1.0U	1.0U	**5.0**	1.0U	**2.0**	1.0U	**8.0**	14	37	40	1.0U	1.0U	NA	NA	NA
5/3/2000	1.0U	2.0	57	0.5	1.0U	**5.0**	1.0U	1.0U	1.0U	**8.0**	16	19	41	0.7	1.0U	NA	NA	NA
8/8/2000	1.0U	2.0	58	1.0U	1.0U	**4.0**	1.0U	**2.0**	1.0U	**6.0**	14	8.0	19	0.5	1.0U	NA	NA	NA
11/8/2000	3.0U	2.0	61	1.0U	1.0U	**4.0**	1.0U	**3.0**	1.0U	**5.0**	18	5.0	7.0	**1.0**	1.0U	NA	NA	NA
2/7/2001	1.0U	2.0	**71**	0.6J	1.0U	**4.0**	1.0U	**3.0**	1.0U	4.0	18	3.0	4.0	0.5J	1.0U	NA	NA	NA
5/2/2001	0.14J	1.9	**79**	0.60J	1.0U	**4.1**	1.0U	**2.4**	1.0U	3.7	22	2.9	3.6	0.59J	1.0U	NA	NA	NA
8/9/2001	1.0U	2.0	**99**	0.80J	1.0U	**4.2**	1.0U	**2.4**	1.0U	3.4	22	2.7	3.5	0.92J	1.0U	NA	NA	NA
11/7/2001	1.0U	2.0	**110**	0.84J	1.0U	**4.1**	1.0U	**3.0**	1.0U	2.7	20	1.9	2.4J	**1.2**	1.0	3.7JB	NA	NA
2/6/2002	1.0U	1.7	**110**	0.73J	1.0U	**3.4**	1.0U	**2.7**	1.0U	2.1	14	1.5	1.9J	**1.6**	1.0U	1.0U	NA	NA
5/6/2002	1.0U	1.6	**120**	0.80J	1.0U	**3.6**	0.85J	**3.0**	**2.3**	2.0	13	1.7	1.4J	**1.8**	1.0U	0.061J	0.00043	0.001U
8/6/2002	1.0U	1.5	**110**	1.0U	1.0U	**2.8**	1.0U	**2.3**	1.0U	1.7	12	1.3	3.0U	**2.2**	1.0U	1.0U	0.00053B	0.00003
11/5/2002	1.0U	1.3	**120**	1.0U	1.0U	**2.9**	1.0U	**3.2**	1.0U	1.6	11	1.2	3.0U	**1.6**	1.0U	10U	NA	NA
2/5/2003	1.0U	1.3	**100**	1.0U	1.0U	**2.3**	1.0U	**2.9**	1.0U	1.4	9.1	1.0U	3.0U	**1.5**	1.0U	10U	NA	NA
5/5/2003	1.0U	1.6	**140**	1.1	1.0U	**2.5**	1.0U	**4.3**	1.0U	1.6	9.7	1.2	3.0U	**1.6**	1.0U	10U	NA	NA
Criteria	5.0	5.0	70	100	7.0	1.0	5.0	2.0	1.0	5.0	700	1,000	10,000	1.0	75	---	0.1	---

Notes:
I = interference.
J = estimated value; analyte detected; value is between the method detection level (MDL) and the practical quantitation level (PQL).
U = compound was analyzed for but not detected to the level shown.
BOLD indicates result exceeds the groundwater protection standard.
B = possible blank contamination
E = estimated value
NA – Not analyzed

Table 5
Analytical Summary: Appendix IX Compounds

Appendix IX Constituents (only detectable compounds shown)	KBA-11-11A Background Well					KBA-11-13A Downgradient Well							
Date Collected	8-19-99	8-10-00	8-08-01	8-06-02	5-06-03	8-03-99	8-10-00	8-08-01	9-20-01 (resample)	8-06-02	8-06-02 (duplicate)	5-06-03	5-06-03 (duplicate)
Volatile Organic (ug/L)													
Vinyl Chloride	ND	ND	ND	ND	ND	49.6	17	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	22.7	51	35	7	16	15	22	22
Toluene	ND	ND	ND	ND	ND	3.5	0.95	ND	ND	ND	ND	0.36J	0.40J
Chlorobenzene	ND	ND	ND	ND	ND	5.8	5.0	3.4	3	1.8	1.6	1	0.98J
Ethylbenzene	ND	ND	ND	ND	ND	79.6	71	21	24	5.4	5.1	2.9	2.9
Xylenes (total)	ND	ND	ND	ND	ND	19.5	0.71	ND	ND	ND	ND	ND	ND
Trans-1,2 dichloroethene	ND	ND	ND	ND	ND	4.7	9.0	6.4	1	2.5	2.5	1.7	1.8
Cis -1,2-dichloroethene	ND	ND	ND	ND	ND	234E	300E	71	14	25	23	60	60
1,4 - dichlorobenzene	ND	1.0	ND	ND	ND	4.0	3.0	1.4	ND	1.7	1.6	0.99J	1.4
1,1-dichloroethene	ND	ND	ND	ND	ND	ND	ND	0.44J	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND	1.0	ND	ND	ND	ND	ND	ND
Carbon disulfide	ND	ND	ND	ND	ND	4.6J	ND	8.2	ND	ND	ND	15	16
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	2.2	ND	14	13	44	45
Semivolatile Organic (ug/L)													
Naphthalene	ND	ND	ND	ND	ND	18.3	20	15	19	20	NA	5.6	9.4J
Di-n-butyl Phthalate	ND	ND	ND	1.9J	ND	ND	ND	ND	ND	ND	NA	ND	NA
Diethyl Phthalate	ND	5.2	ND	ND	ND	ND	7.2	ND	ND	ND	NA	ND	NA
Dioxins/furans (pg/L)													
1,2,3,4,6,7,8-HpCDD	ND	ND	ND	15.491J	ND	ND	ND	ND	ND	ND	NA	ND	NA
OCDD	ND	ND	ND	158.321J	ND	ND	ND	ND	ND	6.194J	NA	ND	NA
1,2,3,4,6,7,8-HpCDF	ND	ND	ND	2.191JK	ND	ND	ND	ND	ND	ND	NA	ND	NA
OCDF	ND	ND	ND	2.957J	ND	ND	ND	ND	ND	ND	NA	ND	NA
Total Hepta-Dioxins	ND	ND	ND	15.491	ND	ND	ND	ND	ND	ND	NA	ND	NA
Total Hepta-Furans	ND	ND	ND	5.416	ND	ND	ND	ND	ND	ND	NA	ND	NA
Pesticides/PCBs/Herbicides Organics (ug/L)													
Aldrin	ND	ND	0.0072J	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA
Heptachlor	ND	ND	ND	ND	ND	ND	ND	0.031	ND	ND	NA	ND	NA
Inorganics (ug/L)													
Antimony	2.9	0.15	ND	ND	ND	2.9	0.289	ND	NA	ND	NA	0.085B	NA
Arsenic	2.7	0.318	0.159B	ND	ND	2.7	1.41	4.06	NA	ND	NA	0.077B	NA
Barium	8.2	10.4	10	11.1	7.28	15.8	74.8	74.9	NA	50.5	NA	38	NA
Beryllium	0.32	0.024	ND	ND	ND	0.09	0.022	0.923B	NA	1.260B	NA	1.78	NA
Cadmium	0.36	0.02	ND	ND	ND	0.36	0.02	0.200U	NA	ND	NA	ND	NA
Chromium	1.3	0.604	0.779B	ND	0.755B	2.5	1.94	5.400B	NA	ND	NA	5.13	NA
Cobalt	0.84	0.015	0.028B	ND	ND	0.84	0.148	177	220	278	NA	29.1	NA
Copper	1.7	1.55	ND	ND	0.742B	6.2	0.493	4.920B	NA	ND	NA	0.425B	NA
Lead	1.9	0.058	0.080B	ND	ND	2.8	0.044	ND	NA	ND	NA	ND	NA
Mercury	0.04	0.03	ND	ND	ND	0.04	0.03	ND	NA	ND	NA	ND	NA
Nickel	1.0	0.363	ND	ND	0.295B	12.7	3.48	229	NA	521	NA	82.2	NA
Selenium	2.9	0.677	1.800B	ND	ND	2.9	2.11	5.710B	NA	ND	NA	1.020B	NA
Silver	0.9	0.005	ND	1.910B	ND	3.1	0.036	0.050U	NA	3.360B	NA	ND	NA
Thallium	4.4	0.01	ND	ND	ND	3.9	0.01	0.050U	NA	ND	NA	ND	NA
Tin	2.0	0.17	ND	ND	0.128B	2	0.224	3.00U	NA	ND	NA	0.203B	NA
Vanadium	1.1	0.715	0.497B	ND	ND	5.5	5.07	4.420B	NA	5.760B	NA	4.390B	NA
Zinc	4.9	1.16	ND	ND	ND	18.3	1.99	219	20U	768	NA	120	NA
General Chemistry (mg/L)													
Cyanides	0	ND	ND	ND	ND	0	0.0008	ND	NA	ND	NA	ND	NA
Sulfides	0.45	ND	ND	ND	ND	1.1	ND	ND	NA	1.9	NA	ND	NA

Notes:
I = interference.
J = estimated value; analyte detected; value is between the method detection level (MDL) and the practical quantitation level (PQL).
U = compound was analyzed for but not detected to the level shown.
B = possible blank contamination
E = estimated value
K = estimated maximum possible concentration
ND = not detected
NA = Not analyzed

Table 6
Analytical Summary, Subdivision Irrigation Wells

108 Cottage Court

Date	Tetrachloroethene	Trichloroethene	Cis -1,2-dichloroethene	Trans-1,2 dichloroethene	1,1-dichloroethene	1,1-dichloroethane	1,2-dichloroethane	Vinyl Chloride	Chloroethane	Benzene	Ethylbenzene	Toluene	Total xylenes	Chlorobenzene	1,4-dichlorobenzene	Naphthalene
March-00	1.0U	1.0U	7.0	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA
April-00	1.0U	1.0U	5.0	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA
May-00	1.0U	1.0U	5.0	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA
June-00	1.0U	1.0U	4.0	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA
July-00	1.0U	1.0U	4.0	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA
August-00	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA
September-00	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA
October-00	1.0U	1.0U	2.0	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA
November-00	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA
December-00	1.0U	1.0U	0.7J	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA
April-01	1.0U	1.0U	3.1	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	7.0U	1.0U	1.0U	NA
May-01	1.0U	1.0U	6.8	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA
June-01	1.0U	1.0U	3.8	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA
July-01	1.0U	1.0U	10	1.0U	1.0U	1.0U	0.32J	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA
September-01	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA
October-01	1.0U	1.0U	2.2	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA
November-01	1.0U	1.0U	1.3	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	1.0U
December-01	1.0U	1.0U	0.37	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	0.34	3.1
January-02	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	10U
February-02	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	10U
April-02	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	1.0U
May-02	1.0U	1.0U	3.2	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	1.0U
June-02	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	10U
July-02	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	10U

Table 6
Analytical Summary, Subdivision Irrigation Wells

108 Cottage Court																
Date	Tetrachloroethene	Trichloroethene	Cis -1,2-dichloroethene	Trans-1,2 dichloroethene	1,1-dichloroethene	1,1-dichloroethane	1,2-dichloroethane	Vinyl Chloride	Chloroethane	Benzene	Ethylbenzene	Toluene	Total xylenes	Chlorobenzene	1,4-dichlorobenzene	Naphthalene
August-02	1.0U	1.0U	4.2	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	10U
Criteria	5.0	5.0	70	100	7.0	1.0	5.0	2.0	1.0	5.0	700	1,000	10,000	1.0	75	20

Notes:
I = interference.
J = estimated value; analyte detected; value is between the method detection level (MDL) and the practical quantitation level (PQL).
U = compound was analyzed for but not detected to the level shown.
BOLD indicates result exceeds the groundwater protection standard.
B = possible blank contamination
E = estimated value
NA – Not analyzed

Table 6
Analytical Summary, Subdivision Irrigation Wells

122 Plantation Court																
Date	Tetrachloroethene	Trichloroethene	Cis -1,2-dichloroethene	Trans-1,2 dichloroethene	1,1-dichloroethene	1,1-dichloroethane	1,2-dichloroethane	Vinyl Chloride	Chloroethane	Benzene	Ethylbenzene	Toluene	Total xylenes	Chlorobenzene	1,4-dichlorobenzene	Naphthalene
January-00	1.0U	1.0U	2.0	1.0U	1.0U	1.0U	1.0U	**5.0**	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA
February-00	1.0U	1.0U	2.0	1.0U	1.0U	1.0U	1.0U	**8.0**	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA
March-00	1.0U	1.0U	2.0	1.0U	1.0U	1.0U	1.0U	**8.0**	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA
April-00	1.0U	1.0U	2.0	1.0U	1.0U	1.0U	1.0U	**6.0**	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA
May-00	1.0U	1.0U	3.0	1.0U	1.0U	1.0U	1.0U	**8.0**	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA
June-00	1.0U	1.0U	2.0	1.0U	1.0U	1.0U	1.0U	**7.0**	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA
July-00	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA
August-00	1.0U	2.0	2.0	1.0U	1.0U	1.0U	1.0U	**5.0**	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA
September-00	1.0U	1.0U	3.0	1.0U	1.0U	1.0U	1.0U	**5.0**	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA
October-00	1.0U	0.9J	2.0	1.0U	1.0U	1.0U	1.0U	**5.0**	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA
November-00	1.0U	0.93	2.0	1.0U	1.0U	1.0U	1.0U	**5.0**	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA
December-00	1.0U	2.0	1.0	1.0	1.0U	1.0U	1.0U	**4.0**	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA
January-01	1.0U	1.0U	2.0	1.0U	1.0U	1.0U	1.0U	**7.0**	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA
February-01	1.0U	1.0U	1.0	1.0U	1.0U	1.0U	1.0U	**4.0**	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA
February-01 (dup)	1.0U	1.0U	2.0	1.0U	1.0U	1.0U	1.0U	**6.0**	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA
March-01	1.0U	1.0U	1.0	1.0U	1.0U	1.0U	1.0U	**4.0E**	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA
March-01 (dup)	1.0U	1.0U	1.0	1.0U	1.0U	1.0U	1.0U	**4.0E**	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA
April-01	1.0U	1.0U	1.0	1.0U	1.0U	1.0U	1.0U	**5.0**	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA
April-01 (dup)	1.0U	1.0U	1.0	1.0U	1.0U	1.0U	1.0U	**5.0**	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA
May-01	1.0U	1.0U	0.1	1.0U	1.0U	1.0U	1.0U	**4.5**	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA

Table 6
Analytical Summary, Subdivision Irrigation Wells

122 Plantation Court																
Date	Tetrachloroethene	Trichloroethene	Cis -1,2-dichloroethene	Trans-1,2 dichloroethene	1,1-dichloroethene	1,1-dichloroethane	1,2-dichloroethane	Vinyl Chloride	Chloroethane	Benzene	Ethylbenzene	Toluene	Total xylenes	Chlorobenzene	1,4-dichlorobenzene	Naphthalene
May-01 (dup)	1.0U	1.0U	0.94J	1.0U	1.0U	1.0U	1.0U	**3.4**	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA
June-01	1.0U	1.0U	1.2	1.0U	1.0U	1.0U	1.0U	**4.8**	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	0.23J	NA
June-01 (dup)	1.0U	1.0U	0.95	1.0U	1.0U	1.0U	1.0U	**4.8**	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	0.21J	NA
July-01	1.0U	1.0U	1.0	1.0U	1.0U	1.0U	1.0U	**4.6**	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	0.26J	NA
July-01 (dup)	1.0U	1.0U	1.0	1.0U	1.0U	1.0U	1.0U	**4.6**	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	0.27J	NA
August-01	1.0U	1.0U	1.1	1.0U	1.0U	1.0U	1.0U	**4.7**	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	0.2	NA
August-01 (dup)	1.0U	1.0U	1.2	1.0U	1.0U	1.0U	1.0U	**4.7**	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	0.2	NA
September-01	1.0U	1.0U	1.2	1.0U	1.0U	1.0U	0.32J	**5.1**	1.0U	1.0U	1.0U	1.0U	0.24J	1.0U	0.31J	NA
September-01 (dup)	1.0U	1.0U	1.2	1.0U	1.0U	1.0U	1.0U	**5.1**	1.0U	1.0U	1.0U	1.0U	0.21J	1.0U	0.30J	NA
October-01	1.0U	1.0U	1.0	1.0U	1.0U	1.0U	1.0U	**5.6**	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	0.26J	NA
October-01 (dup)	1.0U	1.0U	1.1	1.0U	1.0U	1.0U	1.0U	**5.9**	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	0.27J	NA
November-01	1.0U	1.0U	1.0	1.0U	1.0U	1.0U	1.0U	**6.4**	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	0.29J	1.0U
November-01 (dup)	1.0U	1.0U	1.0	1.0U	1.0U	1.0U	1.0U	**6.4**	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	0.26J	1.0U
December-01	1.0U	1.0U	1.2	1.0U	1.0U	1.0U	1.0U	**5.8**	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	10.0
December-01 (dup)	1.0U	1.0U	1.2	1.0U	1.0U	1.0U	1.0U	**5.8**	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	0.38J	10.0
January-02	1.0U	1.0U	1.1	1.0U	1.0U	1.0U	1.0U	**7.4**	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	0.6	10U
January-02 (dup)	1.0U	1.0U	1.1	1.0U	1.0U	1.0U	1.0U	**7.0**	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	0.5	10U
February-02	1.0U	1.0U	1.1	1.0U	1.0U	1.0U	1.0U	**6.9**	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	0.34J	10U
February-02 (dup)	1.0U	1.0U	1.1	1.0U	1.0U	1.0U	1.0U	**6.8**	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	0.34JB	10U

Table 6
Analytical Summary, Subdivision Irrigation Wells

122 Plantation Court																
Date	Tetrachloroethene	Trichloroethene	Cis -1,2-dichloroethene	Trans-1,2 dichloroethene	1,1-dichloroethene	1,1-dichloroethane	1,2-dichloroethane	Vinyl Chloride	Chloroethane	Benzene	Ethylbenzene	Toluene	Total xylenes	Chlorobenzene	1,4-dichlorobenzene	Naphthalene
March-02	1.0U	1.0U	1.0	1.0U	1.0U	1.0U	1.0U	**6.3**	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	0.40J	10U
March-02 (dup)	1.0U	1.0U	1.0	1.0U	1.0U	1.0U	0.66J	**5.8**	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	0.42J	10U
April-02	1.0U	1.0U	0.95J	1.0U	1.0U	1.0U	1.0U	**5.4**	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	0.50J	3.1JB
April-02 (dup)	1.0U	1.0U	0.79J	1.0U	1.0U	1.0U	1.0U	**4.7**	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	0.48J	10U
June-02	1.0U	1.0U	0.60J	1.0U	1.0U	1.0U	0.38J	**4.0**	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	1.0U
June-02 (dup)	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	0.6	**3.9**	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	10.0U
July-02	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	**4.1**	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	10.U
July-02 (dup)	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	**4.6**	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	10.0U
August-02	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	**4.1**	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	10.0U
August-02 (dup)	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	**4.3**	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	10.0U
September-02	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	**4.3**	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	10.0U
September-02 (dup)	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	**2.7**	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	10.0U
October-02	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	**5.3**	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	10.0U
October-02 (dup)	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	**5.1**	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	10.0U
November-02	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	**4.7**	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	10.0U
December-02	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.7	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	1.0U
December-02 (Dup)	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	**2.3**	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	1.0U
January-03	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	**2.0**	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	1.0U
January-03 (dup)	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	**2.1**	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	1.0U

Table 6
Analytical Summary, Subdivision Irrigation Wells

122 Plantation Court																
Date	Tetrachloroethene	Trichloroethene	Cis -1,2-dichloroethene	Trans-1,2 dichloroethene	1,1-dichloroethene	1,1-dichloroethane	1,2-dichloroethane	Vinyl Chloride	Chloroethane	Benzene	Ethylbenzene	Toluene	Total xylenes	Chlorobenzene	1,4-dichlorobenzene	Naphthalene
February-03	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	2.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	2.0U
February-03(Dup)	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.2	2.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	2.0U
March-03	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	2.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	2.0U
March-03 (Dup)	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	2.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	2.0U
April-03	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	10U
April-03(Dup)	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	10U
June-03	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	10U
June-03(Dup)	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	10U
Criteria	5.0	5.0	70	100	7.0	1.0	5.0	2.0	1.0	5.0	700	1,000	10,000	1.0	75	20

Notes:
Irrigation well at 122 Plantation Court was replaced on March 21, 2003.
I = interference.
J = estimated value; analyte detected; value is between the method detection level (MDL) and the practical quantitation level (PQL).
U = compound was analyzed for but not detected to the level shown.
BOLD indicates result exceeds the groundwater protection standard.
B = possible blank contamination
E = estimated value
NA – Not analyzed

Table 6
Analytical Summary, Subdivision Irrigation Wells

102 Plantation Court

Date	Tetrachloroethene	Trichloroethene	Cis -1,2-dichloroethene	Trans-1,2 dichloroethene	1,1-dichloroethene	1,1-dichloroethane	1,2-dichloroethane	Vinyl Chloride	Chloroethane	Benzene	Ethylbenzene	Toluene	Total xylenes	Chlorobenzene	1,4-dichlorobenzene	Naphthalene
January-00	1.0U	**28**	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	NA
February-00	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	NA
March-00	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	NA
April-00	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	NA
May-00	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	NA
June-00	1.0U	1.OU	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	NA
July-00	1.0U	**8.0**	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	NA
August-00	1.0U	**37**	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	NA
September-00	1.0U	**150**	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	3.0U	NA
October-00	1.0U	4	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	3.0U	NA
November-00	1.0U	**8**	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	3.3J
December-00	1.0U	**17**	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	3.0U	10
January-01	1.0U	**86**	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA
February-01	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA
March-01	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA
April-01	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	0.10J	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA
May-01	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	0.10J	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA
June-01	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA
July-01	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA
August-01	1.0U	**9.9**	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA
August-01(dup)	1.6	**32**	**71**	6.4	0.44J	1.0U	1.0U	1.0U	0.43J	**22**	0.43J	0.56J	3.1	**1.4**	NA	NA
September-01	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA
October-01	1.0U	0.027J	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	NA
November-01	1.0U	0.53J	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	3.3J
December-01	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	10

Table 6
Analytical Summary, Subdivision Irrigation Wells

102 Plantation Court

Date	Tetrachloroethene	Trichloroethene	Cis -1,2-dichloroethene	Trans-1,2 dichloroethene	1,1-dichloroethene	1,1-dichloroethane	1,2-dichloroethane	Vinyl Chloride	Chloroethane	Benzene	Ethylbenzene	Toluene	Total xylenes	Chlorobenzene	1,4-dichlorobenzene	Naphthalene
March-02	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	1.0U
April-02	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	1.0U
May-02	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	1.0U
June-02	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	1.0U
July-02	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	10.0U
August-02	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	10.0U
September-02	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	10.0U
October-02	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	10.0U
November-02	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	10.0U
December-02	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	10.0U
January-03	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	10.0U
February-03	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	2.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	2.0U
March-03	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	2.0U
April-03	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	10U
June-03	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.0U	1.0U	1.0U	10U
Criteria	5.0	5.0	70	100	7.0	1.0	5.0	2.0	1.0	5.0	700	1,000	10,000	1.0	75	20

Notes:
I = interference.
J = estimated value; analyte detected; value is between the method detection level (MDL) and the practical quantitation level (PQL).
U = compound was analyzed for but not detected to the level shown.
BOLD indicates result exceeds the groundwater protection standard.
B = possible blank contamination
E = estimated value
NA – Not analyzed

APPENDIX A
WELL PURGING AND SAMPLING RECORDS

SAMPLING STATION

Well #	Station Type
KBA-11-11A	MONITORING WELL

SAMPLE

Sample ID	Sample Matrix	Sample Type	Collection Method	Date	Time	By
KBA-11-11A-MAY-03	WATER	GRAB	DRAW DOWN	5-6-03	0825	TB/mc

Instruments	Manufacturer/Mode	Serial No.	Date of Cal.	Calib.Due	Reference
pH/Eh	HORIBA U22	03827	5-1-03	CALIB. DAILY	AUTO CAL SOLUTION
Conductivity/Temp					
Dissolved Oxygen					
Turbidity					
Redox					

GROUND LEVEL DATA (before purging)

Well Variables

Depth of water = (TD - H) = h (ft) [H = depth to top of water]

Inside diam. Of casing = d(in.); 1/2(d) = r(in.)

$\frac{r(in.)}{12(in.)}$ = R (ft); [7.48 gal/ft 3 constant]

WELL PURGE INFORMATION

PURGE EQUIPMENT: GEO PUMP 2 S/N: N-0737 Purge method: DRAW DOWN Pump Type: PERISTALTIC

Prog Cyc	Date	Time	Temp (C)	pH	Eh	Units	Cond.	Units	Turb.	Units	D.O.	Units	Redox
2 GAL.	5-6-03	0830	21.7c	5.32	–	–	.129	S/cm	.5	NTU	3.97	G/L	-1mv
4 GAL.	5-6-03	0835	21.7c	5.50	–	–	.064	S/cm	7.1	NTU	4.25	G/L	-35mv
6 GAL.	5-6-03	0844	21.9c	5.54	–	–	.062	S/cm	8.3	NTU	3.42	G/L	-38mv
8 GAL.	5-6-03	0853	21.8c	5.56	–	–	.060	S/cm	13.1	NTU	3.59	G/L	-39mv

Well purged to dryness: [ ] Yes [✓] No

Recorded by:	Date:	Reviewed by:	Date:
Tommy BRYANT	5-6-03		

0900

WELL MEASUREMENTS

WELL NUMBER ID	DATE	TIME	MEASURE TO WATER	MEASURE TO BOTTOM	PHOTO VAC
KBA-11-11A	5-5-03	1013	7.77'	36.84'	0.0
"	5-5-03	1305	7.76'		

WEATHER CONDITIONS

WELL NUMBER ID	DATE	TIME	TEMPERATURE	HUMIDITY	BAR. PRESSEVE	SKY CONDITIONS
KBA-11-11A	5-5-03	1013	82°F	62%	29.97	sunny
"	5-5-03	1305	92°F	41%	29.94	sunny

SAMPLING STATION

Well #	Station Type
KBA-11-13A	MONITORING WELL

SAMPLE

Sample ID	Sample Matrix	Sample Type	Collection Method	Date	Time	By
KBA-11-13A-MAY-03	WATER	GRAB	DRAW DOWN	5-6-03	0930	TB/MC

Instruments	Manufacturer/Mode	Serial No.	Date of Cal.	Calib.Due	Reference
pH/Eh	HORIBA U22	03827	5-1-03	CALIB. DAILY	AUTO CAL. SOLUTION
Conductivity/Temp					
Dissolved Oxygen					
Turbidity					
Redox					

GROUND LEVEL DATA (before purging)

Well Variables

Depth of water = (TD - H) = h (ft) [H = depth to top of water]

Inside diam. Of casing = d(in.); 1/2(d) = r(in.)

$\frac{r(in.)}{12(in.)}$ = R (ft); [7.48 gal/ft 3 constant]

WELL PURGE INFORMATION

PURGE EQUIPMENT: GEO PUMP 2 S/N: N-0737 PURGE METHOD: DRAW DOWN Pump Type: PERISTALTIC

Proq Cyc	Date	Time	Temp (C)	pH	Cond.	Units	Turb.	Units	D.O.	Units	Redox
2 GAL	5-6-03	0938	23.3c	4.30	.842	S/cm	15.3	NTU	2.56	G/L	38 mv
4 GAL	5-6-03	0950	23.3c	4.34	1.20	S/cm	9.8	NTU	2.47	G/L	30 mv
6-GAL	5-6-03	1000	23.6c	4.31	1.24	S/cm	65.4	NTU	3.18	G/L	46 mv
8-GAL	5-6-03	1009	23.3c	4.27	1.24	S/cm	113	NTU	2.63	G/L	57 mv

Well purged to dryness: [ ] Yes [✓] No

Recorded by:	Date:	Reviewed by:	Date:
TOMMY BRYANT	5-6-03		

1020

WELL MEASUREMENTS

WELL NUMBER ID	DATE	TIME	MEASURE TO WATER	MEASURE TO BOTTOM	PHOTO VAC
KBA-11-13A	5-5-03	1118	7.66'	42.26	0.0
"	5-5-03	1350	7.66'		

WEATHER CONDITIONS

WELL NUMBER ID	DATE	TIME	TEMPERATURE	HUMIDITY	BAR. PRESSEVE	SKY CONDITIONS
KBA-11-13A	5-5-03	1118	90°F	33%	29.97	SUNNY
"	5-5-03	1350	92°F	35%	29.94	sunny

SAMPLING STATION

Well #	Station Type
KBA-11-16	MONITORING WELL

SAMPLE

Sample ID	Sample Matrix	Sample Type	Collection Method	Date	Time	By
KBA-11-16-MAY-03	WATER	GRAB	DRAW DOWN	5-7-03	0755	TB/MC

Instruments	Manufacturer/Mode	Serial No.	Date of Cal.	Calib.Due	Reference
pH/Eh	HORIBA U22	03827	5-1-03	CALIB. DAILY	AUTO CAL SOLUTION
Conductivity/Temp					
Dissolved Oxygen					
Turbidity					
Redox					

GROUND LEVEL DATA (before purging)

Well Variables

Depth of water = (TD - H) = h (ft) [H = depth to top of water]

Inside diam. Of casing = d(in.); 1/2(d) = r(in.)

$\frac{r(in.)}{12(in.)}$ = R (ft); [7.48 gal/ft 3 constant]

WELL PURGE INFORMATION

PURGE EQUIPMENT:	S/N:	Purge method:	Pump Type:
GEO Pump 2	N-0737	DRAW DOWN	PERISTALTIC

Prog Cyc	Date	Time	Temp (C)	pH	Eh	Units	Cond.	Units	Turb.	Units	D.O.	Units	Redo
2 GAL.	5-7-03	0807	23.4c	5.57	–	–	.222	S/cm	32.2	NTU	2.05	G/L	-113mv
4 GAL.	5-7-03	0817	23.4c	5.21	–	–	.333	S/cm	38.4	NTU	2.96	G/L	-137mv
6 GAL.	5-7-03	0827	23.5c	5.23	–	–	.359	S/cm	93.4	NTU	3.49	G/L	-160mv
8 GAL.	5-7-03	0837	23.5c	5.20	–	–	.369	S/cm	60.8	NTU	2.38	G/L	-170mv

Well purged to dryness: [ ] Yes [✓] No

Recorded by:	Date:	Reviewed by:	Date:
TOMMY BRYANT	5-7-03		

TIME: 0840

WELL MEASUREMENTS

WELL NUMBER ID	DATE	TIME	MEASURE TO WATER	MEASURE TO BOTTOM	PHOTO VAC
KBA-11-16	5-5-03	0850	3.45'	44.48	21.1 ppm
"	5-5-03	0950	3.45'		

WEATHER CONDITIONS

WELL NUMBER ID	DATE	TIME	TEMPERATURE	HUMIDITY	BAR. PRESSEVE	SKY CONDITIONS
KBA-11-16	5-5-03	0850	75°F	72%	29.97	sunny
"	5-5-03	0950	77°F	60%	29.97	sunny

SAMPLING STATION

Well #	Station Type
KBA-11-PS2	MONITORING WELL

SAMPLE

Sample ID	Sample Matrix	Sample Type	Collection Method	Date	Time	By
KBA-11-PS2-MAY-03	WATER	GRAB	DRAW DOWN	5-6-03	1050	TB/MC

Instruments	Manufacturer/Mode	Serial No.	Date of Cal.	Calib.Due	Reference
pH/Eh	HORIBA U22	03827	5-1-03	CALIB. DAILY	AUTO CAL SOLUTION
Conductivity/Temp	↓	↓		↓	↓
Dissolved Oxygen	↓	↓		↓	↓
Turbidity	↓	↓		↓	↓
Redox	↓	↓		↓	↓

GROUND LEVEL DATA (before purging)

Well Variables

Depth of water = (TD - H) = h (ft) [H = depth to top of water]

Inside diam. Of casing = d(in.); 1/2(d) = r(in.)

$\frac{r(in.)}{12(in.)}$ = R (ft); [7.48 gal/ft 3 constant]

WELL PURGE INFORMATION

PURGE EQUIPMENT: GEO Pump 2 S/N: M-0737 Purge method: DRAW DOWN Pump Type: PERISTALTIC

Prog Cyc	Date	Time	Temp (C)	pH	Eh	Units	Cond.	Units	Turb.	Units	D.O.	Units	Redo
2 GAL	5-6-03	1058	22.3c	5.23	-	-	.385	S/cm	15.2	NTU	.47	G/L	-99mv
4 GAL	5-6-03	1107	22.3c	5.25	-	-	.384	S/cm	128	NTU	1.75	G/L	-118mv
6 GAL	5-6-03	1117	22.2c	5.19	-	-	.379	S/cm	429	NTU	.86	G/L	-131mv
8 GAL	5-6-03	1127	22.2c	5.23	-	-	.382	S/cm	254	NTU	.99	G/L	-138mv

Well purged to dryness: [ ] Yes [✓] No

Recorded by:	Date:	Reviewed by:	Date:
TOMMY BRYANT	5-6-03		

COLL: 1130

WELL MEASUREMENTS

WELL NUMBER ID	DATE	TIME	MEASURE TO WATER	MEASURE TO BOTTOM	PHOTO VAC
KBA-11-PS2	5-5-03	1045	6.22'	37.15	0.0
	5-5-03	1325	6.22'		

WEATHER CONDITIONS

WELL NUMBER ID	DATE	TIME	TEMPERATURE	HUMIDITY	BAR. PRESSEVE	SKY CONDITIONS
KBA-11-PS2	5-5-03	1045	88°F	56%	29.97	sunny
"	5-5-03	1325	92°F	41%	29.94	sunny

SAMPLING STATION

Well #	Station Type
KBA-11-37	MONITORING WELL

SAMPLE

Sample ID	Sample Matrix	Sample Type	Collection Method	Date	Time	By
KBA-11-37-MAY-03	WATER	GRAB	DRAW DOWN	5-7-03	0850	TB/MC

Instruments	Manufacturer/Mode	Serial No.	Date of Cal.	Calib.Due	Reference
pH/Eh	HORIBA U22	03827	5-1-03	CALIB. DAILY	AUTO CAL. SOLUTION
Conductivity/Temp	↓	↓	↓	↓	↓
Dissolved Oxygen					
Turbidity					
Redox	↓	↓	↓	↓	↓

GROUND LEVEL DATA (before purging)

Well Variables

Depth of water = (TD - H) = h (ft) [H = depth to top of water]

Inside diam. Of casing = d(in.); 1/2(d) = r(in.)

$\frac{r(in.)}{12(in.)}$ = R (ft); [7.48 gal/ft 3 constant]

WELL PURGE INFORMATION

PURGE EQUIPMENT: GEO PUMP 2 S/N: N-0737 Purge method: DRAW DOWN Pump Type: PERISTALTIC

Prog Cyc	Date	Time	Temp (C)	pH	Eh	Units	Cond.	Units	Turb.	Units	D.O.	Units	Redo
2 GAL.	5-7-03	0900	23.6c	5.45	-	-	.230	S/cm	29.3	NTU	2.79	G/L	-121mv
4 GAL.	5-7-03	0911	23.6c	5.57	-	-	.316	S/cm	46.8	NTU	.67	G/L	-158mv
6 GAL.	5-7-03	0922	23.6c	5.61	-	-	.344	S/cm	185	NTU	1.15	G/L	-160mv
8 GAL	5-7-03	0932	23.6c	5.52	-	-	.372	S/cm	46.2	NTU	1.50	G/L	-150mv

Well purged to dryness: [ ] Yes [X] No

Recorded by:	Date:	Reviewed by:	Date:
TOMMY BRYANT	5-7-03		

TIME: 0935

WELL MEASUREMENTS

WELL NUMBER ID	DATE	TIME	MEASURE TO WATER	MEASURE TO BOTTOM	PHOTO VAC
KBA-11-37	5-5-03	0825	1.95'	38.20'	11.7 ppm
KBA-11-37	5-5-03	0935	1.95'		

WEATHER CONDITIONS

WELL NUMBER ID	DATE	TIME	TEMPERATURE	HUMIDITY	BAR. PRESSEVE	SKY CONDITIONS
KBA-11-37	5-5-03	0825	75°F	87%	29.97	sunny
	5-5-03	0935	76°F	60%	29.97	sunny

SAMPLING STATION

Well #	Station Type
KBA-11-34	MONITORING WELL

SAMPLE

Sample ID	Sample Matrix	Sample Type	Collection Method	Date	Time	By
KBA-11-34-MAY-03	WATER	GRAB	DRAW DOWN	5-6-03	1300	TB/MC

Instruments	Manufacturer/Mode	Serial No.	Date of Cal.	Calib.Due	Reference
pH/Eh	HORIBA U22	03827	5-1-03	CALIB. DAILY	AUTO CAL SOLUTION
Conductivity/Temp	↓	↓	↓	↓	↓
Dissolved Oxygen					
Turbidity					
Redox	↓	↓	↓	↓	↓

GROUND LEVEL DATA (before purging)

Well Variables

Depth of water = (TD - H) = h (ft) [H = depth to top of water]

Inside diam. Of casing = d(in.); 1/2(d) = r(in.)

$\frac{r(in.)}{12(in.)}$ = R (ft); [7.48 gal/ft 3 constant]

WELL PURGE INFORMATION

PURGE EQUIPMENT:	S/N:	Purge method:	Pump Type:
GEO Pump 2	N-0737	DRAW DOWN	PERISTALTIC

Prog Cyc	Date	Time	Temp (C)	pH	Eh	Units	Cond.	Units	Turb.	Units	D.O.	Units	Redox
2 GAL	5-6-03	1307	25.7c	3.94	-	-	.788	S/cm	18.9	NTU	1.28	G/L	231 mv
4 GAL	5-6-03	1317	26.1c	3.90	-	-	.786	S/cm	95.3	NTU	1.40	G/L	215 mv
6 GAL	5-6-03	1317	25.7c	3.84	-	-	.808	S/cm	145	NTU	3.67	G/L	186 mv
8 GAL	5-6-03	1337	26.3c	3.97	-	-	.898	S/cm	36.3	NTU	.70	G/L	210 mv

Well purged to dryness: [ ] Yes [✓] No

Recorded by:	Date:	Reviewed by:	Date:
TOMMY BRYANT	5-6-03		

1345

WELL MEASUREMENTS

WELL NUMBER ID	DATE	TIME	MEASURE TO WATER	MEASURE TO BOTTOM	PHOTO VAC
KBA-11-34	5-5-03	1100	10.37'	40.75'	0.0
"	5-5-03	1335	10.37'		

WEATHER CONDITIONS

WELL NUMBER ID	DATE	TIME	TEMPERATURE	HUMIDITY	BAR. PRESSEVE	SKY CONDITIONS
KBA-11-34	5-5-03	1100	89°F	43%	29.97	sunny
"	5-5-03	1335	92°F	40%	29.94	sunny

SAMPLING STATION

Well #	Station Type

SAMPLE

Sample ID	Sample Matrix	Sample Type	Collection Method	Date	Time	By

Instruments	Manufacturer/Mode	Serial No.	Date of Cal.	Calib.Due	Reference
pH/Eh					
Conductivity/Temp					
Dissolved Oxygen					
Turbidity					
Redox					

GROUND LEVEL DATA (before purging)

Well Variables

Depth of water = (TD - H) = h (ft) [H = depth to top of water]

Inside diam. Of casing = d(in.); 1/2(d) = r(in.)

$$\frac{r(in.)}{12(in.)} = R\ (ft);\ [7.48\ gal/ft\ 3\ constant]$$

WELL PURGE INFORMATION

PURGE EQUIPMENT:	S/N:	Purge method:	Pump Type:

Prog Cyc	Date	Time	Temp (C)	pH	Eh	Units	Cond.	Units	Turb.	Units	D.O.	Units	Redo

Well purged to dryness: [ ] Yes [ ] No

Recorded by:	Date:	Reviewed by:	Date:

WELL MEASUREMENTS

WELL NUMBER ID	DATE	TIME	MEASURE TO WATER	MEASURE TO BOTTOM	PHOTO VAC
KBA-11-PS9	5-5-03	0755	2.83'	34.15'	8.7 ppm
	5-5-03	0920	2.83'		

WEATHER CONDITIONS

WELL NUMBER ID	DATE	TIME	TEMPERATURE	HUMIDITY	BAR. PRESSEVE	SKY CONDITIONS
	5-5-03	0755	72°F	89%	29.97	CLOUDY
	5-5-03	0920	76°F	65%	29.97	SUNNY

SAMPLING STATION

Well #	Station Type

SAMPLE

Sample ID	Sample Matrix	Sample Type	Collection Method	Date	Time	By

Instruments	Manufacturer/Mode	Serial No.	Date of Cal.	Calib.Due	Reference
pH/Eh					
Conductivity/Temp					
Dissolved Oxygen					
Turbidity					
Redox					

GROUND LEVEL DATA (before purging)

Well Variables

Depth of water = (TD - H) = h (ft) [H = depth to top of water]

Inside diam. Of casing = d(in.); 1/2(d) = r(in.)

$$\frac{r(in.)}{12(in.)} = R\ (ft);\ [7.48\ gal/ft\ 3\ constant]$$

WELL PURGE INFORMATION

PURGE EQUIPMENT:	S/N:	Purge method:	Pump Type:

Prog Cyc	Date	Time	Temp (C)	pH	Eh	Units	Cond.	Units	Turb.	Units	D.O.	Units	Redo

Well purged to dryness: [ ] Yes [ ] No

Recorded by:	Date:	Reviewed by:	Date:

WELL MEASUREMENTS

WELL NUMBER ID	DATE	TIME	MEASURE TO WATER	MEASURE TO BOTTOM	PHOTO VAC
KBA-11-02	5-5-03	1038	7.56'	11.0'	0.0
	5-5-03	1320	7.55'		

WEATHER CONDITIONS

WELL NUMBER ID	DATE	TIME	TEMPERATURE	HUMIDITY	BAR. PRESSEVE	SKY CONDITIONS
KBA-11-02	5-5-03	1038	88°F	50%	29.97	Sunny
	5-5-03	1320	92°F	42%	29.94	Sunny

TOC 36.02
7.65
28.37

36.02
7.55
28.47

SAMPLING STATION

Well #	Station Type

SAMPLE

Sample ID	Sample Matrix	Sample Type	Collection Method	Date	Time	By

Instruments	Manufacturer/Mode	Serial No.	Date of Cal.	Calib.Due	Reference
pH/Eh					
Conductivity/Temp					
Dissolved Oxygen					
Turbidity					
Redox					

GROUND LEVEL DATA (before purging)

Well Variables

Depth of water = (TD - H) = h (ft) [H = depth to top of water]

Inside diam. Of casing = d(in.); 1/2(d) = r(in.)

$$\frac{r(in.)}{12(in.)} = R\ (ft);\ [7.48\ gal/ft\ 3\ constant]$$

WELL PURGE INFORMATION

PURGE EQUIPMENT:	S/N:	Purge method:	Pump Type:

Prog Cyc	Date	Time	Temp (C)	pH	Eh	Units	Cond.	Units	Turb.	Units	D.O.	Units	Redo

Well purged to dryness: [ ] Yes [ ] No

Recorded by:	Date:	Reviewed by:	Date:

WELL MEASUREMENTS

WELL NUMBER ID	DATE	TIME	MEASURE TO WATER	MEASURE TO BOTTOM	PHOTO VAC
KBA-11-3B	5-5-03	1022	7.0'	47.50	0.0
"	5-5-03	1310	7.0'		

WEATHER CONDITIONS

WELL NUMBER ID	DATE	TIME	TEMPERATURE	HUMIDITY	BAR. PRESSEVE	SKY CONDITIONS
KBA-11-3B	5-5-03	1022	84°F	65%	29.94	Sunny
"	5-5-03	1310	92°F	45%	29.94	Sunny

SAMPLING STATION

Well #	Station Type

SAMPLE

Sample ID	Sample Matrix	Sample Type	Collection Method	Date	Time	By

Instruments	Manufacturer/Mode	Serial No.	Date of Cal.	Calib.Due	Reference
pH/Eh					
Conductivity/Temp					
Dissolved Oxygen					
Turbidity					
Redox					

GROUND LEVEL DATA (before purging)

Well Variables

Depth of water = (TD - H) = h (ft) [H = depth to top of water]

Inside diam. Of casing = d(in.); 1/2(d) = r(in.)

$$\frac{r(in.)}{12(in.)} = R\ (ft);\ [7.48\ gal/ft\ 3\ constant]$$

WELL PURGE INFORMATION

PURGE EQUIPMENT:	S/N:	Purge method:	Pump Type:

Prog Cyc	Date	Time	Temp (C)	pH	Eh	Units	Cond.	Units	Turb.	Units	D.O.	Units	Redo

Well purged to dryness: [ ] Yes [ ] No

Recorded by:	Date:	Reviewed by:	Date:

WELL MEASUREMENTS

WELL NUMBER ID	DATE	TIME	MEASURE TO WATER	MEASURE TO BOTTOM	PHOTO VAC
KBA-11-8B	5-5-03	1007	10.37'	43.50'	0.0
"	5-5-03	1300	10.37'		

WEATHER CONDITIONS

WELL NUMBER ID	DATE	TIME	TEMPERATURE	HUMIDITY	BAR. PRESSEVE	SKY CONDITIONS
KBA-11-8B	5-5-03	1007	80°F	62%	29.97	sunny
"	5-5-03	1300	92°F	40%	29.94	sunny

SAMPLING STATION

Well #	Station Type

SAMPLE

Sample ID	Sample Matrix	Sample Type	Collection Method	Date	Time	By

Instruments	Manufacturer/Mode	Serial No.	Date of Cal.	Calib.Due	Reference
pH/Eh					
Conductivity/Temp					
Dissolved Oxygen					
Turbidity					
Redox					

GROUND LEVEL DATA (before purging)

Well Variables

Depth of water = (TD - H) = h (ft) [H = depth to top of water]

Inside diam. Of casing = d(in.); 1/2(d) = r(in.)

$$\frac{r(in.)}{12(in.)} = R\ (ft);\ [7.48\ gal/ft\ 3\ constant]$$

WELL PURGE INFORMATION

PURGE EQUIPMENT:	S/N:	Purge method:	Pump Type:

Prog Cyc	Date	Time	Temp (C)	pH	Eh	Units	Cond.	Units	Turb.	Units	D.O.	Units	Redo

Well purged to dryness: [ ] Yes [ ] No

Recorded by:	Date:	Reviewed by:	Date:

WELL MEASUREMENTS

WELL NUMBER ID	DATE	TIME	MEASURE TO WATER	MEASURE TO BOTTOM	PHOTO VAC
KBA-11-10B	5-5-03	1053	10.47'	51.35'	0.0
	5-5-03	1330	10.46'		

WEATHER CONDITIONS

WELL NUMBER ID	DATE	TIME	TEMPERATURE	HUMIDITY	BAR. PRESSEVE	SKY CONDITIONS
KBA-11-10B	5-5-03	1053	89°F	53%	29.97	Sunny
	5-5-03	1330	92°F	42%	29.94	Sunny

SAMPLING STATION

Well #	Station Type

SAMPLE

Sample ID	Sample Matrix	Sample Type	Collection Method	Date	Time	By

Instruments	Manufacturer/Mode	Serial No.	Date of Cal.	Calib.Due	Reference
pH/Eh					
Conductivity/Temp					
Dissolved Oxygen					
Turbidity					
Redox					

GROUND LEVEL DATA (before purging)

Well Variables

Depth of water = (TD - H) = h (ft) [H = depth to top of water]

Inside diam. Of casing = d(in.); 1/2(d) = r(in.)

$$\frac{r(in.)}{12(in.)} = R\ (ft);\ [7.48\ gal/ft\ 3\ constant]$$

WELL PURGE INFORMATION

PURGE EQUIPMENT:	S/N:	Purge method:	Pump Type:

Prog Cyc	Date	Time	Temp (C)	pH	Eh	Units	Cond.	Units	Turb.	Units	D.O.	Units	Redox

Well purged to dryness: [ ] Yes [ ] No

Recorded by:	Date:	Reviewed by:	Date:

WELL MEASUREMENTS

WELL NUMBER ID	DATE	TIME	MEASURE TO WATER	MEASURE TO BOTTOM	PHOTO VAC
KBA-11-36	5-5-03	1105	11.0'	41.36'	0,D
"	5-5-03	1340	11.0'		

WEATHER CONDITIONS

WELL NUMBER ID	DATE	TIME	TEMPERATURE	HUMIDITY	BAR. PRESSEVE	SKY CONDITIONS
KBA-11-36	5-5-03	1105	89° F	43%	29.97	Sunny
"	5-5-03	1340	92°F	38%	29.94	Sunny

SAMPLING STATION

Well #	Station Type

SAMPLE

Sample ID	Sample Matrix	Sample Type	Collection Method	Date	Time	By

Instruments	Manufacturer/Mode	Serial No.	Date of Cal.	Calib.Due	Reference
pH/Eh					
Conductivity/Temp					
Dissolved Oxygen					
Turbidity					
Redox					

GROUND LEVEL DATA (before purging)

Well Variables

Depth of water = (TD - H) = h (ft) [H = depth to top of water]

Inside diam. Of casing = d(in.); 1/2(d) = r(in.)

$$\frac{r(in.)}{12(in.)} = R\ (ft);\ [7.48\ gal/ft\ 3\ constant]$$

WELL PURGE INFORMATION

PURGE EQUIPMENT:	S/N:	Purge method:	Pump Type:

Prog Cyc	Date	Time	Temp (C)	pH	Eh	Units	Cond.	Units	Turb.	Units	D.O.	Units	Redo

Well purged to dryness: [ ] Yes [ ] No

Recorded by:	Date:	Reviewed by:	Date:

WELL MEASUREMENTS

WELL NUMBER ID	DATE	TIME	MEASURE TO WATER	MEASURE TO BOTTOM	PHOTO VAC
KBA-11-22B	5-5-03	1030	8.45'	52.28'	0.0
KBA-11-22B	5-5-03	1315	8.45'		

WEATHER CONDITIONS

WELL NUMBER ID	DATE	TIME	TEMPERATURE	HUMIDITY	BAR. PRESSEVE	SKY CONDITIONS
KBA-11-22B	5-5-03	1030	84°F	62%	29.94	sunny
"	5-5-03	1315	92°F	42%	29.94	sunny

SAMPLING STATION

Well #	Station Type

SAMPLE

Sample ID	Sample Matrix	Sample Type	Collection Method	Date	Time	By

Instruments	Manufacturer/Mode	Serial No.	Date of Cal.	Calib.Due	Reference
pH/Eh					
Conductivity/Temp					
Dissolved Oxygen					
Turbidity					
Redox					

GROUND LEVEL DATA (before purging)

Well Variables

Depth of water = (TD - H) = h (ft) [H = depth to top of water]

Inside diam. Of casing = d(in.); 1/2(d) = r(in.)

$$\frac{r(in.)}{12(in.)} = R\ (ft);\ [7.48\ gal/ft\ 3\ constant]$$

WELL PURGE INFORMATION

PURGE EQUIPMENT:	S/N:	Purge method:	Pump Type:

Prog Cyc	Date	Time	Temp (C)	pH	Eh	Units	Cond.	Units	Turb.	Units	D.O.	Units	Redo

Well purged to dryness: [ ] Yes [ ] No

Recorded by:	Date:	Reviewed by:	Date:

WELL MEASUREMENTS

WELL NUMBER ID	DATE	TIME	MEASURE TO WATER	MEASURE TO BOTTOM	PHOTO VAC
KBA-11-21	5-5-03	0806	1.95'	40.29'	8.6 ppm
	5-5-03	0925	1.94'		

WEATHER CONDITIONS

WELL NUMBER ID	DATE	TIME	TEMPERATURE	HUMIDITY	BAR. PRESSEVE	SKY CONDITIONS
KBA-11-21	5-5-03	0806	74°F	90%	29.97	PARTLY CLOUDY
KBA-11-21	5-5-03	0925	76°F	65%	29.97	SUNNY

SAMPLING STATION

Well #	Station Type

SAMPLE

Sample ID	Sample Matrix	Sample Type	Collection Method	Date	Time	By

Instruments	Manufacturer/Mode	Serial No.	Date of Cal.	Calib.Due	Reference
pH/Eh					
Conductivity/Temp					
Dissolved Oxygen					
Turbidity					
Redox					

GROUND LEVEL DATA (before purging)

Well Variables

Depth of water = (TD - H) = h (ft) [H = depth to top of water]

Inside diam. Of casing = d(in.); 1/2(d) = r(in.)

$$\frac{r(in.)}{12(in.)} = R\ (ft);\ [7.48\ gal/ft\ 3\ constant]$$

WELL PURGE INFORMATION

PURGE EQUIPMENT:	S/N:	Purge method:	Pump Type:

Prog Cyc	Date	Time	Temp (C)	pH	Eh	Units	Cond.	Units	Turb.	Units	D.O.	Units	Redo

Well purged to dryness: [ ] Yes [ ] No

Recorded by:	Date:	Reviewed by:	Date:

WELL MEASUREMENTS

WELL NUMBER ID	DATE	TIME	MEASURE TO WATER	MEASURE TO BOTTOM	PHOTO VAC
KBA-11-20	5-5-03	0815	1.16'	39.86'	9.6 ppm
	5-5-03	0930	1.16'		

WEATHER CONDITIONS

WELL NUMBER ID	DATE	TIME	TEMPERATURE	HUMIDITY	BAR. PRESSEVE	SKY CONDITIONS
KBA-11-20	5-5-03	0815	74 °F	89%	29.97	mostly sunny
	5-5-03	0930	76 °F	65%	29.97	sunny

SAMPLING STATION

Well #	Station Type

SAMPLE

Sample ID	Sample Matrix	Sample Type	Collection Method	Date	Time	By

Instruments	Manufacturer/Mode	Serial No.	Date of Cal.	Calib.Due	Reference
pH/Eh					
Conductivity/Temp					
Dissolved Oxygen					
Turbidity					
Redox					

GROUND LEVEL DATA (before purging)

Well Variables

Depth of water = (TD - H) = h (ft) [H = depth to top of water]

Inside diam. Of casing = d(in.); 1/2(d) = r(in.)

$$\frac{r(in.)}{12(in.)} = R\ (ft);\ [7.48\ gal/ft\ 3\ constant]$$

WELL PURGE INFORMATION

PURGE EQUIPMENT:	S/N:	Purge method:	Pump Type:

Prog Cyc	Date	Time	Temp (C)	pH	Eh	Units	Cond.	Units	Turb.	Units	D.O.	Units	Redo

Well purged to dryness: [ ] Yes [ ] No

Recorded by:	Date:	Reviewed by:	Date:

WELL MEASUREMENTS

WELL NUMBER ID	DATE	TIME	MEASURE TO WATER	MEASURE TO BOTTOM	PHOTO VAC
KBA-11-18	5-5-03	0832	1.55	45.50'	6.6 ppm
"	5-5-03	0940	1.54		

WEATHER CONDITIONS

WELL NUMBER ID	DATE	TIME	TEMPERATURE	HUMIDITY	BAR. PRESSEVE	SKY CONDITIONS
KBA-11-18	5-5-03	0832	75°F	86%	29.97	Sunny
"	5-5-03	0940	77°F	58%	29.97	Sunny

SAMPLING STATION

Well #	Station Type

SAMPLE

Sample ID	Sample Matrix	Sample Type	Collection Method	Date	Time	By

Instruments	Manufacturer/Mode	Serial No.	Date of Cal.	Calib.Due	Reference
pH/Eh					
Conductivity/Temp					
Dissolved Oxygen					
Turbidity					
Redox					

GROUND LEVEL DATA (before purging)

Well Variables

Depth of water = (TD - H) = h (ft) [H = depth to top of water]

Inside diam. Of casing = d(in.); 1/2(d) = r(in.)

$$\frac{r(in.)}{12(in.)} = R\ (ft);\ [7.48\ gal/ft\ 3\ constant]$$

WELL PURGE INFORMATION

PURGE EQUIPMENT:	S/N:	Purge method:	Pump Type:

Prog Cyc	Date	Time	Temp (C)	pH	Eh	Units	Cond.	Units	Turb.	Units	D.O.	Units	Redo

Well purged to dryness: [ ] Yes [ ] No

Recorded by:	Date:	Reviewed by:	Date:

WELL MEASUREMENTS

WELL NUMBER ID	DATE	TIME	MEASURE TO WATER	MEASURE TO BOTTOM	PHOTO VAC
KBA-11-17B	5-5-03	0840	2.20'	44.41'	16.9 ppm
"	5-5-03	0945	2.21'		

WEATHER CONDITIONS

WELL NUMBER ID	DATE	TIME	TEMPERATURE	HUMIDITY	BAR. PRESSEVE	SKY CONDITIONS
KBA-11-17B	5-5-03	0840	75°F	81%	29.97	SUNNY
"	5-5-03	0945	77°F	60%	29.97	SUNNY

SAMPLING STATION

Well #	Station Type

SAMPLE

Sample ID	Sample Matrix	Sample Type	Collection Method	Date	Time	By

Instruments	Manufacturer/Mode	Serial No.	Date of Cal.	Calib.Due	Reference
pH/Eh					
Conductivity/Temp					
Dissolved Oxygen					
Turbidity					
Redox					

GROUND LEVEL DATA (before purging)

Well Variables

Depth of water = (TD - H) = h (ft) [H = depth to top of water]

Inside diam. Of casing = d(in.); 1/2(d) = r(in.)

$$\frac{r(in.)}{12(in.)} = R\ (ft);\ [7.48\ gal/ft\ 3\ constant]$$

WELL PURGE INFORMATION

PURGE EQUIPMENT:	S/N:	Purge method:	Pump Type:

Prog Cyc	Date	Time	Temp (C)	pH	Eh	Units	Cond.	Units	Turb.	Units	D.O.	Units	Redox

Well purged to dryness: [ ] Yes [ ] No

Recorded by:	Date:	Reviewed by:	Date:

WELL MEASUREMENTS

WELL NUMBER ID	DATE	TIME	MEASURE TO WATER	MEASURE TO BOTTOM	PHOTO VAC
KBA-11-13B	5-5-03	1112	11.92'	90.50'	0.0
"	5-5-03	1345	11.91'		

WEATHER CONDITIONS

WELL NUMBER ID	DATE	TIME	TEMPERATURE	HUMIDITY	BAR. PRESSEVE	SKY CONDITIONS
KBA-11-13B	5-5-03	1112	90°F	40%	29.97	Sunny
"	5-5-03	1345	92°F	38%	29.94	Sunny

SAMPLING STATION

Well #	Station Type

SAMPLE

Sample ID	Sample Matrix	Sample Type	Collection Method	Date	Time	By

Instruments	Manufacturer/Mode	Serial No.	Date of Cal.	Calib.Due	Reference
pH/Eh					
Conductivity/Temp					
Dissolved Oxygen					
Turbidity					
Redox					

GROUND LEVEL DATA (before purging)

Well Variables

Depth of water = (TD - H) = h (ft) [H = depth to top of water]

Inside diam. Of casing = d(in.); 1/2(d) = r(in.)

$$\frac{r(in.)}{12(in.)} = R\ (ft);\ [7.48\ gal/ft\ 3\ constant\}$$

WELL PURGE INFORMATION

PURGE EQUIPMENT:	S/N:	Purge method:	Pump Type:

Prog Cyc	Date	Time	Temp (C)	pH	Eh	Units	Cond.	Units	Turb.	Units	D.O.	Units	Redox

Well purged to dryness: [ ] Yes [ ] No

Recorded by:	Date:	Reviewed by:	Date:

WELL MEASUREMENTS

WELL NUMBER ID	DATE	TIME	MEASURE TO WATER	MEASURE TO BOTTOM	PHOTO VAC
KBA-11-15	5-5-03	07:45	2.69'	38.90'	9.5 p.
	5-5-03	0915	2.69'		

WEATHER CONDITIONS

WELL NUMBER ID	DATE	TIME	TEMPERATURE	HUMIDITY	BAR. PRESSEVE	SKY CONDITIONS
KBA-11-15	5-5-03	0745	72.° F	85%	29.97	Partly Cloudy
11	5-5-03	0915	76°F	66%	29.97	Sunny

APPENDIX B
ANALYTICAL REPORTS

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	JA Jones Management Services	**Service Request:**	J2300871
Project:	NSB Kings Bay/Site 11	**Date Collected:**	05/06/2003
Sample Matrix:	Water	**Date Received:**	05/08/2003

Volatile Organic Compounds by GC/MS (Appendix IX)

Sample Name:	KBA-11-11A-MAY-03	**Units:**	ug/L
Lab Code:	J2300871-001	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	5.0	0.32	1	05/08/03	05/08/03	JWG0300686	
Chloromethane	ND	U	1.0	0.22	1	05/08/03	05/08/03	JWG0300686	
Vinyl Chloride	ND	U	1.0	0.30	1	05/08/03	05/08/03	JWG0300686	
Bromomethane	ND	U	1.0	0.45	1	05/08/03	05/08/03	JWG0300686	
Chloroethane	ND	U	1.0	0.31	1	05/08/03	05/08/03	JWG0300686	
Trichlorofluoromethane	ND	U	1.0	0.22	1	05/08/03	05/08/03	JWG0300686	
Acrolein†	ND	U	100	41	1	05/08/03	05/08/03	JWG0300686	
1,1-Dichloroethene	ND	U	1.0	0.51	1	05/08/03	05/08/03	JWG0300686	
Acetone	ND	U	50	8.0	1	05/08/03	05/08/03	JWG0300686	
Iodomethane (Methyl Iodide)	ND	U	5.0	0.91	1	05/08/03	05/08/03	JWG0300686	
Carbon Disulfide	ND	U	10	2.0	1	05/08/03	05/08/03	JWG0300686	
Acetonitrile	ND	U	25	3.9	1	05/08/03	05/08/03	JWG0300686	
Allyl Chloride	ND	U	5.0	1.0	1	05/08/03	05/08/03	JWG0300686	
Methylene Chloride	ND	U	5.0	0.37	1	05/08/03	05/08/03	JWG0300686	
Acrylonitrile	ND	U	10	3.2	1	05/08/03	05/08/03	JWG0300686	
trans-1,2-Dichloroethene	ND	U	1.0	0.22	1	05/08/03	05/08/03	JWG0300686	
1,1-Dichloroethane	ND	U	1.0	0.42	1	05/08/03	05/08/03	JWG0300686	
Vinyl Acetate	ND	U	10	3.0	1	05/08/03	05/08/03	JWG0300686	
cis-1,2-Dichloroethene	ND	U	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
Chloroprene	ND	U	1.0	0.45	1	05/08/03	05/08/03	JWG0300686	
2-Butanone (MEK)	ND	U	10	3.4	1	05/08/03	05/08/03	JWG0300686	
Propionitrile	ND	U	10	4.8	1	05/08/03	05/08/03	JWG0300686	
Methacrylonitrile	ND	U	2.0	0.45	1	05/08/03	05/08/03	JWG0300686	
Chloroform	ND	U	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.38	1	05/08/03	05/08/03	JWG0300686	
Carbon Tetrachloride	ND	U	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
Benzene	ND	U	1.0	0.30	1	05/08/03	05/08/03	JWG0300686	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.27	1	05/08/03	05/08/03	JWG0300686	
Isobutyl Alcohol	ND	U	50	26	1	05/08/03	05/08/03	JWG0300686	
Trichloroethene (TCE)	ND	U	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
1,2-Dichloropropane	ND	U	1.0	0.28	1	05/08/03	05/08/03	JWG0300686	
Dibromomethane	ND	U	1.0	0.48	1	05/08/03	05/08/03	JWG0300686	
Methyl Methacrylate	ND	U	1.0	0.44	1	05/08/03	05/08/03	JWG0300686	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	JA Jones Management Services	**Service Request:**	J2300871
Project:	NSB Kings Bay/Site 11	**Date Collected:**	05/06/2003
Sample Matrix:	Water	**Date Received:**	05/08/2003

Volatile Organic Compounds by GC/MS (Appendix IX)

Sample Name:	KBA-11-11A-MAY-03	**Units:**	ug/L
Lab Code:	J2300871-001	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,4-Dioxane	ND	U	100	67	1	05/08/03	05/08/03	JWG0300686	
Bromodichloromethane	ND	U	1.0	0.27	1	05/08/03	05/08/03	JWG0300686	
cis-1,3-Dichloropropene	ND	U	1.0	0.36	1	05/08/03	05/08/03	JWG0300686	
4-Methyl-2-pentanone (MIBK)	ND	U	25	3.0	1	05/08/03	05/08/03	JWG0300686	
Toluene	ND	U	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
trans-1,3-Dichloropropene	ND	U	1.0	0.28	1	05/08/03	05/08/03	JWG0300686	
Ethyl Methacrylate	ND	U	1.0	0.37	1	05/08/03	05/08/03	JWG0300686	
1,1,2-Trichloroethane	ND	U	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
Tetrachloroethene (PCE)	ND	U	1.0	0.34	1	05/08/03	05/08/03	JWG0300686	
2-Hexanone	ND	U	25	0.56	1	05/08/03	05/08/03	JWG0300686	
Dibromochloromethane	ND	U	1.0	0.36	1	05/08/03	05/08/03	JWG0300686	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.24	1	05/08/03	05/08/03	JWG0300686	
Chlorobenzene	ND	U	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.34	1	05/08/03	05/08/03	JWG0300686	
Ethylbenzene	ND	U	1.0	0.31	1	05/08/03	05/08/03	JWG0300686	
m,p-Xylenes	ND	U	2.0	0.72	1	05/08/03	05/08/03	JWG0300686	
o-Xylene	ND	U	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
Styrene	ND	U	1.0	0.25	1	05/08/03	05/08/03	JWG0300686	
Bromoform	ND	U	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.41	1	05/08/03	05/08/03	JWG0300686	
1,2,3-Trichloropropane	ND	U	1.0	0.49	1	05/08/03	05/08/03	JWG0300686	
trans-1,4-Dichloro-2-butene	ND	U	20	0.44	1	05/08/03	05/08/03	JWG0300686	
1,3-Dichlorobenzene	ND	U	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
1,4-Dichlorobenzene	ND	U	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
1,2-Dichlorobenzene	ND	U	1.0	0.31	1	05/08/03	05/08/03	JWG0300686	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	2.0	0.55	1	05/08/03	05/08/03	JWG0300686	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	JA Jones Management Services	**Service Request:**	J2300871
Project:	NSB Kings Bay/Site 11	**Date Collected:**	05/06/2003
Sample Matrix:	Water	**Date Received:**	05/08/2003

Volatile Organic Compounds by GC/MS (Appendix IX)

Sample Name:	KBA-11-11A-MAY-03	**Units:**	ug/L
Lab Code:	J2300871-001	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	98	69-122	05/08/03	Acceptable
4-Bromofluorobenzene	88	69-134	05/08/03	Acceptable
Dibromofluoromethane	106	74-115	05/08/03	Acceptable
Toluene-d8	105	77-124	05/08/03	Acceptable

† Analyte Comments

Acrolein	This analyte is quantified using a single point calibration and reported as screening level data.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	JA Jones Management Services	**Service Request:**	J2300871
Project:	NSB Kings Bay/Site 11	**Date Collected:**	05/06/2003
Sample Matrix:	Water	**Date Received:**	05/08/2003

Volatile Organic Compounds by GC/MS (Appendix IX)

Sample Name:	KBA-11-13A-MAY-03	**Units:**	ug/L
Lab Code:	J2300871-002	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	5.0	0.32	1	05/08/03	05/08/03	JWG0300686	
Chloromethane	ND	U	1.0	0.22	1	05/08/03	05/08/03	JWG0300686	
Vinyl Chloride	ND	U	1.0	0.30	1	05/08/03	05/08/03	JWG0300686	
Bromomethane	ND	U	1.0	0.45	1	05/08/03	05/08/03	JWG0300686	
Chloroethane	ND	U	1.0	0.31	1	05/08/03	05/08/03	JWG0300686	
Trichlorofluoromethane	ND	U	1.0	0.22	1	05/08/03	05/08/03	JWG0300686	
Acrolein†	ND	U	100	41	1	05/08/03	05/08/03	JWG0300686	
1,1-Dichloroethene	ND	U	1.0	0.51	1	05/08/03	05/08/03	JWG0300686	
Acetone	ND	U	50	8.0	1	05/08/03	05/08/03	JWG0300686	
Iodomethane (Methyl Iodide)	ND	U	5.0	0.91	1	05/08/03	05/08/03	JWG0300686	
Carbon Disulfide	**15**		10	2.0	1	05/08/03	05/08/03	JWG0300686	
Acetonitrile	ND	U	25	3.9	1	05/08/03	05/08/03	JWG0300686	
Allyl Chloride	ND	U	5.0	1.0	1	05/08/03	05/08/03	JWG0300686	
Methylene Chloride	ND	U	5.0	0.37	1	05/08/03	05/08/03	JWG0300686	
Acrylonitrile	ND	U	10	3.2	1	05/08/03	05/08/03	JWG0300686	
trans-1,2-Dichloroethene	**1.7**		1.0	0.22	1	05/08/03	05/08/03	JWG0300686	
1,1-Dichloroethane	ND	U	1.0	0.42	1	05/08/03	05/08/03	JWG0300686	
Vinyl Acetate	ND	U	10	3.0	1	05/08/03	05/08/03	JWG0300686	
cis-1,2-Dichloroethene	**60**		1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
Chloroprene	ND	U	1.0	0.45	1	05/08/03	05/08/03	JWG0300686	
2-Butanone (MEK)	ND	U	10	3.4	1	05/08/03	05/08/03	JWG0300686	
Propionitrile	ND	U	10	4.8	1	05/08/03	05/08/03	JWG0300686	
Methacrylonitrile	ND	U	2.0	0.45	1	05/08/03	05/08/03	JWG0300686	
Chloroform	ND	U	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.38	1	05/08/03	05/08/03	JWG0300686	
Carbon Tetrachloride	ND	U	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
Benzene	ND	U	1.0	0.30	1	05/08/03	05/08/03	JWG0300686	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.27	1	05/08/03	05/08/03	JWG0300686	
Isobutyl Alcohol	ND	U	50	26	1	05/08/03	05/08/03	JWG0300686	
Trichloroethene (TCE)	**22**		1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
1,2-Dichloropropane	ND	U	1.0	0.28	1	05/08/03	05/08/03	JWG0300686	
Dibromomethane	ND	U	1.0	0.48	1	05/08/03	05/08/03	JWG0300686	
Methyl Methacrylate	ND	U	1.0	0.44	1	05/08/03	05/08/03	JWG0300686	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	JA Jones Management Services	**Service Request:**	J2300871
Project:	NSB Kings Bay/Site 11	**Date Collected:**	05/06/2003
Sample Matrix:	Water	**Date Received:**	05/08/2003

Volatile Organic Compounds by GC/MS (Appendix IX)

Sample Name:	KBA-11-13A-MAY-03	**Units:**	ug/L
Lab Code:	J2300871-002	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,4-Dioxane	ND	U	100	67	1	05/08/03	05/08/03	JWG0300686	
Bromodichloromethane	ND	U	1.0	0.27	1	05/08/03	05/08/03	JWG0300686	
cis-1,3-Dichloropropene	ND	U	1.0	0.36	1	05/08/03	05/08/03	JWG0300686	
4-Methyl-2-pentanone (MIBK)	ND	U	25	3.0	1	05/08/03	05/08/03	JWG0300686	
Toluene	**0.36**	J	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
trans-1,3-Dichloropropene	ND	U	1.0	0.28	1	05/08/03	05/08/03	JWG0300686	
Ethyl Methacrylate	ND	U	1.0	0.37	1	05/08/03	05/08/03	JWG0300686	
1,1,2-Trichloroethane	ND	U	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
Tetrachloroethene (PCE)	**44**		1.0	0.34	1	05/08/03	05/08/03	JWG0300686	
2-Hexanone	ND	U	25	0.56	1	05/08/03	05/08/03	JWG0300686	
Dibromochloromethane	ND	U	1.0	0.36	1	05/08/03	05/08/03	JWG0300686	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.24	1	05/08/03	05/08/03	JWG0300686	
Chlorobenzene	**1.0**		1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.34	1	05/08/03	05/08/03	JWG0300686	
Ethylbenzene	**2.9**		1.0	0.31	1	05/08/03	05/08/03	JWG0300686	
m,p-Xylenes	ND	U	2.0	0.72	1	05/08/03	05/08/03	JWG0300686	
o-Xylene	ND	U	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
Styrene	ND	U	1.0	0.25	1	05/08/03	05/08/03	JWG0300686	
Bromoform	ND	U	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.41	1	05/08/03	05/08/03	JWG0300686	
1,2,3-Trichloropropane	ND	U	1.0	0.49	1	05/08/03	05/08/03	JWG0300686	
trans-1,4-Dichloro-2-butene	ND	U	20	0.44	1	05/08/03	05/08/03	JWG0300686	
1,3-Dichlorobenzene	ND	U	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
1,4-Dichlorobenzene	**0.99**	J	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
1,2-Dichlorobenzene	ND	U	1.0	0.31	1	05/08/03	05/08/03	JWG0300686	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	2.0	0.55	1	05/08/03	05/08/03	JWG0300686	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	JA Jones Management Services	**Service Request:**	J2300871
Project:	NSB Kings Bay/Site 11	**Date Collected:**	05/06/2003
Sample Matrix:	Water	**Date Received:**	05/08/2003

Volatile Organic Compounds by GC/MS (Appendix IX)

Sample Name:	KBA-11-13A-MAY-03	**Units:**	ug/L
Lab Code:	J2300871-002	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	98	69-122	05/08/03	Acceptable
4-Bromofluorobenzene	84	69-134	05/08/03	Acceptable
Dibromofluoromethane	106	74-115	05/08/03	Acceptable
Toluene-d8	105	77-124	05/08/03	Acceptable

† Analyte Comments

Acrolein	This analyte is quantified using a single point calibration and reported as screening level data.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	JA Jones Management Services	**Service Request:**	J2300871
Project:	NSB Kings Bay/Site 11	**Date Collected:**	05/06/2003
Sample Matrix:	Water	**Date Received:**	05/08/2003

Volatile Organic Compounds by GC/MS

Sample Name:	KBA-11-13A-MAY-03 DUP	**Units:**	ug/L
Lab Code:	J2300871-003	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	5.0	0.32	1	05/08/03	05/08/03	JWG0300686	
Chloromethane	ND	U	1.0	0.22	1	05/08/03	05/08/03	JWG0300686	
Vinyl Chloride	ND	U	1.0	0.30	1	05/08/03	05/08/03	JWG0300686	
Bromomethane	ND	U	1.0	0.45	1	05/08/03	05/08/03	JWG0300686	
Chloroethane	ND	U	1.0	0.31	1	05/08/03	05/08/03	JWG0300686	
Trichlorofluoromethane	ND	U	1.0	0.22	1	05/08/03	05/08/03	JWG0300686	
1,1-Dichloroethene	ND	U	1.0	0.51	1	05/08/03	05/08/03	JWG0300686	
Acetone	ND	U	50	8.0	1	05/08/03	05/08/03	JWG0300686	
Iodomethane (Methyl Iodide)	ND	U	5.0	0.91	1	05/08/03	05/08/03	JWG0300686	
Carbon Disulfide	**16**		10	2.0	1	05/08/03	05/08/03	JWG0300686	
Methylene Chloride	ND	U	5.0	0.37	1	05/08/03	05/08/03	JWG0300686	
trans-1,2-Dichloroethene	**1.8**		1.0	0.22	1	05/08/03	05/08/03	JWG0300686	
1,1-Dichloroethane	ND	U	1.0	0.42	1	05/08/03	05/08/03	JWG0300686	
Vinyl Acetate	ND	U	10	3.0	1	05/08/03	05/08/03	JWG0300686	
cis-1,2-Dichloroethene	**60**		1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
2-Butanone (MEK)	ND	U	10	3.4	1	05/08/03	05/08/03	JWG0300686	
Bromochloromethane	ND	U	1.0	0.38	1	05/08/03	05/08/03	JWG0300686	
Methacrylonitrile	ND	U	2.0	0.45	1	05/08/03	05/08/03	JWG0300686	
Chloroform	ND	U	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.38	1	05/08/03	05/08/03	JWG0300686	
Carbon Tetrachloride	ND	U	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
Benzene	ND	U	1.0	0.30	1	05/08/03	05/08/03	JWG0300686	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.27	1	05/08/03	05/08/03	JWG0300686	
Trichloroethene (TCE)	**22**		1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
1,2-Dichloropropane	ND	U	1.0	0.28	1	05/08/03	05/08/03	JWG0300686	
Dibromomethane	ND	U	1.0	0.48	1	05/08/03	05/08/03	JWG0300686	
Bromodichloromethane	ND	U	1.0	0.27	1	05/08/03	05/08/03	JWG0300686	
cis-1,3-Dichloropropene	ND	U	1.0	0.36	1	05/08/03	05/08/03	JWG0300686	
4-Methyl-2-pentanone (MIBK)	ND	U	25	3.0	1	05/08/03	05/08/03	JWG0300686	
Toluene	**0.40**	J	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
trans-1,3-Dichloropropene	ND	U	1.0	0.28	1	05/08/03	05/08/03	JWG0300686	
1,1,2-Trichloroethane	ND	U	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
Tetrachloroethene (PCE)	**45**		1.0	0.34	1	05/08/03	05/08/03	JWG0300686	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	JA Jones Management Services	**Service Request:**	J2300871
Project:	NSB Kings Bay/Site 11	**Date Collected:**	05/06/2003
Sample Matrix:	Water	**Date Received:**	05/08/2003

Volatile Organic Compounds by GC/MS

Sample Name:	KBA-11-13A-MAY-03 DUP	**Units:**	ug/L
Lab Code:	J2300871-003	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2-Hexanone	ND	U	25	0.56	1	05/08/03	05/08/03	JWG0300686	
Dibromochloromethane	ND	U	1.0	0.36	1	05/08/03	05/08/03	JWG0300686	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.24	1	05/08/03	05/08/03	JWG0300686	
Chlorobenzene	**0.98**	J	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.34	1	05/08/03	05/08/03	JWG0300686	
Ethylbenzene	**2.9**		1.0	0.31	1	05/08/03	05/08/03	JWG0300686	
m,p-Xylenes	ND	U	2.0	0.72	1	05/08/03	05/08/03	JWG0300686	
o-Xylene	ND	U	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
Styrene	ND	U	1.0	0.25	1	05/08/03	05/08/03	JWG0300686	
Bromoform	ND	U	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.41	1	05/08/03	05/08/03	JWG0300686	
1,2,3-Trichloropropane	ND	U	1.0	0.49	1	05/08/03	05/08/03	JWG0300686	
trans-1,4-Dichloro-2-butene	ND	U	20	0.44	1	05/08/03	05/08/03	JWG0300686	
1,3-Dichlorobenzene	ND	U	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
1,4-Dichlorobenzene	**1.0**		1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
1,2-Dichlorobenzene	ND	U	1.0	0.31	1	05/08/03	05/08/03	JWG0300686	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	2.0	0.55	1	05/08/03	05/08/03	JWG0300686	
Naphthalene	**9.4**	J	10	1.1	1	05/08/03	05/08/03	JWG0300686	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	99	69-122	05/08/03	Acceptable
4-Bromofluorobenzene	83	69-134	05/08/03	Acceptable
Dibromofluoromethane	108	74-115	05/08/03	Acceptable
Toluene-d8	103	77-124	05/08/03	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	JA Jones Management Services	**Service Request:**	J2300871
Project:	NSB Kings Bay/Site 11	**Date Collected:**	05/06/2003
Sample Matrix:	Water	**Date Received:**	05/08/2003

Volatile Organic Compounds by GC/MS

Sample Name:	KBA-11-PS2-MAY-03	**Units:**	ug/L
Lab Code:	J2300871-006	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	5.0	0.32	1	05/08/03	05/08/03	JWG0300686	
Chloromethane	ND	U	1.0	0.22	1	05/08/03	05/08/03	JWG0300686	
Vinyl Chloride	**4.3**		1.0	0.30	1	05/08/03	05/08/03	JWG0300686	
Bromomethane	ND	U	1.0	0.45	1	05/08/03	05/08/03	JWG0300686	
Chloroethane	ND	U	1.0	0.31	1	05/08/03	05/08/03	JWG0300686	
Trichlorofluoromethane	ND	U	1.0	0.22	1	05/08/03	05/08/03	JWG0300686	
1,1-Dichloroethene	ND	U	1.0	0.51	1	05/08/03	05/08/03	JWG0300686	
Acetone	ND	U	50	8.0	1	05/08/03	05/08/03	JWG0300686	
Iodomethane (Methyl Iodide)	ND	U	5.0	0.91	1	05/08/03	05/08/03	JWG0300686	
Carbon Disulfide	ND	U	10	2.0	1	05/08/03	05/08/03	JWG0300686	
Methylene Chloride	ND	U	5.0	0.37	1	05/08/03	05/08/03	JWG0300686	
trans-1,2-Dichloroethene	**1.1**		1.0	0.22	1	05/08/03	05/08/03	JWG0300686	
1,1-Dichloroethane	**2.5**		1.0	0.42	1	05/08/03	05/08/03	JWG0300686	
Vinyl Acetate	ND	U	10	3.0	1	05/08/03	05/08/03	JWG0300686	
cis-1,2-Dichloroethene	**140**		1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
2-Butanone (MEK)	ND	U	10	3.4	1	05/08/03	05/08/03	JWG0300686	
Bromochloromethane	ND	U	1.0	0.38	1	05/08/03	05/08/03	JWG0300686	
Methacrylonitrile	ND	U	2.0	0.45	1	05/08/03	05/08/03	JWG0300686	
Chloroform	ND	U	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.38	1	05/08/03	05/08/03	JWG0300686	
Carbon Tetrachloride	ND	U	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
Benzene	**1.6**		1.0	0.30	1	05/08/03	05/08/03	JWG0300686	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.27	1	05/08/03	05/08/03	JWG0300686	
Trichloroethene (TCE)	**1.6**		1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
1,2-Dichloropropane	ND	U	1.0	0.28	1	05/08/03	05/08/03	JWG0300686	
Dibromomethane	ND	U	1.0	0.48	1	05/08/03	05/08/03	JWG0300686	
Bromodichloromethane	ND	U	1.0	0.27	1	05/08/03	05/08/03	JWG0300686	
cis-1,3-Dichloropropene	ND	U	1.0	0.36	1	05/08/03	05/08/03	JWG0300686	
4-Methyl-2-pentanone (MIBK)	ND	U	25	3.0	1	05/08/03	05/08/03	JWG0300686	
Toluene	**1.2**		1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
trans-1,3-Dichloropropene	ND	U	1.0	0.28	1	05/08/03	05/08/03	JWG0300686	
1,1,2-Trichloroethane	ND	U	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
Tetrachloroethene (PCE)	ND	U	1.0	0.34	1	05/08/03	05/08/03	JWG0300686	

Comments:

Client:	JA Jones Management Services	**Service Request:**	J2300871
Project:	NSB Kings Bay/Site 11	**Date Collected:**	05/06/2003
Sample Matrix:	Water	**Date Received:**	05/08/2003

Volatile Organic Compounds by GC/MS

Sample Name:	KBA-11-PS2-MAY-03	**Units:**	ug/L
Lab Code:	J2300871-006	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2-Hexanone	ND	U	25	0.56	1	05/08/03	05/08/03	JWG0300686	
Dibromochloromethane	ND	U	1.0	0.36	1	05/08/03	05/08/03	JWG0300686	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.24	1	05/08/03	05/08/03	JWG0300686	
Chlorobenzene	**1.6**		1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.34	1	05/08/03	05/08/03	JWG0300686	
Ethylbenzene	**9.7**		1.0	0.31	1	05/08/03	05/08/03	JWG0300686	
m,p-Xylenes	ND	U	2.0	0.72	1	05/08/03	05/08/03	JWG0300686	
o-Xylene	**0.41**	J	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
Styrene	ND	U	1.0	0.25	1	05/08/03	05/08/03	JWG0300686	
Bromoform	ND	U	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.41	1	05/08/03	05/08/03	JWG0300686	
1,2,3-Trichloropropane	ND	U	1.0	0.49	1	05/08/03	05/08/03	JWG0300686	
trans-1,4-Dichloro-2-butene	ND	U	20	0.44	1	05/08/03	05/08/03	JWG0300686	
1,3-Dichlorobenzene	ND	U	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
1,4-Dichlorobenzene	ND	U	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
1,2-Dichlorobenzene	ND	U	1.0	0.31	1	05/08/03	05/08/03	JWG0300686	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	2.0	0.55	1	05/08/03	05/08/03	JWG0300686	
Naphthalene	ND	U	10	1.1	1	05/08/03	05/08/03	JWG0300686	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	101	69-122	05/08/03	Acceptable
4-Bromofluorobenzene	88	69-134	05/08/03	Acceptable
Dibromofluoromethane	108	74-115	05/08/03	Acceptable
Toluene-d8	106	77-124	05/08/03	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	JA Jones Management Services	**Service Request:**	J2300871
Project:	NSB Kings Bay/Site 11	**Date Collected:**	05/06/2003
Sample Matrix:	Water	**Date Received:**	05/08/2003

Volatile Organic Compounds by GC/MS

Sample Name:	KBA-11-34-MAY-03	**Units:**	ug/L
Lab Code:	J2300871-007	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	5.0	0.32	1	05/08/03	05/08/03	JWG0300686	
Chloromethane	ND	U	1.0	0.22	1	05/08/03	05/08/03	JWG0300686	
Vinyl Chloride	ND	U	1.0	0.30	1	05/08/03	05/08/03	JWG0300686	
Bromomethane	ND	U	1.0	0.45	1	05/08/03	05/08/03	JWG0300686	
Chloroethane	ND	U	1.0	0.31	1	05/08/03	05/08/03	JWG0300686	
Trichlorofluoromethane	ND	U	1.0	0.22	1	05/08/03	05/08/03	JWG0300686	
1,1-Dichloroethene	ND	U	1.0	0.51	1	05/08/03	05/08/03	JWG0300686	
Acetone	ND	U	50	8.0	1	05/08/03	05/08/03	JWG0300686	
Iodomethane (Methyl Iodide)	ND	U	5.0	0.91	1	05/08/03	05/08/03	JWG0300686	
Carbon Disulfide	ND	U	10	2.0	1	05/08/03	05/08/03	JWG0300686	
Methylene Chloride	ND	U	5.0	0.37	1	05/08/03	05/08/03	JWG0300686	
trans-1,2-Dichloroethene	ND	U	1.0	0.22	1	05/08/03	05/08/03	JWG0300686	
1,1-Dichloroethane	ND	U	1.0	0.42	1	05/08/03	05/08/03	JWG0300686	
Vinyl Acetate	ND	U	10	3.0	1	05/08/03	05/08/03	JWG0300686	
cis-1,2-Dichloroethene	**1.8**		1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
2-Butanone (MEK)	ND	U	10	3.4	1	05/08/03	05/08/03	JWG0300686	
Bromochloromethane	ND	U	1.0	0.38	1	05/08/03	05/08/03	JWG0300686	
Methacrylonitrile	ND	U	2.0	0.45	1	05/08/03	05/08/03	JWG0300686	
Chloroform	ND	U	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.38	1	05/08/03	05/08/03	JWG0300686	
Carbon Tetrachloride	ND	U	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
Benzene	ND	U	1.0	0.30	1	05/08/03	05/08/03	JWG0300686	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.27	1	05/08/03	05/08/03	JWG0300686	
Trichloroethene (TCE)	**6.2**		1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
1,2-Dichloropropane	ND	U	1.0	0.28	1	05/08/03	05/08/03	JWG0300686	
Dibromomethane	ND	U	1.0	0.48	1	05/08/03	05/08/03	JWG0300686	
Bromodichloromethane	ND	U	1.0	0.27	1	05/08/03	05/08/03	JWG0300686	
cis-1,3-Dichloropropene	ND	U	1.0	0.36	1	05/08/03	05/08/03	JWG0300686	
4-Methyl-2-pentanone (MIBK)	ND	U	25	3.0	1	05/08/03	05/08/03	JWG0300686	
Toluene	ND	U	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
trans-1,3-Dichloropropene	ND	U	1.0	0.28	1	05/08/03	05/08/03	JWG0300686	
1,1,2-Trichloroethane	ND	U	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
Tetrachloroethene (PCE)	**58**		1.0	0.34	1	05/08/03	05/08/03	JWG0300686	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	JA Jones Management Services	**Service Request:**	J2300871
Project:	NSB Kings Bay/Site 11	**Date Collected:**	05/06/2003
Sample Matrix:	Water	**Date Received:**	05/08/2003

Volatile Organic Compounds by GC/MS

Sample Name:	KBA-11-34-MAY-03	**Units:**	ug/L
Lab Code:	J2300871-007	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2-Hexanone	ND	U	25	0.56	1	05/08/03	05/08/03	JWG0300686	
Dibromochloromethane	ND	U	1.0	0.36	1	05/08/03	05/08/03	JWG0300686	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.24	1	05/08/03	05/08/03	JWG0300686	
Chlorobenzene	ND	U	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.34	1	05/08/03	05/08/03	JWG0300686	
Ethylbenzene	ND	U	1.0	0.31	1	05/08/03	05/08/03	JWG0300686	
m,p-Xylenes	ND	U	2.0	0.72	1	05/08/03	05/08/03	JWG0300686	
o-Xylene	ND	U	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
Styrene	ND	U	1.0	0.25	1	05/08/03	05/08/03	JWG0300686	
Bromoform	ND	U	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.41	1	05/08/03	05/08/03	JWG0300686	
1,2,3-Trichloropropane	ND	U	1.0	0.49	1	05/08/03	05/08/03	JWG0300686	
trans-1,4-Dichloro-2-butene	ND	U	20	0.44	1	05/08/03	05/08/03	JWG0300686	
1,3-Dichlorobenzene	ND	U	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
1,4-Dichlorobenzene	**0.74**	J	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
1,2-Dichlorobenzene	ND	U	1.0	0.31	1	05/08/03	05/08/03	JWG0300686	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	2.0	0.55	1	05/08/03	05/08/03	JWG0300686	
Naphthalene	ND	U	10	1.1	1	05/08/03	05/08/03	JWG0300686	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	95	69-122	05/08/03	Acceptable
4-Bromofluorobenzene	85	69-134	05/08/03	Acceptable
Dibromofluoromethane	105	74-115	05/08/03	Acceptable
Toluene-d8	101	77-124	05/08/03	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	JA Jones Management Services	**Service Request:**	J2300871
Project:	NSB Kings Bay/Site 11	**Date Collected:**	05/07/2003
Sample Matrix:	Water	**Date Received:**	05/08/2003

Volatile Organic Compounds by GC/MS

Sample Name:	KBA-11-16-MAY-03	**Units:**	ug/L
Lab Code:	J2300871-008	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	5.0	0.32	1	05/08/03	05/08/03	JWG0300686	
Chloromethane	ND	U	1.0	0.22	1	05/08/03	05/08/03	JWG0300686	
Vinyl Chloride	ND	U	1.0	0.30	1	05/08/03	05/08/03	JWG0300686	
Bromomethane	ND	U	1.0	0.45	1	05/08/03	05/08/03	JWG0300686	
Chloroethane	ND	U	1.0	0.31	1	05/08/03	05/08/03	JWG0300686	
Trichlorofluoromethane	ND	U	1.0	0.22	1	05/08/03	05/08/03	JWG0300686	
1,1-Dichloroethene	**3.0**		1.0	0.51	1	05/08/03	05/08/03	JWG0300686	
Acetone	**100**		50	8.0	1	05/08/03	05/08/03	JWG0300686	
Iodomethane (Methyl Iodide)	ND	U	5.0	0.91	1	05/08/03	05/08/03	JWG0300686	
Carbon Disulfide	ND	U	10	2.0	1	05/08/03	05/08/03	JWG0300686	
Methylene Chloride	**2.4**	J	5.0	0.37	1	05/08/03	05/08/03	JWG0300686	
trans-1,2-Dichloroethene	ND	U	1.0	0.22	1	05/08/03	05/08/03	JWG0300686	
1,1-Dichloroethane	**37**		1.0	0.42	1	05/08/03	05/08/03	JWG0300686	
Vinyl Acetate	ND	U	10	3.0	1	05/08/03	05/08/03	JWG0300686	
cis-1,2-Dichloroethene	**39**		1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
2-Butanone (MEK)	**61**		10	3.4	1	05/08/03	05/08/03	JWG0300686	
Bromochloromethane	ND	U	1.0	0.38	1	05/08/03	05/08/03	JWG0300686	
Methacrylonitrile	ND	U	2.0	0.45	1	05/08/03	05/08/03	JWG0300686	
Chloroform	ND	U	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.38	1	05/08/03	05/08/03	JWG0300686	
Carbon Tetrachloride	ND	U	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
Benzene	**0.90**	J	1.0	0.30	1	05/08/03	05/08/03	JWG0300686	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.27	1	05/08/03	05/08/03	JWG0300686	
Trichloroethene (TCE)	**0.88**	J	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
1,2-Dichloropropane	ND	U	1.0	0.28	1	05/08/03	05/08/03	JWG0300686	
Dibromomethane	ND	U	1.0	0.48	1	05/08/03	05/08/03	JWG0300686	
Bromodichloromethane	ND	U	1.0	0.27	1	05/08/03	05/08/03	JWG0300686	
cis-1,3-Dichloropropene	ND	U	1.0	0.36	1	05/08/03	05/08/03	JWG0300686	
4-Methyl-2-pentanone (MIBK)	**210**		25	3.0	1	05/08/03	05/08/03	JWG0300686	
Toluene	**28**		1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
trans-1,3-Dichloropropene	ND	U	1.0	0.28	1	05/08/03	05/08/03	JWG0300686	
1,1,2-Trichloroethane	ND	U	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
Tetrachloroethene (PCE)	**0.74**	J	1.0	0.34	1	05/08/03	05/08/03	JWG0300686	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	JA Jones Management Services	**Service Request:**	J2300871
Project:	NSB Kings Bay/Site 11	**Date Collected:**	05/07/2003
Sample Matrix:	Water	**Date Received:**	05/08/2003

Volatile Organic Compounds by GC/MS

Sample Name:	KBA-11-16-MAY-03	**Units:**	ug/L
Lab Code:	J2300871-008	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2-Hexanone	**0.82**	J	25	0.56	1	05/08/03	05/08/03	JWG0300686	
Dibromochloromethane	ND	U	1.0	0.36	1	05/08/03	05/08/03	JWG0300686	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.24	1	05/08/03	05/08/03	JWG0300686	
Chlorobenzene	ND	U	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.34	1	05/08/03	05/08/03	JWG0300686	
Ethylbenzene	**4.3**		1.0	0.31	1	05/08/03	05/08/03	JWG0300686	
m,p-Xylenes	**5.1**		2.0	0.72	1	05/08/03	05/08/03	JWG0300686	
o-Xylene	**3.8**		1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
Styrene	ND	U	1.0	0.25	1	05/08/03	05/08/03	JWG0300686	
Bromoform	ND	U	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.41	1	05/08/03	05/08/03	JWG0300686	
1,2,3-Trichloropropane	ND	U	1.0	0.49	1	05/08/03	05/08/03	JWG0300686	
trans-1,4-Dichloro-2-butene	ND	U	20	0.44	1	05/08/03	05/08/03	JWG0300686	
1,3-Dichlorobenzene	ND	U	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
1,4-Dichlorobenzene	ND	U	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
1,2-Dichlorobenzene	ND	U	1.0	0.31	1	05/08/03	05/08/03	JWG0300686	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	2.0	0.55	1	05/08/03	05/08/03	JWG0300686	
Naphthalene	ND	U	10	1.1	1	05/08/03	05/08/03	JWG0300686	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	100	69-122	05/08/03	Acceptable
4-Bromofluorobenzene	87	69-134	05/08/03	Acceptable
Dibromofluoromethane	105	74-115	05/08/03	Acceptable
Toluene-d8	105	77-124	05/08/03	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	JA Jones Management Services	**Service Request:**	J2300871
Project:	NSB Kings Bay/Site 11	**Date Collected:**	05/07/2003
Sample Matrix:	Water	**Date Received:**	05/08/2003

Volatile Organic Compounds by GC/MS

Sample Name:	KBA-11-37-MAY-03	**Units:**	ug/L
Lab Code:	J2300871-009	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	**1.8**	**J**	5.0	0.32	1	05/08/03	05/08/03	JWG0300686	
Chloromethane	ND	U	1.0	0.22	1	05/08/03	05/08/03	JWG0300686	
Vinyl Chloride	**1.2**		1.0	0.30	1	05/08/03	05/08/03	JWG0300686	
Bromomethane	ND	U	1.0	0.45	1	05/08/03	05/08/03	JWG0300686	
Chloroethane	ND	U	1.0	0.31	1	05/08/03	05/08/03	JWG0300686	
Trichlorofluoromethane	ND	U	1.0	0.22	1	05/08/03	05/08/03	JWG0300686	
1,1-Dichloroethene	ND	U	1.0	0.51	1	05/08/03	05/08/03	JWG0300686	
Acetone	ND	U	50	8.0	1	05/08/03	05/08/03	JWG0300686	
Iodomethane (Methyl Iodide)	ND	U	5.0	0.91	1	05/08/03	05/08/03	JWG0300686	
Carbon Disulfide	ND	U	10	2.0	1	05/08/03	05/08/03	JWG0300686	
Methylene Chloride	ND	U	5.0	0.37	1	05/08/03	05/08/03	JWG0300686	
trans-1,2-Dichloroethene	ND	U	1.0	0.22	1	05/08/03	05/08/03	JWG0300686	
1,1-Dichloroethane	ND	U	1.0	0.42	1	05/08/03	05/08/03	JWG0300686	
Vinyl Acetate	ND	U	10	3.0	1	05/08/03	05/08/03	JWG0300686	
cis-1,2-Dichloroethene	**7.2**		1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
2-Butanone (MEK)	ND	U	10	3.4	1	05/08/03	05/08/03	JWG0300686	
Bromochloromethane	ND	U	1.0	0.38	1	05/08/03	05/08/03	JWG0300686	
Methacrylonitrile	ND	U	2.0	0.45	1	05/08/03	05/08/03	JWG0300686	
Chloroform	ND	U	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
1,1,1-Trichloroethane (TCA)	ND	U	1.0	0.38	1	05/08/03	05/08/03	JWG0300686	
Carbon Tetrachloride	ND	U	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
Benzene	**0.72**	**J**	1.0	0.30	1	05/08/03	05/08/03	JWG0300686	
1,2-Dichloroethane (EDC)	ND	U	1.0	0.27	1	05/08/03	05/08/03	JWG0300686	
Trichloroethene (TCE)	ND	U	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
1,2-Dichloropropane	ND	U	1.0	0.28	1	05/08/03	05/08/03	JWG0300686	
Dibromomethane	ND	U	1.0	0.48	1	05/08/03	05/08/03	JWG0300686	
Bromodichloromethane	ND	U	1.0	0.27	1	05/08/03	05/08/03	JWG0300686	
cis-1,3-Dichloropropene	ND	U	1.0	0.36	1	05/08/03	05/08/03	JWG0300686	
4-Methyl-2-pentanone (MIBK)	ND	U	25	3.0	1	05/08/03	05/08/03	JWG0300686	
Toluene	ND	U	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
trans-1,3-Dichloropropene	ND	U	1.0	0.28	1	05/08/03	05/08/03	JWG0300686	
1,1,2-Trichloroethane	ND	U	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
Tetrachloroethene (PCE)	ND	U	1.0	0.34	1	05/08/03	05/08/03	JWG0300686	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	JA Jones Management Services	**Service Request:**	J2300871
Project:	NSB Kings Bay/Site 11	**Date Collected:**	05/07/2003
Sample Matrix:	Water	**Date Received:**	05/08/2003

Volatile Organic Compounds by GC/MS

Sample Name:	KBA-11-37-MAY-03	**Units:**	ug/L
Lab Code:	J2300871-009	**Basis:**	NA
Extraction Method:	EPA 5030B	**Level:**	Low
Analysis Method:	8260B		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2-Hexanone	ND	U	25	0.56	1	05/08/03	05/08/03	JWG0300686	
Dibromochloromethane	ND	U	1.0	0.36	1	05/08/03	05/08/03	JWG0300686	
1,2-Dibromoethane (EDB)	ND	U	1.0	0.24	1	05/08/03	05/08/03	JWG0300686	
Chlorobenzene	**6.2**		1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
1,1,1,2-Tetrachloroethane	ND	U	1.0	0.34	1	05/08/03	05/08/03	JWG0300686	
Ethylbenzene	**3.3**		1.0	0.31	1	05/08/03	05/08/03	JWG0300686	
m,p-Xylenes	ND	U	2.0	0.72	1	05/08/03	05/08/03	JWG0300686	
o-Xylene	ND	U	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
Styrene	ND	U	1.0	0.25	1	05/08/03	05/08/03	JWG0300686	
Bromoform	ND	U	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
1,1,2,2-Tetrachloroethane	ND	U	1.0	0.41	1	05/08/03	05/08/03	JWG0300686	
1,2,3-Trichloropropane	ND	U	1.0	0.49	1	05/08/03	05/08/03	JWG0300686	
trans-1,4-Dichloro-2-butene	ND	U	20	0.44	1	05/08/03	05/08/03	JWG0300686	
1,3-Dichlorobenzene	ND	U	1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
1,4-Dichlorobenzene	**3.6**		1.0	0.32	1	05/08/03	05/08/03	JWG0300686	
1,2-Dichlorobenzene	ND	U	1.0	0.31	1	05/08/03	05/08/03	JWG0300686	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	2.0	0.55	1	05/08/03	05/08/03	JWG0300686	
Naphthalene	**14**		10	1.1	1	05/08/03	05/08/03	JWG0300686	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,2-Dichloroethane-d4	106	69-122	05/08/03	Acceptable
4-Bromofluorobenzene	91	69-134	05/08/03	Acceptable
Dibromofluoromethane	112	74-115	05/08/03	Acceptable
Toluene-d8	109	77-124	05/08/03	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	JA Jones Management Services	**Service Request:**	J2300871
Project:	NSB Kings Bay/Site 11	**Date Collected:**	05/06/2003
Sample Matrix:	Water	**Date Received:**	05/08/2003

Semi-Volatile Organic Compounds by GC/MS (Appendix IX)

Sample Name:	KBA-11-11A-MAY-03	**Units:**	ug/L
Lab Code:	J2300871-001	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8270C		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pyridine	ND	U	21	2.1	1	05/12/03	05/23/03	JWG0300695	
N-Nitrosodimethylamine	ND	U	5.2	0.52	1	05/12/03	05/23/03	JWG0300695	
2-Picoline	ND	U	5.2	0.52	1	05/12/03	05/23/03	JWG0300695	
N-Nitrosomethylethylamine	ND	U	5.2	0.61	1	05/12/03	05/23/03	JWG0300695	
Methyl Methanesulfonate	ND	U	5.2	0.61	1	05/12/03	05/23/03	JWG0300695	
N-Nitrosodiethylamine	ND	U	5.2	0.97	1	05/12/03	05/23/03	JWG0300695	
Ethyl Methanesulfonate	ND	U	5.2	0.85	1	05/12/03	05/23/03	JWG0300695	
Aniline	ND	U	5.2	0.52	1	05/12/03	05/23/03	JWG0300695	
Phenol	ND	U	5.2	0.52	1	05/12/03	05/23/03	JWG0300695	
Bis(2-chloroethyl) Ether	ND	U	5.2	1.1	1	05/12/03	05/23/03	JWG0300695	
2-Chlorophenol	ND	U	5.2	0.87	1	05/12/03	05/23/03	JWG0300695	
1,3-Dichlorobenzene	ND	U	5.2	1.0	1	05/12/03	05/23/03	JWG0300695	
1,4-Dichlorobenzene	ND	U	5.2	1.0	1	05/12/03	05/23/03	JWG0300695	
Benzyl alcohol	ND	U	5.2	0.84	1	05/12/03	05/23/03	JWG0300695	
1,2-Dichlorobenzene	ND	U	5.2	1.2	1	05/12/03	05/23/03	JWG0300695	
2-Methylphenol	ND	U	5.2	0.74	1	05/12/03	05/23/03	JWG0300695	
Bis(2-chloroisopropyl) Ether	ND	U	5.2	1.2	1	05/12/03	05/23/03	JWG0300695	
Pentachloroethane	ND	U	21	6.0	1	05/12/03	05/23/03	JWG0300695	
Acetophenone	ND	U	11	5.8	1	05/12/03	05/23/03	JWG0300695	
4-Methylphenol†	ND	U	5.2	1.3	1	05/12/03	05/23/03	JWG0300695	
N-Nitrosodi-n-propylamine	ND	U	5.2	1.1	1	05/12/03	05/23/03	JWG0300695	
Hexachloroethane	ND	U	5.2	0.98	1	05/12/03	05/23/03	JWG0300695	
Nitrobenzene	ND	U	5.2	0.93	1	05/12/03	05/23/03	JWG0300695	
o-Toluidine	ND	U	5.2	0.74	1	05/12/03	05/23/03	JWG0300695	
Isophorone	ND	U	5.2	1.2	1	05/12/03	05/23/03	JWG0300695	
2-Nitrophenol	ND	U	21	1.1	1	05/12/03	05/23/03	JWG0300695	
2,4-Dimethylphenol	ND	U	5.2	0.95	1	05/12/03	05/23/03	JWG0300695	
N-Nitrosopyrrolidine	ND	U	5.2	0.81	1	05/12/03	05/23/03	JWG0300695	
bis(2-Chloroethoxy)methane	ND	U	5.2	1.2	1	05/12/03	05/23/03	JWG0300695	
N-Nitrosomorpholine	ND	U	5.2	0.84	1	05/12/03	05/23/03	JWG0300695	
2,4-Dichlorophenol	ND	U	5.2	1.3	1	05/12/03	05/23/03	JWG0300695	
1,2,4-Trichlorobenzene	ND	U	5.2	1.2	1	05/12/03	05/23/03	JWG0300695	
Naphthalene	ND	U	5.2	1.2	1	05/12/03	05/23/03	JWG0300695	
N-Nitrosopiperidine	ND	U	5.2	1.2	1	05/12/03	05/23/03	JWG0300695	

Comments:

Client: JA Jones Management Services
Project: NSB Kings Bay/Site 11
Sample Matrix: Water

Service Request: J2300871
Date Collected: 05/06/2003
Date Received: 05/08/2003

Semi-Volatile Organic Compounds by GC/MS (Appendix IX)

Sample Name: KBA-11-11A-MAY-03
Lab Code: J2300871-001

Units: ug/L
Basis: NA

Extraction Method: EPA 3510C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
4-Chloroaniline	ND	U	5.2	0.60	1	05/12/03	05/23/03	JWG0300695	
2,6-Dichlorophenol	ND	U	11	1.3	1	05/12/03	05/23/03	JWG0300695	
Hexachlorobutadiene	ND	U	5.2	1.3	1	05/12/03	05/23/03	JWG0300695	
O,O,O-Triethyl Phosphorothioate	ND	U	21	5.0	1	05/12/03	05/23/03	JWG0300695	
4-Chloro-3-methylphenol	ND	U	5.2	1.2	1	05/12/03	05/23/03	JWG0300695	
Hexachloropropene	ND	U	5.2	1.4	1	05/12/03	05/23/03	JWG0300695	
2-Methylnaphthalene	ND	U	5.2	1.3	1	05/12/03	05/23/03	JWG0300695	
a,a-Dimethylphenethylamine	ND	U	21	2.0	1	05/12/03	05/23/03	JWG0300695	
Hexachlorocyclopentadiene	ND	U	5.2	1.8	1	05/12/03	05/23/03	JWG0300695	
p-Phenylenediamine	ND	U	21	21	1	05/12/03	05/23/03	JWG0300695	
N-Nitrosodi-n-butylamine	ND	U	5.2	1.7	1	05/12/03	05/23/03	JWG0300695	
2,4,6-Trichlorophenol	ND	U	5.2	1.2	1	05/12/03	05/23/03	JWG0300695	
2,4,5-Trichlorophenol	ND	U	5.2	1.5	1	05/12/03	05/23/03	JWG0300695	
1,2,4,5-Tetrachlorobenzene	ND	U	5.2	1.5	1	05/12/03	05/23/03	JWG0300695	
Safrole	ND	U	5.2	1.5	1	05/12/03	05/23/03	JWG0300695	
2-Chloronaphthalene	ND	U	5.2	1.4	1	05/12/03	05/23/03	JWG0300695	
2-Nitroaniline	ND	U	5.2	1.2	1	05/12/03	05/23/03	JWG0300695	
Dimethyl Phthalate	ND	U	5.2	1.5	1	05/12/03	05/23/03	JWG0300695	
Acenaphthylene	ND	U	5.2	1.3	1	05/12/03	05/23/03	JWG0300695	
2,6-Dinitrotoluene	ND	U	5.2	1.5	1	05/12/03	05/23/03	JWG0300695	
Isosafrole	ND	U	5.2	1.5	1	05/12/03	05/23/03	JWG0300695	
3-Nitroaniline	ND	U	5.2	1.3	1	05/12/03	05/23/03	JWG0300695	
Acenaphthene	ND	U	5.2	1.3	1	05/12/03	05/23/03	JWG0300695	
2,4-Dinitrophenol	ND	U	21	7.6	1	05/12/03	05/23/03	JWG0300695	
1,4-Naphthoquinone	ND	U	11	7.4	1	05/12/03	05/23/03	JWG0300695	
Dibenzofuran	ND	U	5.2	1.3	1	05/12/03	05/23/03	JWG0300695	
4-Nitrophenol	ND	U	21	3.1	1	05/12/03	05/23/03	JWG0300695	
2,4-Dinitrotoluene	ND	U	5.2	1.4	1	05/12/03	05/23/03	JWG0300695	
1,3-Dinitrobenzene	ND	U	11	5.7	1	05/12/03	05/23/03	JWG0300695	
Fluorene	ND	U	5.2	1.4	1	05/12/03	05/23/03	JWG0300695	
Diethyl Phthalate	ND	U	5.2	1.4	1	05/12/03	05/23/03	JWG0300695	
4-Chlorophenyl Phenyl Ether	ND	U	5.2	1.4	1	05/12/03	05/23/03	JWG0300695	
4-Nitroaniline	ND	U	5.2	1.1	1	05/12/03	05/23/03	JWG0300695	
2-Methyl-4,6-dinitrophenol	ND	U	21	5.9	1	05/12/03	05/23/03	JWG0300695	

Comments:

Client: JA Jones Management Services
Project: NSB Kings Bay/Site 11
Sample Matrix: Water

Service Request: J2300871
Date Collected: 05/06/2003
Date Received: 05/08/2003

Semi-Volatile Organic Compounds by GC/MS (Appendix IX)

Sample Name: KBA-11-11A-MAY-03
Lab Code: J2300871-001

Units: ug/L
Basis: NA

Extraction Method: EPA 3510C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodiphenylamine†	ND	U	5.2	4.0	1	05/12/03	05/23/03	JWG0300695	
Pentachlorobenzene	ND	U	5.2	1.6	1	05/12/03	05/23/03	JWG0300695	
2-Naphthylamine	ND	U	5.2	1.1	1	05/12/03	05/23/03	JWG0300695	
5-Nitro-o-toluidine	ND	U	5.2	1.5	1	05/12/03	05/23/03	JWG0300695	
2,3,4,6-Tetrachlorophenol	ND	U	11	6.4	1	05/12/03	05/23/03	JWG0300695	
1-Naphthylamine	ND	U	5.2	0.95	1	05/12/03	05/23/03	JWG0300695	
4-Bromophenyl Phenyl Ether	ND	U	5.2	1.4	1	05/12/03	05/23/03	JWG0300695	
Thionazin	ND	U	11	5.7	1	05/12/03	05/23/03	JWG0300695	
Hexachlorobenzene	ND	U	5.2	1.4	1	05/12/03	05/23/03	JWG0300695	
Pentachlorophenol	ND	U	21	6.2	1	05/12/03	05/23/03	JWG0300695	
Sulfotep	ND	U	11	6.6	1	05/12/03	05/23/03	JWG0300695	
Phenanthrene	ND	U	5.2	1.3	1	05/12/03	05/23/03	JWG0300695	
Phorate	ND	U	5.2	4.7	1	05/12/03	05/23/03	JWG0300695	
1,3,5-Trinitrobenzene	ND	U	5.2	3.1	1	05/12/03	05/23/03	JWG0300695	
Anthracene	ND	U	5.2	1.4	1	05/12/03	05/23/03	JWG0300695	
4-Aminobiphenyl	ND	U	5.2	1.3	1	05/12/03	05/23/03	JWG0300695	
Phenacetin	ND	U	5.2	1.3	1	05/12/03	05/23/03	JWG0300695	
Diallate	ND	U	5.2	5.2	1	05/12/03	05/23/03	JWG0300695	
Dimethoate	ND	U	5.2	4.2	1	05/12/03	05/23/03	JWG0300695	
Pentachloronitrobenzene	ND	U	5.2	1.6	1	05/12/03	05/23/03	JWG0300695	
Pronamide	ND	U	21	20	1	05/12/03	05/23/03	JWG0300695	
Disulfoton	ND	U	5.2	5.2	1	05/12/03	05/23/03	JWG0300695	
Dinoseb	ND	U	5.2	1.3	1	05/12/03	05/23/03	JWG0300695	
Di-n-butyl Phthalate	ND	U	5.2	1.4	1	05/12/03	05/23/03	JWG0300695	
Methyl Parathion	ND	U	11	6.2	1	05/12/03	05/23/03	JWG0300695	
Fluoranthene	ND	U	5.2	1.4	1	05/12/03	05/23/03	JWG0300695	
Parathion	ND	U	21	5.6	1	05/12/03	05/23/03	JWG0300695	
4-Nitroquinoline N-Oxide	ND	U	5.2	1.8	1	05/12/03	05/23/03	JWG0300695	
Pyrene	ND	U	5.2	1.4	1	05/12/03	05/23/03	JWG0300695	
Methapyrilene	ND	U	5.2	3.7	1	05/12/03	05/23/03	JWG0300695	
Isodrin	ND	U	11	5.8	1	05/12/03	05/23/03	JWG0300695	
Aramite, Total	ND	U	21	8.6	1	05/12/03	05/23/03	JWG0300695	
3,3'-Dimethylbenzidine	ND	U	21	0.62	1	05/12/03	05/23/03	JWG0300695	
Butyl Benzyl Phthalate	ND	U	11	1.3	1	05/12/03	05/23/03	JWG0300695	*

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	JA Jones Management Services	**Service Request:**	J2300871
Project:	NSB Kings Bay/Site 11	**Date Collected:**	05/06/2003
Sample Matrix:	Water	**Date Received:**	05/08/2003

Semi-Volatile Organic Compounds by GC/MS (Appendix IX)

Sample Name:	KBA-11-11A-MAY-03	**Units:**	ug/L
Lab Code:	J2300871-001	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8270C		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
p-Dimethylaminoazobenzene	ND	U	5.2	1.8	1	05/12/03	05/23/03	JWG0300695	
Chlorobenzilate	ND	U	11	6.1	1	05/12/03	05/23/03	JWG0300695	
Benz(a)anthracene	ND	U	5.2	1.4	1	05/12/03	05/23/03	JWG0300695	
3,3'-Dichlorobenzidine	ND	U	21	3.9	1	05/12/03	05/23/03	JWG0300695	
Famphur	ND	U	11	6.5	1	05/12/03	05/23/03	JWG0300695	
Chrysene	ND	U	5.2	1.4	1	05/12/03	05/23/03	JWG0300695	
Kepone	ND	U	52	24	1	05/12/03	05/23/03	JWG0300695	
Bis(2-ethylhexyl) Phthalate	ND	U	11	1.3	1	05/12/03	05/23/03	JWG0300695	
2-Acetylaminofluorene	ND	U	5.2	2.0	1	05/12/03	05/23/03	JWG0300695	
Di-n-octyl Phthalate	ND	U	21	1.5	1	05/12/03	05/23/03	JWG0300695	
Benzo(b)fluoranthene	ND	U	5.2	2.0	1	05/12/03	05/23/03	JWG0300695	
Benzo(k)fluoranthene	ND	U	5.2	1.5	1	05/12/03	05/23/03	JWG0300695	
Benzo(a)pyrene	ND	U	5.2	1.8	1	05/12/03	05/23/03	JWG0300695	
7,12-Dimethylbenz(a)anthracene	ND	U	5.2	1.5	1	05/12/03	05/23/03	JWG0300695	
Hexachlorophene	ND	U	110	110	1	05/12/03	05/23/03	JWG0300695	
Indeno(1,2,3-cd)pyrene	ND	U	5.2	1.3	1	05/12/03	05/23/03	JWG0300695	
Dibenz(a,h)anthracene	ND	U	5.2	1.8	1	05/12/03	05/23/03	JWG0300695	
3-Methylcholanthrene	ND	U	5.2	1.6	1	05/12/03	05/23/03	JWG0300695	
Benzo(g,h,i)perylene	ND	U	5.2	1.8	1	05/12/03	05/23/03	JWG0300695	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4,6-Tribromophenol	53	26-122	05/23/03	Acceptable
2-Fluorobiphenyl	53	32-98	05/23/03	Acceptable
2-Fluorophenol	25	10-76	05/23/03	Acceptable
Nitrobenzene-d5	44	43-106	05/23/03	Acceptable
Phenol-d6	15	10-59	05/23/03	Acceptable
Terphenyl-d14	69	10-130	05/23/03	Acceptable

Comments:

Client:	JA Jones Management Services	**Service Request:**	J2300871
Project:	NSB Kings Bay/Site 11	**Date Collected:**	05/06/2003
Sample Matrix:	Water	**Date Received:**	05/08/2003

Semi-Volatile Organic Compounds by GC/MS (Appendix IX)

Sample Name:	KBA-11-11A-MAY-03	**Units:**	ug/L
Lab Code:	J2300871-001	**Basis:**	NA

† **Analyte Comments**

4-Methylphenol	This analyte cannot be separated from 3-Methylphenol.
N-Nitrosodiphenylamine	This analyte can not be separated from Diphenylamine.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	JA Jones Management Services	**Service Request:**	J2300871
Project:	NSB Kings Bay/Site 11	**Date Collected:**	05/06/2003
Sample Matrix:	Water	**Date Received:**	05/08/2003

Semi-Volatile Organic Compounds by GC/MS (Appendix IX)

Sample Name:	KBA-11-13A-MAY-03	**Units:**	ug/L
Lab Code:	J2300871-002	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8270C		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pyridine	ND	U	20	2.0	1	05/12/03	05/23/03	JWG0300695	
N-Nitrosodimethylamine	ND	U	5.0	0.50	1	05/12/03	05/23/03	JWG0300695	
2-Picoline	ND	U	5.0	0.50	1	05/12/03	05/23/03	JWG0300695	
N-Nitrosomethylethylamine	ND	U	5.0	0.59	1	05/12/03	05/23/03	JWG0300695	
Methyl Methanesulfonate	ND	U	5.0	0.59	1	05/12/03	05/23/03	JWG0300695	
N-Nitrosodiethylamine	ND	U	5.0	0.95	1	05/12/03	05/23/03	JWG0300695	
Ethyl Methanesulfonate	ND	U	5.0	0.83	1	05/12/03	05/23/03	JWG0300695	
Aniline	ND	U	5.0	0.50	1	05/12/03	05/23/03	JWG0300695	
Phenol	ND	U	5.0	0.50	1	05/12/03	05/23/03	JWG0300695	
Bis(2-chloroethyl) Ether	ND	U	5.0	1.0	1	05/12/03	05/23/03	JWG0300695	
2-Chlorophenol	ND	U	5.0	0.85	1	05/12/03	05/23/03	JWG0300695	
1,3-Dichlorobenzene	ND	U	5.0	0.98	1	05/12/03	05/23/03	JWG0300695	
1,4-Dichlorobenzene	ND	U	5.0	0.98	1	05/12/03	05/23/03	JWG0300695	
Benzyl alcohol	ND	U	5.0	0.82	1	05/12/03	05/23/03	JWG0300695	
1,2-Dichlorobenzene	ND	U	5.0	1.1	1	05/12/03	05/23/03	JWG0300695	
2-Methylphenol	ND	U	5.0	0.72	1	05/12/03	05/23/03	JWG0300695	
Bis(2-chloroisopropyl) Ether	ND	U	5.0	1.1	1	05/12/03	05/23/03	JWG0300695	
Pentachloroethane	ND	U	20	5.8	1	05/12/03	05/23/03	JWG0300695	
Acetophenone	ND	U	10	5.6	1	05/12/03	05/23/03	JWG0300695	
4-Methylphenol†	ND	U	5.0	1.2	1	05/12/03	05/23/03	JWG0300695	
N-Nitrosodi-n-propylamine	ND	U	5.0	1.0	1	05/12/03	05/23/03	JWG0300695	
Hexachloroethane	ND	U	5.0	0.96	1	05/12/03	05/23/03	JWG0300695	
Nitrobenzene	ND	U	5.0	0.91	1	05/12/03	05/23/03	JWG0300695	
o-Toluidine	ND	U	5.0	0.72	1	05/12/03	05/23/03	JWG0300695	
Isophorone	ND	U	5.0	1.1	1	05/12/03	05/23/03	JWG0300695	
2-Nitrophenol	ND	U	20	1.0	1	05/12/03	05/23/03	JWG0300695	
2,4-Dimethylphenol	ND	U	5.0	0.93	1	05/12/03	05/23/03	JWG0300695	
N-Nitrosopyrrolidine	ND	U	5.0	0.79	1	05/12/03	05/23/03	JWG0300695	
bis(2-Chloroethoxy)methane	ND	U	5.0	1.1	1	05/12/03	05/23/03	JWG0300695	
N-Nitrosomorpholine	ND	U	5.0	0.82	1	05/12/03	05/23/03	JWG0300695	
2,4-Dichlorophenol	ND	U	5.0	1.2	1	05/12/03	05/23/03	JWG0300695	
1,2,4-Trichlorobenzene	ND	U	5.0	1.1	1	05/12/03	05/23/03	JWG0300695	
Naphthalene	**5.6**		5.0	1.1	1	05/12/03	05/23/03	JWG0300695	
N-Nitrosopiperidine	ND	U	5.0	1.1	1	05/12/03	05/23/03	JWG0300695	

Comments:

Client: JA Jones Management Services
Project: NSB Kings Bay/Site 11
Sample Matrix: Water

Service Request: J2300871
Date Collected: 05/06/2003
Date Received: 05/08/2003

Semi-Volatile Organic Compounds by GC/MS (Appendix IX)

Sample Name: KBA-11-13A-MAY-03
Lab Code: J2300871-002

Units: ug/L
Basis: NA

Extraction Method: EPA 3510C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
4-Chloroaniline	ND	U	5.0	0.58	1	05/12/03	05/23/03	JWG0300695	
2,6-Dichlorophenol	ND	U	10	1.2	1	05/12/03	05/23/03	JWG0300695	
Hexachlorobutadiene	ND	U	5.0	1.2	1	05/12/03	05/23/03	JWG0300695	
O,O,O-Triethyl Phosphorothioate	ND	U	20	4.9	1	05/12/03	05/23/03	JWG0300695	
4-Chloro-3-methylphenol	ND	U	5.0	1.1	1	05/12/03	05/23/03	JWG0300695	
Hexachloropropene	ND	U	5.0	1.3	1	05/12/03	05/23/03	JWG0300695	
2-Methylnaphthalene	ND	U	5.0	1.2	1	05/12/03	05/23/03	JWG0300695	
a,a-Dimethylphenethylamine	ND	U	20	1.9	1	05/12/03	05/23/03	JWG0300695	
Hexachlorocyclopentadiene	ND	U	5.0	1.7	1	05/12/03	05/23/03	JWG0300695	
p-Phenylenediamine	ND	U	20	20	1	05/12/03	05/23/03	JWG0300695	
N-Nitrosodi-n-butylamine	ND	U	5.0	1.6	1	05/12/03	05/23/03	JWG0300695	
2,4,6-Trichlorophenol	ND	U	5.0	1.1	1	05/12/03	05/23/03	JWG0300695	
2,4,5-Trichlorophenol	ND	U	5.0	1.4	1	05/12/03	05/23/03	JWG0300695	
1,2,4,5-Tetrachlorobenzene	ND	U	5.0	1.4	1	05/12/03	05/23/03	JWG0300695	
Safrole	ND	U	5.0	1.4	1	05/12/03	05/23/03	JWG0300695	
2-Chloronaphthalene	ND	U	5.0	1.3	1	05/12/03	05/23/03	JWG0300695	
2-Nitroaniline	ND	U	5.0	1.1	1	05/12/03	05/23/03	JWG0300695	
Dimethyl Phthalate	ND	U	5.0	1.4	1	05/12/03	05/23/03	JWG0300695	
Acenaphthylene	ND	U	5.0	1.2	1	05/12/03	05/23/03	JWG0300695	
2,6-Dinitrotoluene	ND	U	5.0	1.4	1	05/12/03	05/23/03	JWG0300695	
Isosafrole	ND	U	5.0	1.4	1	05/12/03	05/23/03	JWG0300695	
3-Nitroaniline	ND	U	5.0	1.2	1	05/12/03	05/23/03	JWG0300695	
Acenaphthene	ND	U	5.0	1.2	1	05/12/03	05/23/03	JWG0300695	
2,4-Dinitrophenol	ND	U	20	7.4	1	05/12/03	05/23/03	JWG0300695	
1,4-Naphthoquinone	ND	U	10	7.2	1	05/12/03	05/23/03	JWG0300695	
Dibenzofuran	ND	U	5.0	1.2	1	05/12/03	05/23/03	JWG0300695	
4-Nitrophenol	ND	U	20	3.0	1	05/12/03	05/23/03	JWG0300695	
2,4-Dinitrotoluene	ND	U	5.0	1.3	1	05/12/03	05/23/03	JWG0300695	
1,3-Dinitrobenzene	ND	U	10	5.5	1	05/12/03	05/23/03	JWG0300695	
Fluorene	ND	U	5.0	1.3	1	05/12/03	05/23/03	JWG0300695	
Diethyl Phthalate	ND	U	5.0	1.3	1	05/12/03	05/23/03	JWG0300695	
4-Chlorophenyl Phenyl Ether	ND	U	5.0	1.3	1	05/12/03	05/23/03	JWG0300695	
4-Nitroaniline	ND	U	5.0	1.0	1	05/12/03	05/23/03	JWG0300695	
2-Methyl-4,6-dinitrophenol	ND	U	20	5.7	1	05/12/03	05/23/03	JWG0300695	

Comments:

Client: JA Jones Management Services
Project: NSB Kings Bay/Site 11
Sample Matrix: Water

Service Request: J2300871
Date Collected: 05/06/2003
Date Received: 05/08/2003

Semi-Volatile Organic Compounds by GC/MS (Appendix IX)

Sample Name: KBA-11-13A-MAY-03
Lab Code: J2300871-002

Units: ug/L
Basis: NA

Extraction Method: EPA 3510C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodiphenylamine†	ND	U	5.0	3.9	1	05/12/03	05/23/03	JWG0300695	
Pentachlorobenzene	ND	U	5.0	1.5	1	05/12/03	05/23/03	JWG0300695	
2-Naphthylamine	ND	U	5.0	1.0	1	05/12/03	05/23/03	JWG0300695	
5-Nitro-o-toluidine	ND	U	5.0	1.4	1	05/12/03	05/23/03	JWG0300695	
2,3,4,6-Tetrachlorophenol	ND	U	10	6.2	1	05/12/03	05/23/03	JWG0300695	
1-Naphthylamine	ND	U	5.0	0.93	1	05/12/03	05/23/03	JWG0300695	
4-Bromophenyl Phenyl Ether	ND	U	5.0	1.3	1	05/12/03	05/23/03	JWG0300695	
Thionazin	ND	U	10	5.5	1	05/12/03	05/23/03	JWG0300695	
Hexachlorobenzene	ND	U	5.0	1.3	1	05/12/03	05/23/03	JWG0300695	
Pentachlorophenol	ND	U	20	6.0	1	05/12/03	05/23/03	JWG0300695	
Sulfotep	ND	U	10	6.4	1	05/12/03	05/23/03	JWG0300695	
Phenanthrene	ND	U	5.0	1.2	1	05/12/03	05/23/03	JWG0300695	
Phorate	ND	U	5.0	4.6	1	05/12/03	05/23/03	JWG0300695	
1,3,5-Trinitrobenzene	ND	U	5.0	3.0	1	05/12/03	05/23/03	JWG0300695	
Anthracene	ND	U	5.0	1.3	1	05/12/03	05/23/03	JWG0300695	
4-Aminobiphenyl	ND	U	5.0	1.2	1	05/12/03	05/23/03	JWG0300695	
Phenacetin	ND	U	5.0	1.2	1	05/12/03	05/23/03	JWG0300695	
Diallate	ND	U	5.0	5.0	1	05/12/03	05/23/03	JWG0300695	
Dimethoate	ND	U	5.0	4.1	1	05/12/03	05/23/03	JWG0300695	
Pentachloronitrobenzene	ND	U	5.0	1.5	1	05/12/03	05/23/03	JWG0300695	
Pronamide	ND	U	20	19	1	05/12/03	05/23/03	JWG0300695	
Disulfoton	ND	U	5.0	5.0	1	05/12/03	05/23/03	JWG0300695	
Dinoseb	ND	U	5.0	1.2	1	05/12/03	05/23/03	JWG0300695	
Di-n-butyl Phthalate	ND	U	5.0	1.3	1	05/12/03	05/23/03	JWG0300695	
Methyl Parathion	ND	U	10	6.0	1	05/12/03	05/23/03	JWG0300695	
Fluoranthene	ND	U	5.0	1.3	1	05/12/03	05/23/03	JWG0300695	
Parathion	ND	U	20	5.4	1	05/12/03	05/23/03	JWG0300695	
4-Nitroquinoline N-Oxide	ND	U	5.0	1.7	1	05/12/03	05/23/03	JWG0300695	
Pyrene	ND	U	5.0	1.3	1	05/12/03	05/23/03	JWG0300695	
Methapyrilene	ND	U	5.0	3.6	1	05/12/03	05/23/03	JWG0300695	
Isodrin	ND	U	10	5.6	1	05/12/03	05/23/03	JWG0300695	
Aramite, Total	ND	U	20	8.4	1	05/12/03	05/23/03	JWG0300695	
3,3'-Dimethylbenzidine	ND	U	20	0.60	1	05/12/03	05/23/03	JWG0300695	
Butyl Benzyl Phthalate	ND	U	10	1.2	1	05/12/03	05/23/03	JWG0300695	*

Comments:

Client: JA Jones Management Services
Project: NSB Kings Bay/Site 11
Sample Matrix: Water

Service Request: J2300871
Date Collected: 05/06/2003
Date Received: 05/08/2003

Semi-Volatile Organic Compounds by GC/MS (Appendix IX)

Sample Name: KBA-11-13A-MAY-03
Lab Code: J2300871-002

Units: ug/L
Basis: NA

Extraction Method: EPA 3510C
Analysis Method: 8270C

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
p-Dimethylaminoazobenzene	ND	U	5.0	1.7	1	05/12/03	05/23/03	JWG0300695	
Chlorobenzilate	ND	U	10	5.9	1	05/12/03	05/23/03	JWG0300695	
Benz(a)anthracene	ND	U	5.0	1.3	1	05/12/03	05/23/03	JWG0300695	
3,3'-Dichlorobenzidine	ND	U	20	3.8	1	05/12/03	05/23/03	JWG0300695	
Famphur	ND	U	10	6.3	1	05/12/03	05/23/03	JWG0300695	
Chrysene	ND	U	5.0	1.3	1	05/12/03	05/23/03	JWG0300695	
Kepone	ND	U	50	23	1	05/12/03	05/23/03	JWG0300695	
Bis(2-ethylhexyl) Phthalate	ND	U	10	1.2	1	05/12/03	05/23/03	JWG0300695	
2-Acetylaminofluorene	ND	U	5.0	1.9	1	05/12/03	05/23/03	JWG0300695	
Di-n-octyl Phthalate	ND	U	20	1.4	1	05/12/03	05/23/03	JWG0300695	
Benzo(b)fluoranthene	ND	U	5.0	1.9	1	05/12/03	05/23/03	JWG0300695	
Benzo(k)fluoranthene	ND	U	5.0	1.4	1	05/12/03	05/23/03	JWG0300695	
Benzo(a)pyrene	ND	U	5.0	1.7	1	05/12/03	05/23/03	JWG0300695	
7,12-Dimethylbenz(a)anthracene	ND	U	5.0	1.4	1	05/12/03	05/23/03	JWG0300695	
Hexachlorophene	ND	U	100	100	1	05/12/03	05/23/03	JWG0300695	
Indeno(1,2,3-cd)pyrene	ND	U	5.0	1.2	1	05/12/03	05/23/03	JWG0300695	
Dibenz(a,h)anthracene	ND	U	5.0	1.7	1	05/12/03	05/23/03	JWG0300695	
3-Methylcholanthrene	ND	U	5.0	1.5	1	05/12/03	05/23/03	JWG0300695	
Benzo(g,h,i)perylene	ND	U	5.0	1.7	1	05/12/03	05/23/03	JWG0300695	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4,6-Tribromophenol	70	26-122	05/23/03	Acceptable
2-Fluorobiphenyl	58	32-98	05/23/03	Acceptable
2-Fluorophenol	35	10-76	05/23/03	Acceptable
Nitrobenzene-d5	34	43-106	05/23/03	Outside Control Limits
Phenol-d6	28	10-59	05/23/03	Acceptable
Terphenyl-d14	43	10-130	05/23/03	Acceptable

Comments:

Client:	JA Jones Management Services	**Service Request:**	J2300871
Project:	NSB Kings Bay/Site 11	**Date Collected:**	05/06/2003
Sample Matrix:	Water	**Date Received:**	05/08/2003

Semi-Volatile Organic Compounds by GC/MS (Appendix IX)

Sample Name:	KBA-11-13A-MAY-03	**Units:**	ug/L
Lab Code:	J2300871-002	**Basis:**	NA

† **Analyte Comments**

4-Methylphenol	This analyte cannot be separated from 3-Methylphenol.
N-Nitrosodiphenylamine	This analyte can not be separated from Diphenylamine.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: JA Jones Management Services
Project: NSB Kings Bay/Site 11
Sample Matrix: Water

Service Request: J2300871
Date Collected: 05/06/2003
Date Received: 05/08/2003

Organochlorine Pesticides by GC-ECD

Sample Name: KBA-11-11A-MAY-03
Lab Code: J2300871-001

Units: ug/L
Basis: NA

Extraction Method: EPA 3510C
Analysis Method: 8081A

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
alpha-BHC	ND	U	0.021	0.0051	1	05/12/03	05/23/03	JWG0300696	
gamma-BHC (Lindane)	ND	U	0.021	0.0034	1	05/12/03	05/23/03	JWG0300696	
beta-BHC	ND	U	0.021	0.017	1	05/12/03	05/23/03	JWG0300696	
delta-BHC	ND	U	0.021	0.0020	1	05/12/03	05/23/03	JWG0300696	
Heptachlor	ND	U	0.021	0.0020	1	05/12/03	05/23/03	JWG0300696	
Aldrin	ND	U	0.021	0.0098	1	05/12/03	05/23/03	JWG0300696	
Heptachlor Epoxide	ND	U	0.021	0.0031	1	05/12/03	05/23/03	JWG0300696	
gamma-Chlordane	ND	U	0.021	0.0053	1	05/12/03	05/23/03	JWG0300696	
alpha-Chlordane	ND	U	0.021	0.011	1	05/12/03	05/23/03	JWG0300696	
4,4'-DDE	ND	U	0.021	0.0042	1	05/12/03	05/23/03	JWG0300696	
Endosulfan I	ND	U	0.021	0.0066	1	05/12/03	05/23/03	JWG0300696	
Dieldrin	ND	U	0.021	0.0048	1	05/12/03	05/23/03	JWG0300696	
Endrin	ND	U	0.021	0.0089	1	05/12/03	05/23/03	JWG0300696	
4,4'-DDD	ND	U	0.021	0.0024	1	05/12/03	05/23/03	JWG0300696	
Endosulfan II	ND	U	0.021	0.0072	1	05/12/03	05/23/03	JWG0300696	*
4,4'-DDT	ND	U	0.021	0.0032	1	05/12/03	05/23/03	JWG0300696	*
Endrin Aldehyde	ND	U	0.021	0.0047	1	05/12/03	05/23/03	JWG0300696	
Methoxychlor	ND	U	0.041	0.0043	1	05/12/03	05/23/03	JWG0300696	*
Endosulfan Sulfate	ND	U	0.021	0.0051	1	05/12/03	05/23/03	JWG0300696	
Endrin Ketone	ND	U	0.021	0.0020	1	05/12/03	05/23/03	JWG0300696	*
Toxaphene	ND	U	0.50	0.50	1	05/12/03	05/23/03	JWG0300696	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tetrachloro-m-xylene	72	35-93	05/23/03	Acceptable
Decachlorobiphenyl	47	28-95	05/23/03	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: JA Jones Management Services
Project: NSB Kings Bay/Site 11
Sample Matrix: Water

Service Request: J2300871
Date Collected: 05/06/2003
Date Received: 05/08/2003

Organochlorine Pesticides by GC-ECD

Sample Name: KBA-11-13A-MAY-03
Lab Code: J2300871-002

Units: ug/L
Basis: NA

Extraction Method: EPA 3510C
Analysis Method: 8081A

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
alpha-BHC	ND	U	0.021	0.0051	1	05/12/03	05/23/03	JWG0300696	
gamma-BHC (Lindane)	ND	U	0.021	0.0034	1	05/12/03	05/23/03	JWG0300696	
beta-BHC	ND	U	0.021	0.017	1	05/12/03	05/23/03	JWG0300696	
delta-BHC	ND	U	0.021	0.0020	1	05/12/03	05/23/03	JWG0300696	
Heptachlor	ND	U	0.021	0.0020	1	05/12/03	05/23/03	JWG0300696	
Aldrin	ND	U	0.021	0.0098	1	05/12/03	05/23/03	JWG0300696	
Heptachlor Epoxide	ND	U	0.021	0.0031	1	05/12/03	05/23/03	JWG0300696	
gamma-Chlordane	ND	U	0.021	0.0053	1	05/12/03	05/23/03	JWG0300696	
alpha-Chlordane	ND	U	0.021	0.011	1	05/12/03	05/23/03	JWG0300696	
4,4'-DDE	ND	U	0.021	0.0042	1	05/12/03	05/23/03	JWG0300696	
Endosulfan I	ND	U	0.021	0.0066	1	05/12/03	05/23/03	JWG0300696	
Dieldrin	ND	U	0.021	0.0048	1	05/12/03	05/23/03	JWG0300696	
Endrin	ND	U	0.021	0.0089	1	05/12/03	05/23/03	JWG0300696	
4,4'-DDD	ND	U	0.021	0.0024	1	05/12/03	05/23/03	JWG0300696	
Endosulfan II	ND	U	0.021	0.0072	1	05/12/03	05/23/03	JWG0300696	*
4,4'-DDT	ND	U	0.021	0.0032	1	05/12/03	05/23/03	JWG0300696	*
Endrin Aldehyde	ND	U	0.021	0.0047	1	05/12/03	05/23/03	JWG0300696	
Methoxychlor	ND	U	0.042	0.0043	1	05/12/03	05/23/03	JWG0300696	*
Endosulfan Sulfate	ND	U	0.021	0.0051	1	05/12/03	05/23/03	JWG0300696	
Endrin Ketone	ND	U	0.021	0.0020	1	05/12/03	05/23/03	JWG0300696	*
Toxaphene	ND	U	0.50	0.50	1	05/12/03	05/23/03	JWG0300696	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tetrachloro-m-xylene	73	35-93	05/23/03	Acceptable
Decachlorobiphenyl	54	28-95	05/23/03	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: JA Jones Management Services
Project: NSB Kings Bay/Site 11
Sample Matrix: Water

Service Request: J2300871
Date Collected: 05/06/2003
Date Received: 05/08/2003

Polychlorinated Biphenyls (PCB Aroclors) by GC-ECD

Sample Name: KBA-11-11A-MAY-03
Lab Code: J2300871-001

Units: ug/L
Basis: NA

Extraction Method: EPA 3510C
Analysis Method: 8082A

Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.51	0.075	1	05/12/03	05/20/03	JWG0300697	
Aroclor 1221	ND	U	0.51	0.088	1	05/12/03	05/20/03	JWG0300697	
Aroclor 1232	ND	U	0.51	0.088	1	05/12/03	05/20/03	JWG0300697	
Aroclor 1242	ND	U	0.51	0.075	1	05/12/03	05/20/03	JWG0300697	
Aroclor 1248	ND	U	0.51	0.088	1	05/12/03	05/20/03	JWG0300697	
Aroclor 1254	ND	U	0.51	0.063	1	05/12/03	05/20/03	JWG0300697	
Aroclor 1260	ND	U	0.51	0.054	1	05/12/03	05/20/03	JWG0300697	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	52	28-95	05/20/03	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	JA Jones Management Services	**Service Request:**	J2300871
Project:	NSB Kings Bay/Site 11	**Date Collected:**	05/06/2003
Sample Matrix:	Water	**Date Received:**	05/08/2003

Polychlorinated Biphenyls (PCB Aroclors) by GC-ECD

Sample Name:	KBA-11-13A-MAY-03	**Units:**	ug/L
Lab Code:	J2300871-002	**Basis:**	NA
Extraction Method:	EPA 3510C	**Level:**	Low
Analysis Method:	8082A		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.53	0.078	1	05/12/03	05/20/03	JWG0300697	
Aroclor 1221	ND	U	0.53	0.091	1	05/12/03	05/20/03	JWG0300697	
Aroclor 1232	ND	U	0.53	0.091	1	05/12/03	05/20/03	JWG0300697	
Aroclor 1242	ND	U	0.53	0.078	1	05/12/03	05/20/03	JWG0300697	
Aroclor 1248	ND	U	0.53	0.091	1	05/12/03	05/20/03	JWG0300697	
Aroclor 1254	ND	U	0.53	0.065	1	05/12/03	05/20/03	JWG0300697	
Aroclor 1260	ND	U	0.53	0.056	1	05/12/03	05/20/03	JWG0300697	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	41	28-95	05/20/03	Acceptable

Comments:

TOTAL METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

KBA-11-11A-MAY-03

Contract: JA Jones Management Services

Lab Code: CAS JAX Case No.: Site 11 SAS No.: SDG NO.: J2300871

Matrix (soil/water): WATER Lab Sample ID: J2300871-001

Level (low/med): LOW Date Received: 05/08/2003

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): µG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	0.070	U		MS
7440-38-2	Arsenic	0.240	U		MS
7440-39-3	Barium	7.280			MS
7440-41-7	Beryllium	0.030	U		MS
7440-43-9	Cadmium	0.070	U		MS
7440-47-3	Chromium	0.755	B		MS
7440-48-4	Cobalt	0.030	U		MS
7440-50-8	Copper	0.742	B		MS
7439-92-1	Lead	0.620	U		MS
7439-97-6	Mercury	0.130	U		CV
7440-02-0	Nickel	0.295	B		MS
7782-49-2	Selenium	0.370	U		MS
7440-22-4	Silver	0.020	U		MS
7440-28-0	Thallium	0.036	U		MS
7440-31-5	Tin	0.128	B		MS
7440-62-2	Vanadium	0.800	U		MS
7440-66-6	Zinc	8.50	U		MS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

TOTAL METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

KBA-11-13A-MAY-03

Contract: JA Jones Management Services

Lab Code: CAS JAX Case No.: Site 11 SAS No.: SDG NO.: J2300871

Matrix (soil/water): WATER Lab Sample ID: J2300871-002

Level (low/med): LOW Date Received: 05/08/2003

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): µG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	0.085	B		MS
7440-38-2	Arsenic	0.776			MS
7440-39-3	Barium	38.0			MS
7440-41-7	Beryllium	1.780			MS
7440-43-9	Cadmium	0.070	U		MS
7440-47-3	Chromium	5.130			MS
7440-48-4	Cobalt	29.1			MS
7440-50-8	Copper	0.425	B		MS
7439-92-1	Lead	0.620	U		MS
7439-97-6	Mercury	0.650	U		CV
7440-02-0	Nickel	82.2			MS
7782-49-2	Selenium	1.020	B		MS
7440-22-4	Silver	0.020	U		MS
7440-28-0	Thallium	0.036	U		MS
7440-31-5	Tin	0.203	B		MS
7440-62-2	Vanadium	4.390	B		MS
7440-66-6	Zinc	120			MS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	JA Jones Management Services	**Service Request:**	J2300871
Project:	NSB Kings Bay/Site 11	**Date Collected:**	5/6/2003
Sample Matrix:	Water	**Date Received:**	5/8/2003

Inorganic Parameters

Sample Name: KBA-11-11A-MAY-03
Lab Code: J2300871-001 Basis: NA
Test Notes:

Analyte	Units	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Cyanide, Total	mg/L (ppm)	4500CN-E	0.02	2	NA	5/16/2003	U	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	JA Jones Management Services	**Service Request:**	J2300871
Project:	NSB Kings Bay/Site 11	**Date Collected:**	5/6/2003
Sample Matrix:	Water	**Date Received:**	5/8/2003

Inorganic Parameters

Sample Name: KBA-11-13A-MAY-03
Lab Code: J2300871-002 Basis: NA
Test Notes:

Analyte	Units	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Cyanide, Total	mg/L (ppm)	4500CN-E	0.02	2	NA	5/16/2003	U	

ELAB, Inc.

Date: *22-May-03*

CLIENT:	Columbia Analytical Services	**Client Sample ID:**	J2300871-1
Lab Order:	F03050262	**Collection Date:**	5/6/2003 9:00:00 AM
Project:	J2300871	**Sample Description:**	J2300871-1
Lab ID:	F03050262-001	**Matrix:**	Waste Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SULFIDE	**E376.1**	PrepDate:			Batch ID: **R14887**	Analyst: **TSHE**
Sulfide	ND	0.18		mg/L	1.8	5/12/2003
8151: HERBICIDES, CHLORINATED BY GC	**SW8151**	PrepDate: **5/12/2003**			Batch ID: **10972**	Analyst: **EM**
2,4-D	ND	0.11		µg/L	1	5/16/2003
Dinoseb	ND	0.21		µg/L	1	5/16/2003
Pentachlorophenol	ND	0.042		µg/L	1	5/16/2003
2,4,5-T	ND	0.21		µg/L	1	5/16/2003
2,4,5-TP (Silvex)	ND	0.21		µg/L	1	5/16/2003
Surr: DCAA	78.0			%REC	1	5/16/2003

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

ELAB, Inc.

Date: *22-May-03*

CLIENT:	Columbia Analytical Services	**Client Sample ID:**	J2300871-2
Lab Order:	F03050262	**Collection Date:**	5/6/2003 10:20:00 AM
Project:	J2300871	**Sample Description:**	J2300871-2
Lab ID:	F03050262-002	**Matrix:**	Waste Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SULFIDE	**E376.1**	PrepDate:			Batch ID: **R14887**	Analyst: **TSHE**
Sulfide	ND	0.33		mg/L	3.3	5/12/2003
8151: HERBICIDES, CHLORINATED BY GC	**SW8151**	PrepDate:		**5/12/2003**	Batch ID: **10972**	Analyst: **EM**
2,4-D	ND	0.11		µg/L	1	5/16/2003
Dinoseb	ND	0.21		µg/L	1	5/16/2003
Pentachlorophenol	ND	0.042		µg/L	1	5/16/2003
2,4,5-T	ND	0.21		µg/L	1	5/16/2003
2,4,5-TP (Silvex)	ND	0.21		µg/L	1	5/16/2003
Surr: DCAA	80.3			%REC	1	5/16/2003

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Form 1

PCDD/PCDF ANALYSIS DATA SHEET
Use for Sample and Blank Results

CLIENT ID.
KBA-11-11A-MAY-03

Lab Name: Columbia Analytical Services Episode No.:

Lab Code: CAS SDG No.: Method: 8280 Lab Sample ID: E2300275-001A

Client Name: JA JONES Sample Wt/Vol: 960 g or mL: mL

Matrix (aqueous/solid/leachate): Aqueous Initial Calibration Date: 10/17/02

Sample Receipt Date: 05/09/03 Instrument ID: VG70S

Ext. Date: 05/12/03 GC Column:db5

Ext. Vol(ul): 100.0 Inj. Vol(ul): 1.0 Sample Data Filename: C11385#7

Analysis Date: 15-MAY-03 Time: 16:18:05 Blank Data Filename: C11385#4

Dilution Factor: 1 Cal. Ver. Data Filename: C11385#1

Concentration Units (ng/L or ug/Kg dry weight): ng/L % Moisture:

ANALYTE	CONCENTRATION FOUND	DETECTION LIMIT	Qual. (1)	ION ABUND. RATIO (2)	RRT (2)	MEAN RRF
2,3,7,8-TCDD	*	0.007	U	*	*	0.86
1,2,3,7,8-PeCDD	*	0.009	U	*	*	0.78
1,2,3,4,7,8-HxCDD	*	0.007	U	*	*	0.91
1,2,3,6,7,8-HxCDD	*	0.006	U	*	*	1.02
1,2,3,7,8,9-HxCDD	*	0.006	U	*	*	1.03
1,2,3,4,6,7,8-HpCDD	*	0.007	U	*	*	0.86
OCDD	*	0.011	U	*	*	1.25
2,3,7,8-TCDF	*	0.008	U	*	*	1.13
1,2,3,7,8-PeCDF	*	0.009	U	*	*	0.95
2,3,4,7,8-PeCDF	*	0.009	U	*	*	0.93
1,2,3,4,7,8-HxCDF	*	0.004	U	*	*	1.12
1,2,3,6,7,8-HxCDF	*	0.004	U	*	*	1.17
1,2,3,7,8,9-HxCDF	*	0.005	U	*	*	0.91
2,3,4,6,7,8-HxCDF	*	0.004	U	*	*	1.09
1,2,3,4,6,7,8-HpCDF	*	0.006	U	*	*	0.95
1,2,3,4,7,8,9-HpCDF	*	0.007	U	*	*	0.74
OCDF	*	0.015	U	*	*	1.65
Total Tetra-Dioxins	*	0.007	U			
Total Penta-Dioxins	*	0.009	U			
Total Hexa-Dioxins	*	0.007	U			
Total Hepta-Dioxins	*	0.007	U			
Total Tetra-Furans	*	0.008	U			
Total Penta-Furans	*	0.009	U			
Total Hexa-Furans	*	0.004	U			
Total Hepta-Furans	*	0.006	U			

(1) Qualifiers: See flag definitions.
(2) Ion ratios and RRTS are specified in Tables 9 and 10, Method 8280A.

8280F1H

Form 1

PCDD/PCDF ANALYSIS DATA SHEET
Use for Sample and Blank Results

CLIENT ID.
KBA-11-13A-MAY-03

Lab Name: Columbia Analytical Services Episode No.:

Lab Code: CAS SDG No.: Method: 8280 Lab Sample ID: E2300275-002A

Client Name: JA JONES Sample Wt/Vol: 970 g or mL: mL

Matrix (aqueous/solid/leachate): Aqueous Initial Calibration Date: 10/17/02

Sample Receipt Date: 05/09/03 Instrument ID: VG70S

Ext. Date: 05/12/03 GC Column:db5

Ext. Vol(ul): 100.0 Inj. Vol(ul): 1.0 Sample Data Filename: C11385#8

Analysis Date: 15-MAY-03 Time: 17:10:32 Blank Data Filename: C11385#4

Dilution Factor: 1 Cal. Ver. Data Filename: C11385#1

Concentration Units (ng/L or ug/Kg dry weight): ng/L % Moisture:

ANALYTE	CONCENTRATION FOUND	DETECTION LIMIT	Qual. (1)	ION ABUND. RATIO (2)	RRT (2)	MEAN RRF
2,3,7,8-TCDD	*	0.007	U	*	*	0.86
1,2,3,7,8-PeCDD	*	0.009	U	*	*	0.78
1,2,3,4,7,8-HxCDD	*	0.007	U	*	*	0.91
1,2,3,6,7,8-HxCDD	*	0.006	U	*	*	1.02
1,2,3,7,8,9-HxCDD	*	0.006	U	*	*	1.03
1,2,3,4,6,7,8-HpCDD	*	0.007	U	*	*	0.86
OCDD	*	0.011	U	*	*	1.25
2,3,7,8-TCDF	*	0.009	U	*	*	1.13
1,2,3,7,8-PeCDF	*	0.009	U	*	*	0.95
2,3,4,7,8-PeCDF	*	0.009	U	*	*	0.93
1,2,3,4,7,8-HxCDF	*	0.004	U	*	*	1.12
1,2,3,6,7,8-HxCDF	*	0.004	U	*	*	1.17
1,2,3,7,8,9-HxCDF	*	0.005	U	*	*	0.91
2,3,4,6,7,8-HxCDF	*	0.005	U	*	*	1.09
1,2,3,4,6,7,8-HpCDF	*	0.007	U	*	*	0.95
1,2,3,4,7,8,9-HpCDF	*	0.008	U	*	*	0.74
OCDF	*	0.011	U	*	*	1.65
Total Tetra-Dioxins	*	0.007	U			
Total Penta-Dioxins	*	0.009	U			
Total Hexa-Dioxins	*	0.007	U			
Total Hepta-Dioxins	*	0.007	U			
Total Tetra-Furans	*	0.009	U			
Total Penta-Furans	*	0.009	U			
Total Hexa-Furans	*	0.004	U			
Total Hepta-Furans	*	0.007	U			

(1) Qualifiers: See flag definitions.
(2) Ion ratios and RRTS are specified in Tables 9 and 10, Method 8280A.

8280F1H