MILLER BROOKS
Environmental, Inc.

July 29, 2004

Mr. David Bacharowski
Mr. Peter Raftery
Los Angeles Regional Water Quality Control Board
320 West 4th Street, Suite 200
Los Angeles, California 90013

SITE: GREENPARK RUNKLE CANYON DEVELOPMENT
VENTURA COUNTY, CALIFORNIA

SUBJECT: SUPPLEMENTAL SITE ASSESSMENT REPORT FOR GROUNDWATER INVESTIGATION ACTIVITIES

Dear Mr. Backarowski and Mr. Raftery:

Miller Brooks Environmental, Inc. (Miller Brooks), on behalf of GreenPark Runkle Canyon, LLC (GreenPark) is pleased to submit this Supplemental Site Assessment Report for the onsite groundwater investigation activities conducted at the GreenPark Runkle Canyon Development in Ventura County, California. Work activities were conducted in response to the Los Angeles Regional Water Quality Control Board (LARWQCB) correspondence dated February 26, 2004 (LARWQCB, 2004) that requested additional assessments of groundwater beneath the site. The workplan outlining the assessment activities was approved by the LARWQCB on April 15, 2004. The focus of the additional assessment was to determine the presence or absence of specific volatile organic compounds (VOCs; i.e., trichloroethylene [TCE]), perchlorate and n-nitrosodimethylamine (NDMA) in the groundwater at these well locations.

1.0 SITE AND VICINITY DESCRIPTION

The Property is located within an area of undeveloped land referred to as Runkle Canyon, located at the terminus of Sequoia Avenue in the City of Simi Valley in Ventura County, California. The Property consists of three land parcels totaling approximately 1,615 acres. The Property is identified by the Ventura County's Assessors office as Parcel Numbers 685-130-180, 634-010-495, 685-040-075, 658-040-095, 658-040-100, 658-040-140, 685-040-165, 685-040-190, 685-040-200, 685-040-210, 685-040-220, 685-040-240, 685-051-225, 658-051-230, 658-130-160, and 685-040-255. There is no known street address for the subject Property. The Property location is shown on Figure 1.

SITE ASSESSMENT ACTIVITIES

Drilling, Soil Sampling, and Monitoring Well Installation

In accordance with the approved workplan, Miller Brooks installed two groundwater monitoring wells (MW-1 and MW-2; Figure 2), on May 17 and 18, 2004, to further assess groundwater conditions proximal to the location of previous Borings HS-25 and HS-26, respectively. The wellbores were drilled using a hollow-stem auger drilling rig. The groundwater monitoring wells were constructed of 2-inch diameter, Schedule 40, polyvinyl chloride (PVC) casing with screened casing intervals extending from approximately 45 feet to 60 feet bgs in Well MW-1 and approximately 30 feet to 45 feet below ground surface (bgs) in Well MW-2. All well installation activities were conducted in accordance with State and County guidelines, and all work

was performed under the supervision of a California Registered Geologist. In addition, prior to installation of the wells, the necessary well permit was obtained from the County of Ventura and a copy of the permit is included as Appendix A. The LARWQCB was notified prior to commencing the well installation activities.

Soil samples were collected at 5-foot depth intervals for soil description, field hydrocarbon vapor screening, and possible laboratory analysis. Prior to drilling, Underground Service Alert was notified and each location was cleared to approximately 5 feet bgs using a hand auger to avoid damage to possible underground utilities. A description of general field procedures is included with the boring logs and well construction details in Appendix B.

Soil generated during drilling activities was stored onsite in labeled, Department of Transportation (DOT)-approved 55-gallon drums and transported to Demenno Kerdoon, a soil recycling facility located in Compton, California. A copy of the non-hazardous waste manifest is included in Appendix C.

Well Development and Groundwater Sampling

Following installation on May 17 and 18, 2004, the groundwater monitoring wells were developed using a combination of surging and bailing techniques. Groundwater was not found in Well MW-1 following installation. Following the instructions of the LARWQCB, 30 gallons of water from a municipal supply was added to the well to aid in the development. After surging, the water was removed using a bailer. A description of the general field procedures is included with the well development data sheets in Appendix B.

On May 24, 2004, Miller Brooks conducted gauging and sampling activities. Fluid levels were measured in Wells MW-1 and MW-2 using an electronic water level meter. Groundwater samples were collected from each well following purging. During purging activities, groundwater was monitored for temperature, pH, and conductivity to show stabilization prior to sampling. Following purging and stabilization of the measured groundwater parameters, groundwater samples were collected in accordance with standard regulatory protocol. Groundwater sampling activities were conducted approximately 72 hours following well development activities. Refer to Appendix B for a description of general field procedures, and copies of the groundwater monitoring and purging data sheets. Duplicate samples were collected from Wells MW-1 and MW-2 and were designated DUP-1 and DUP-2, respectively.

Groundwater generated during well development and sampling activities was temporarily stored onsite in labeled, DOT-approved, 55-gallon drums and was transported offsite for recycling at Demenno Kerdoon in Compton, California. A copy of the non-hazardous waste manifest is included in Appendix C.

Laboratory Analysis

In accordance with LARWQCB requirements, the groundwater samples were analyzed for VOCs using Environmental Protection Agency (EPA) Method 8260B, perchlorate using EPA Methods 314 and 8321 (or equivalent), and NDMA using EPA Method 1625C. Chain of custody protocol was followed for all samples selected for laboratory analyses and the samples were transported to Severn Trent Laboratory in Sacramento, California. Due to the close proximity to the previous borings, the soil samples collected from the wellbores were not analyzed by the laboratory. Results of laboratory analysis of groundwater samples are presented in Table 1. Copies of the official laboratory reports and chain of custody records are included in Appendix D.

The laboratory reports were also reviewed by Laboratory Data Consultants, Inc. to assess the validity of the laboratory analysis. A copy of the assessment of the data is included in Appendix E. The municipal supply water that was added to Well MW-1 was analyzed for VOCs using EPA Method 8260B and the results are included in Appendix F.

FINDINGS

Sediments encountered in the well bores generally consist of interbedded silty sand or sandy silt, sand with gravel, and clay to 35 feet bgs. From approximately 35 to 60 feet bgs, a siltstone representing the Santa Susana Formation was identified in Well MW-1. During drilling, groundwater was found in the well bore of MW-2 at a depth of approximately 35 feet bgs. As stated above, groundwater was not found in MW-1 during installation of the well. Prior to purging on May 24, 2004, groundwater was measured at a depth of 43.82 feet bgs in Well MW-1 and 33.85 feet bgs in Well MW-2.

Results of laboratory analysis of groundwater samples collected on May 24, 2004 during this investigation are summarized in Table 1 and indicated the following:

- The samples collected from Well MW-1 (MW-1 and DUP-1) did not contain detectable concentrations of TCE. The samples did contain VOCs that are found in tap water and/or naturally occurring and included: bromomethane, bromochloromethane, chloroform, bromodichloromethane, dibromochloromethane and bromoform. The samples collected from Well MW-2 (MW-2 and DUP-2) did not contain detectable concentrations of TCE. The samples did contain VOCs that are naturally occurring and included: chloroform and bromodichloromethane. The sample collected from the municipal supply water, that was placed in Well MW-1 during development, contained concentrations of the following VOCs: bromodichloromethane, bromoform, chlorodibromomethane, and chloroform. The trip blank did not contain detectable concentrations of VOCs. (Note: The samples collected from Well MW-1 also contained detectable concentrations of methylene chloride. However, methylene chloride is a common laboratory solvent and is most likely the result of cross-contamination during laboratory analysis of the sample.)

- The samples collected from Wells MW-1 (MW-1 and DUP-1) and MW-2 (MW-2 and DUP-2) did not contain detectable concentrations of perchlorate.

- The samples collected from Well MW-1 (MW-1 and DUP-1) were reported to contain concentrations of NDMA at 3.2 nanograms per liter (ng/L) and 3.5 ng/L, respectively. The data assessment stated that the concentrations of NDMA reported in the samples collected from Well MW-1 should be considered suspect based on method blank contamination and internal standard failures (Appendix F). The samples collected from Well MW-2 did not contain detectable concentrations of NDMA.

CONCLUSIONS

The VOCs detected in Wells MW-1 and MW-2 were at very low concentrations and are not chemicals of concern. There were no concentrations of perchlorate detected in the wells. The concentrations of NDMA reported in samples collected from Well MW-1 are suspect and should be qualified as non-detected concentrations.

PROPOSED WORK ACTIVITIES

Miller Brooks conducted additional sampling of the monitoring wells on June 22, 2004. The results of this sampling event will be submitted to the LARWQCB in August 2004.

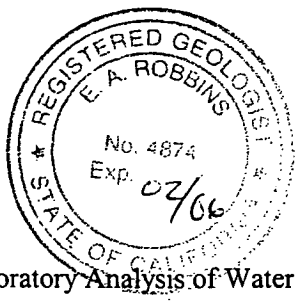
STATEMENT OF LIMITATIONS AND PROFESSIONAL CERTIFICATION

This report was prepared for the sole use of Paul Hastings, Janofsky and Walker, LLP and GreenPark. Any other use without the express written consent of Miller Brooks is prohibited. The conclusions herein are based solely upon the agreed written scope of work outlined in this report. Miller Brooks makes no warranties or guarantees as to the accuracy or completeness of information provided or compiled by others. It is possible that information exists beyond the scope of this investigation. Additional information that was not found or available to Miller Brooks at the time of writing this report, may result in modification of the conclusions presented. This report is not a legal opinion. The services performed by Miller Brooks have been conducted in a manner consistent with the level of care ordinarily exercised by members of our profession currently practicing under similar conditions. No other warranty, expressed or implied, is made.

This investigation was supervised or personally conducted by the licensed professional whose signature and license number appears below.

Jennifer Canfield
Senior Project Geologist

Elizabeth A. Robbins, RG 4874
Senior Geologist



Attachments:
Table 1 - Results of Laboratory Analysis of Water Samples
Figure 1 - Vicinity Map
Figure 2 - Site Plan Showing Groundwater Sample Locations
Appendix A – Well Permit
Appendix B – General Field Procedures, Boring Logs, Well Construction Details and Field Data Sheets
Appendix C – Non-hazardous Waste Manifests
Appendix D – Laboratory Report of Groundwater Samples
Appendix E – Assessment of NDMA Data
Appendix F – Laboratory Report of Municipal Water Sample

REFERENCES

Los Angeles California Regional Water Quality Control Board, 2004, California Water Code Section 13267, Request for Historical and Current Site Information – GreenPark Runkle Canyon Development, Ventura County, California, February 26.

TABLE

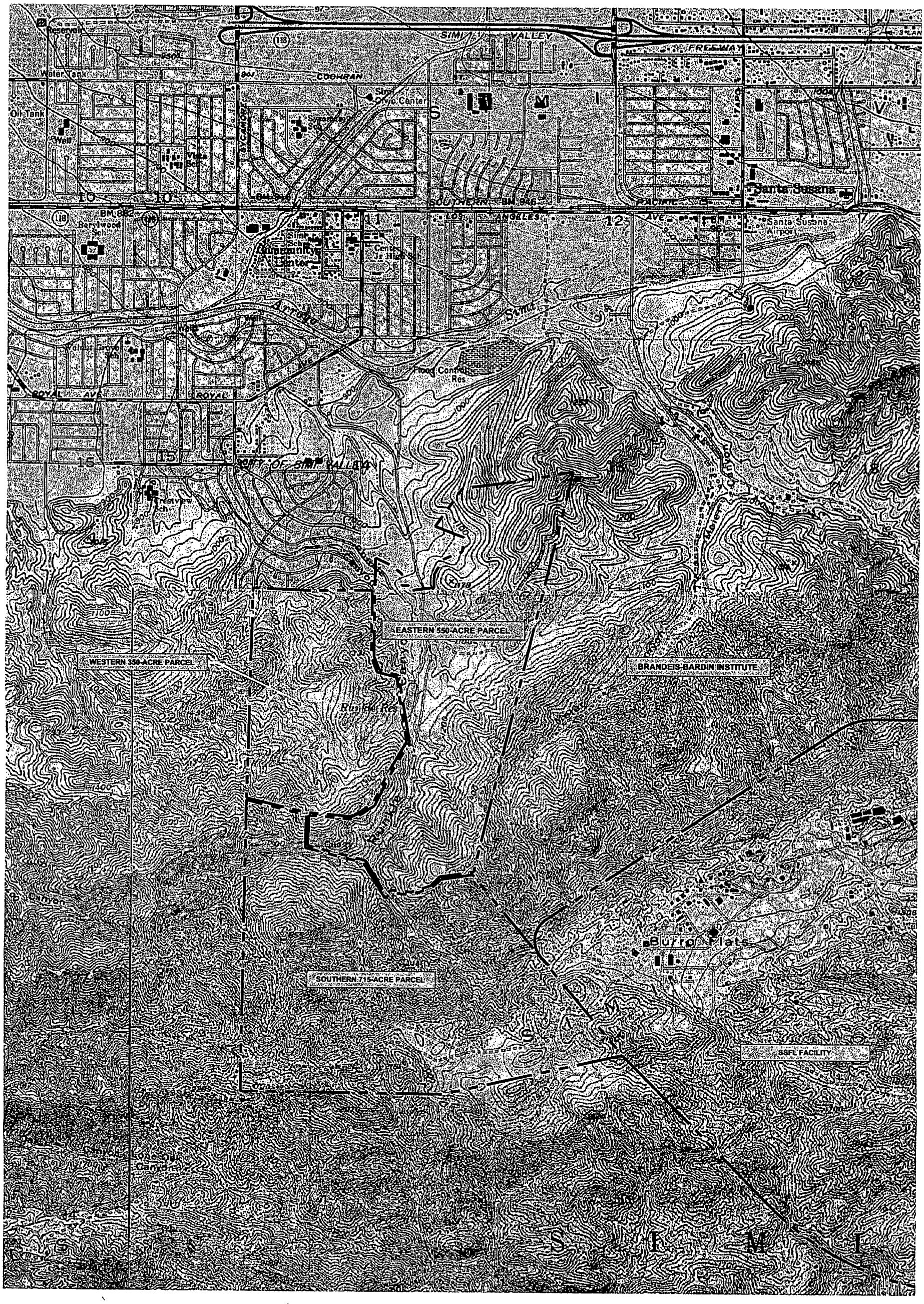
TABLE 1
RESULTS OF LABORATORY ANALYSIS OF GROUNDWATER SAMPLES - May 24, 2004
Runkle Canyon
Simi Valley, California

Sample ID	VOCs EPA Method 8260 (µg/L)	Perchlorate EPA Method 8321A (µg/L)	Perchlorate EPA Method 314.0 (µg/L)	NDMA EPA Method 1625M (ng/L)
MW-1	**Bromomethane 0.37J** **Methylene Chloride 0.46J** **Bromochloromethane 0.50J** **Chloroform 3.6** **Bromodichloromethane 2.2** **Dibromochloromethane 2.0** **Bromoform 0.47J** Remaining VOCs ND<1.0-2.0	ND<0.50	ND<2.0	**3.2***
DUP-1	**Bromomethane 0.35J** **Methylene Chloride 0.49J** **Bromochloromethane 0.48J** **Chloroform 3.6** **Bromodichloromethane 2.4** **Dibromochloromethane 2.2** **Bromoform 0.55J** Remaining VOCs ND<1.0-2.0	ND<0.50	ND<2.0	**3.5***
MW-2	**Chloroform 0.29J** **Bromodichloromethane 0.27J** Remaining VOCs ND<1.0-2.0	ND<0.50	ND<2.0	ND<2.0
DUP-2	**Chloroform 0.36J** **Bromodichloromethane 0.32J** Remaining VOCs ND<1.0-2.0	ND<0.50	ND<5.0	ND<2.0
Trip Blank	ND<1.0-2.0	NA	NA	NA

Notes:
VOCs = volatile organic compounds
EPA = Environmental Protection Agency
M = modified
µg/L = micrograms per liter
NDMA = n-nitrosodimethylamine
ng/L = nanograms per liter
Bold = detected concentrations
J = Estimated: result is less than detection limit
ND = not detected at limit indicated
NA = not analyzed

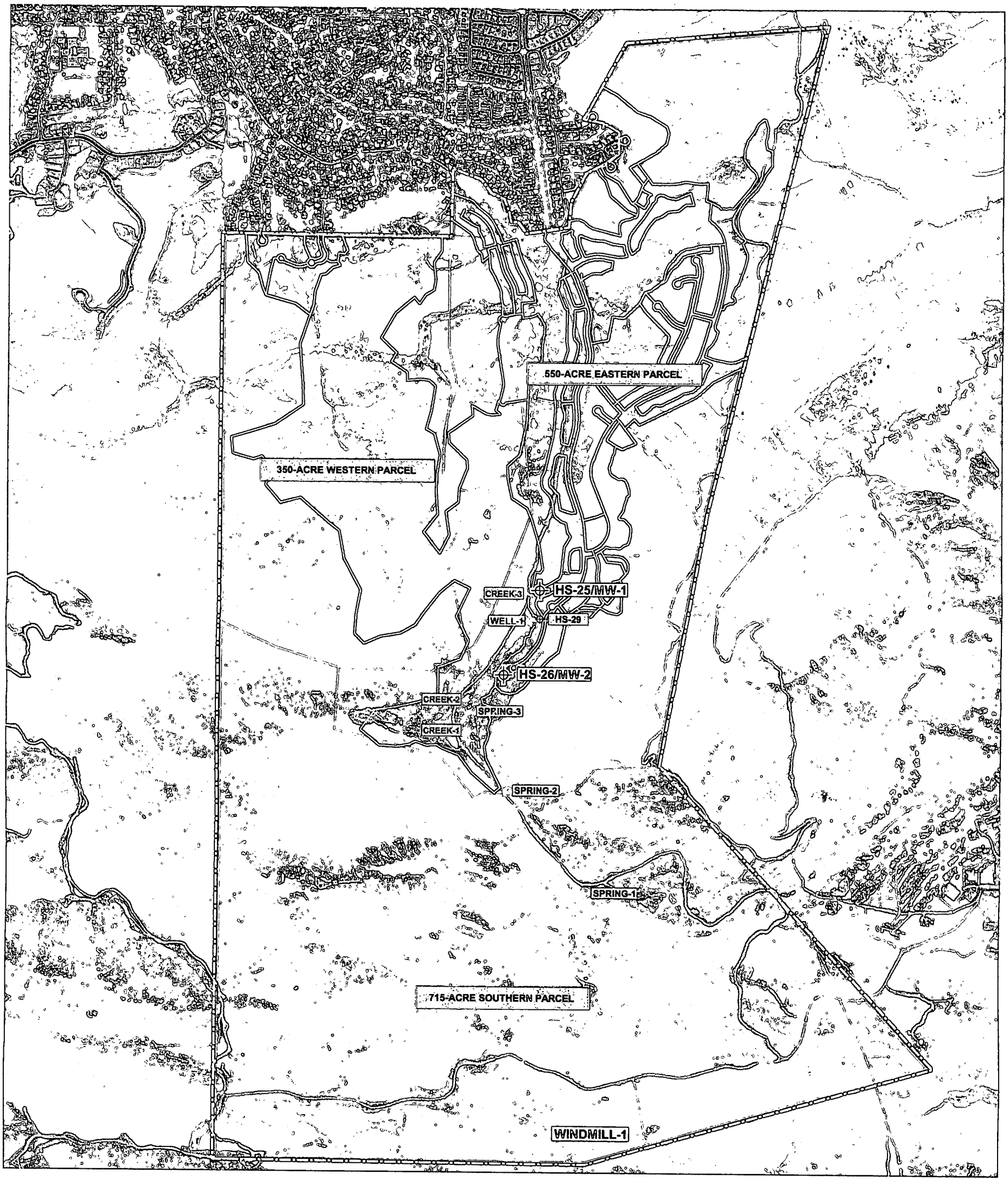
*** According to Laboratory Data Consultants, Inc.: The NDMA concentrations reported in samples MW-1 and DUP-1 should be considered suspect based upon method blank contamination and internal standard failures (See Appendix E).**

FIGURES



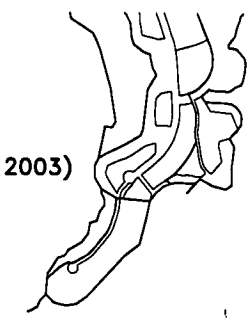
MILLER BROOKS Environmental, Inc.	DRAWN BY: PEL	VICINITY MAP	FIGURE 1
	DATE: 11/21/02		
	REVISED BY: DCN		
2124 MAIN STREET, SUITE 200 HUNTINGTON BEACH, CA. 92648 (714) 960-4088	REVISED: 08/28/03	RUNKLE CANYON PROPERTY SIMI VALLEY, CA.	
	APPROVED BY: EAR		
PROJECT NO. 01-406-0002-02	DATE: 08/28/03	FILE: K:\DWGS\RUNKLE RANCH\VICINITY MAP [F1C] DATE PLOTTED: 08/28/03	

tb-b2.dwg-09/21/00



LEGEND

- HS-25/MW-1 — GROUNDWATER MONITORING WELL
- WELL-1 — FORMER GROUNDWATER MONITORING WELL
- CREEK-3 — SURFACE WATER SAMPLE LOCATION (MARCH 2003)
- HS-29 — SOIL BORING LOCATION WITH GROUNDWATER SAMPLE (JANUARY 2003)
- WINDMILL-1 — WATER SAMPLE FROM WINDMILL STORAGE TANK
- SPRING-1 — SURFACE WATER SAMPLE LOCATION (MAY 2003)
- PARCEL BOUNDARY
- PROPERTY BOUNDARY



PROPOSED DEVELOPMENT

N W E S

0 1200 FEET

SCALE

MILLER BROOKS Environmental, Inc.

2124 MAIN STREET, SUITE 200
HUNTINGTON BEACH, CA. 92648
(714) 960-4088

PROJECT NO. 01-402-0002-04

DRAWN BY: AIL
DATE: 06/05/03
REVISED BY: PEL
REVISED: 07/23/04
APPROVED BY: EAR
DATE: 07/23/04

SITE PLAN SHOWING
SURFACE WATER AND
GROUNDWATER SAMPLE LOCATIONS

RUNKLE CANYON PROPERTY
SIMI VALLEY, CA.

FILE: K:\DWGS\RUNKLE CANYON\SAR\SP_11x17

DATE PLOTTED: 07/23/04

FIGURE 2

APPENDIX A

Permit No. **5736**
Page 1 of 2

County of Ventura
WELL PERMIT
800 South Victoria Avenue; Ventura, CA 93009

	Well Owner	Driller	Registered Inspector
Name	Green Park Runkle Canyon LLC	Gregg Drilling	Miller Brooks Environmental
Address	3010 Old Ranch Parkway, Ste 330 Seal Beach, CA 90740	2726 Walnut St. Signal Hill, CA 90806	2124 Main St., Ste 200 Huntington Beach, CA 92648
Telephone	(562) 446-4100	(562) 427-6899	(714) 960-4088 FAX 960-2462

Type of Work	Monitoring Well – New (2)	Sealing Zone	1	Main Use	Monitoring
SWN (Partial)	02N18W23K	ID	NA	APN	685-0-040-240
Fee	$320.00	Receipt No.	5768	Prep by:	Barbara Council

Conditions

1. Permit issue and expiration dates are as follows:

   Issue Date: 04/20/04
   Expiration Date: 10/20/04

2. Well Owner, Driller ("Contractor") and Registered Inspector shall comply with all provisions of Ventura County Well Ordinance No. 4184, and all applicable State of California and local regulations pertaining to well construction, repair, modification and destruction.

3. Work shall be performed by a licensed water well contractor (C-57), who must also be registered with the Water Resources & Development Department ("Department").

4. All work shall be inspected by a licensed Civil Engineer, Registered Geologist or Certified Engineering Geologist, who must also be registered with the Water Resources and Development Department ("Department").

5. Contractor shall retain all drilling fluids and groundwater discharges within the drilling site, unless an NPDES permit has been obtained from the California Regional Water Quality Control Board, Los Angeles Region. The NPDES permit shall be obtained prior to drilling operations.

6. Sealing Requirements:

   a. Bentonite clay chips, neat cement or cement grout annular sealing material shall be placed **from the top of the perforations to 2 ft. below ground surface.**

Bentonite chips shall be hydrated while placed and shall be placed by means of a grout pipe positioned within 2 feet of the base of the sealing zone. If the sealing depth is 25 feet or less, bentonite chips may be placed by free-fall method.

All cement sealing material shall be placed by means of a grout pipe positioned within 2 feet of the base of the sealing zone. For Sealing Zones 1 and 2, if the standing water level in the casing is below the base of the sealing zone and the sealing depth is 25 feet or less, a grout pipe will not be necessary.

   b. Diameter of the well bore shall be a minimum of 4 inches larger than the outside diameter of the casing for the full depth of seal.

   c. Neat cement or cement grout annular sealing material shall be placed from a depth of 2 ft to ground surface.

7. Post Requirements:

   a. Inspection Documents: Within 30 days after work is completed, Well Owner shall submit inspection documents consisting of a Registered Inspector's Well Sealing Report, a well location map, and a detailed well log for each monitoring well. The well log shall show lithology, well construction details, and any available information relating to water

County of Ventura
WELL PERMIT
800 South Victoria Avenue; Ventura, CA 93009

quality and quantity. Mail to County of Ventura – Public Works Agency, Water Resources and Development Department; Attn Barbara Council (Re: MW Documents); 800 South Victoria Avenue; Ventura, Ca. 93009-1600. **Failure to submit documents within 30 days will preclude Well Owner and Registered Inspector from obtaining future permits until report is received and may result in the issuance of a Notice of Non-Compliance.**

b. Monitoring Well Destruction: **Upon completion of the monitoring program, Well Owner shall take immediate action to obtain a separate well destruction permit and destroy all monitoring wells on this permit.**

8. The information contained in the Application for Well Permit becomes a part of this permit.

Manager, Water Resources Division _____ Date 4/20/04

RECEIPT NO. 5768

PUBLIC WORKS AGENCY
WATER RESOURCES AND DEVELOPMENT DEPARTMENT
WATER RESOURCES DIVISION

RECEIVED FROM: Miller Brooks Environmental, Inc **DATE** 20-Apr-04
ADDRESS: 2124 Main St. Suite 200
CITY Huntington Beach, CA 92648-6450

FLOOD CONTROL REVENUE 1700-PFA-6300-8771-P029

$320.00	P6029551	WATER WELL PERMIT NUMBER 5736
		LOCATION: Runkle Canyon
		OWNER: Green Park Runkle Canyon, LLC
$0.00	P6029552	RE-USE PERMITS
$0.00	P6029575	HYDROGEOLOGY REPORT
$0.00	P6029574	TECHNICAL INFO. REPORT
$0.00	P6029574	GEOHYDROLOGY - VENTURA RIVER REPORT
$0.00	P6029576	QUADRENNIAL REPORT (FY85-FY90)
$0.00	P6029576	QUADRENNIAL REPORT (FY91)
$0.00	P6029599	PHOTO COPYING
$0.00	P6029553	WATER WELL PUMP TEST FEES
$0.00	P6029599	OTHER MANUAL/REPORTS/ SALES

FOX CANYON GMA REVENUE 7305-GMA-6650-9772-P029

$0.00	P6020901	GMA PUMPING CHARGES
$0.00	P6020902	WELL DESTRUCTION FUND
$0.00	P6020903	GMA SURCHARGES
$0.00	P6020901	GMA WELL MAP
$0.00	P6020901	OTHER SALES
$0.00	5340-7176	CA. SALES TAX
$320.00		**TOTAL RECEIPT**

NOTES
Permit for installation of 2 monitoring wells.

CASH: _____ **CHECK NO:** 38271 **RECEIVED BY:** Barbara Council

ID# 0

APPENDIX B

APPENDIX B

GENERAL FIELD PROCEDURES, BORING LOGS, WELL CONSTRUCTION DETAILS, AND FIELD DATA SHEETS

DRILLING AND SOIL SAMPLING

Soil borings are drilled using continuous-flight, hollow-stem augers. Soil excavated from the hollow-stem auger borings is contained in sealed, labeled, Department of Transportation (DOT) approved, 55-gallon drums or labeled, sealed, roll-off bins, and stored onsite pending appropriate disposal. Borings that are not completed as vadose or groundwater monitoring wells are grouted to within 2 feet of the ground surface with bentonite, and finished to the surface with asphalt or concrete to match the existing grade.

Soil samples are obtained from each boring for soil description, field hydrocarbon vapor screening, and possible laboratory analysis. Soil samples are retrieved from the borings at 5-foot depth intervals using a standard penetration split-spoon sampler lined with three 2-inch diameter brass sample inserts. The sampler is driven approximately 18 inches beyond the lead auger with a 140-pound hammer dropped from a height of 30 inches.

Upon retrieval, soil samples are immediately removed from the sampler, sealed with Teflon sheeting and polyurethane caps. Each sample is labeled with the project number, boring number, sample depth, geologist's initials, and date of collection. After the samples have been labeled and documented in the chain of custody record, they are either delivered to an onsite mobile laboratory for immediate analysis or placed in a cooler with ice at approximately 4 degrees Celsius for transport to an offsite state-certified laboratory. Samples not selected for immediate analysis may be transported in a cooler with ice and archived in a frostless refrigerator at approximately 4 degrees Celsius for possible future testing.

During sampling activities, soil adjacent to the laboratory sample is screened for organic vapors using a photo-ionization detector (PID). For each vapor screening event, a sample tube is filled approximately 1/3 full with the soil sample, capped at both ends, and shaken. The PID probe is then inserted through a small opening in the cap, and a reading is taken after approximately 15 seconds and recorded on the boring log. The remaining soil recovered is removed from the sample tube and described in accordance with the Unified Soil Classification System. For each sampling interval, field estimates of soil type, color, density/consistency, moisture, and grading are recorded on the boring logs.

MONITORING WELL INSTALLATION

Groundwater monitoring wells are constructed of 2-inch diameter, flush-threaded, Schedule 40, polyvinyl chloride (PVC) blank and screened casing (0.010-inch screen slot size). Groundwater monitoring wells typically extend up to 10 feet above and at least 10 to 15 feet below the groundwater surface, provided that no competent clay layer is penetrated. The annular space surrounding the screened casing intervals is backfilled with Number 2/12 Monterey sand (filter pack) to approximately 2 feet above the top of the screened section. During groundwater monitoring well construction, the filter pack is completed by surging with a rig-mounted surge block.

A 3-foot thick bentonite annular seal is placed above the well filter pack. The remaining annular space is sealed with a bentonite grout to the surface. Monument boxes with concrete aprons are installed above grade at the surface, and locked to prevent unauthorized access to the well.

FLUID-LEVEL MONITORING

Fluid levels are monitored in the well using an electronic interface probe with conductance sensors. The presence of liquid-phase hydrocarbons is verified using a hydrocarbon-reactive paste. The depth to liquid-phase hydrocarbons and water is measured relative to the top of casing.

GROUNDWATER PURGING AND SAMPLING

Groundwater monitoring wells are purged and sampled in accordance with standard regulatory protocol. During purging activities, temperature, pH, and specific conductance are typically measured. Purging is considered complete when these parameters vary less than 10 percent from previous readings, or when four casing volumes of fluid have been removed. Samples are collected without further purging if the well does not recharge within 2 hours to 80 percent of its volume before purging. Monitoring wells containing liquid-phase hydrocarbons are typically not sampled.

The purged water is either pumped directly into a licensed vacuum truck or temporarily stored in labeled, Department of Transportation approved 55-gallon drums prior to transport to an appropriate disposal/recycling facility.

Groundwater samples are collected by lowering a 1.5-inch diameter, bottom-fill, disposable polyethylene bailer just below the static water level in the well. The samples are carefully transferred from the bailer to 1-liter and/or 40-milliliter glass containers. The sample containers are filled to zero headspace and fitted with Teflon-sealed caps. Samples are labeled with the project number, well number, sample date, and sampler's initials. Samples are chilled at approximately 4 degrees Celsius prior to analysis by a state-certified laboratory.

CHAIN OF CUSTODY PROTOCOL

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

DECONTAMINATION

Drilling equipment is decontaminated by steam cleaning before being brought onsite. Prior to use, the sampler and sampling tubes are brush-scrubbed in a Liqui-nox and potable water solution, and rinsed twice in clean potable water. Sampling equipment and tubes are also decontaminated before each sample is collected to avoid cross-contamination between borings.

Groundwater purging and sampling equipment that could come into contact with well fluids is either dedicated to a well or cleaned prior to each use in a Liqui-nox solution followed by two tap water rinses.

PROJECT NAME:			SITE LOCATION:	
RUNKLE CANYON			SIMI VALLEY, CALIFORNIA	
DRILLING COMPANY:	DRILL RIG:		DRILL CREW:	DATE DRILLED:
GREGG DRILLING	MOBILE B-53		MITCH, KEITH, ERVILLE	MAY 17, 2004
DRILLING METHOD:	BORING DIAMETER (IN):	TOTAL DEPTH OF BORING (FT):		LOGGED BY:
HOLLOW-STEM AUGER	8	61.5		J. CANFIELD
SAMPLING METHOD:	HAMMER WEIGHT (LBS):	HAMMER DROP (IN):		REVIEWED BY:
SPLIT-SPOON	140	30		E. A. ROBBINS

DEPTH (FT)	SAMPLE LOCATION	SAMPLE ID	BLOWS PER 6 IN	PID (ppm)	GRAPHIC LOG	USCS SOIL GROUP	DESCRIPTION OF SUBSURFACE MATERIALS
0						SM	Dirt surface; hand-augered to 5 feet below ground surface.
5							SILTY SAND: pale brown (10YR 6/3); fine- to medium-grained; dry.
						SP	
10			8/9/8	0.2			POORLY GRADED SAND with GRAVEL: brown (10YR 4/3); fine- to medium-grained; fine to coarse gravel; dry; medium dense.
						SM	
15			9/10/12	0.0			SILTY SAND: olive gray (5Y 4/2) and brown (10YR 5/3); fine-grained; trace clay; dry; medium dense.
20			12/15/15	0.0			Few clay.
25			6/6/7	0.6			Dark yellowish brown (10YR 4/4); trace gravel.
						CL	
30			7/9/9	0.2			LEAN CLAY: olive brown (2.5Y 4/3); medium to high plasticity; no to slow dilatancy; medium toughness; trace fine-grained sand; moist; firm.
35			10/10/12	1.2			Few fine-grained sand.
40			50(3")				SANTA SUSANA FORMATION: olive gray siltstone.

NOTES:

- ☐ = sample interval
- ☒ = no sample recovery
- ▬ = laboratory sample
- ▽ = groundwater first encountered
- ▼ = static groundwater
- PID = photoionization detector
- NM = not measured
- NA = not applicable
- NR = not recorded
- ppm = parts per million

E. A. ROBBINS, R.G. 4874

MILLER BROOKS Environmental, Inc.

LOG OF BORING MW-1

PROJECT NUMBER 01-402-0002-04

LOG_OF_BORING_LBY BORELBL.GPJ MBE.GDT 6/1/04

PROJECT NAME:		SITE LOCATION:		
RUNKLE CANYON		SIMI VALLEY, CALIFORNIA		
DRILLING COMPANY:	DRILL RIG:	DRILL CREW:		DATE DRILLED:
GREGG DRILLING	MOBILE B-53	MITCH, KEITH, ERVILLE		MAY 17, 2004
DRILLING METHOD:	BORING DIAMETER (IN):	TOTAL DEPTH OF BORING (FT):		LOGGED BY:
HOLLOW-STEM AUGER	8	61.5		J. CANFIELD
SAMPLING METHOD:	HAMMER WEIGHT (LBS):	HAMMER DROP (IN):		REVIEWED BY:
SPLIT-SPOON	140	30		E. A. ROBBINS

DEPTH (FT)	SAMPLE LOCATION	SAMPLE ID	BLOWS PER 6 IN	PID (ppm)	GRAPHIC LOG	USCS SOIL GROUP	DESCRIPTION OF SUBSURFACE MATERIALS
45			50(5.5")50(2")	0.0			
50			50(4")50(2")	0.0			
55			50(6")50(1")				
60			50(4")50(3")				
							Boring terminated at approximately 61.5 feet below ground surface due to auger refusal at approximately 61 feet below ground surface.

NOTES:
- ☐ = sample interval
- ☒ = no sample recovery
- ▬ = laboratory sample
- ▽ = groundwater first encountered
- ▼ = static groundwater
- PID = photoionization detector
- NM = not measured
- NA = not applicable
- NR = not recorded
- ppm = parts per million

E. A. ROBBINS, R.G. 4874

MILLER BROOKS Environmental, Inc.

LOG OF BORING MW-1

PROJECT NUMBER 01-402-0002-04

LOG_OF_BORING_LBY BORELBL.GPJ MBE.GDT 6/1/04

PROJECT NAME:		SITE LOCATION:	
RUNKLE CANYON		SIMI VALLEY, CALIFORNIA	
DRILLING COMPANY:	DRILL RIG:	DRILL CREW:	DATE DRILLED:
GREGG DRILLING	MOBILE B-53	MITCH, KEITH, ERVILLE	MAY 18, 2004
DRILLING METHOD:	BORING DIAMETER (IN):	TOTAL DEPTH OF BORING (FT):	LOGGED BY:
HOLLOW-STEM AUGER	8	45.0	J. CANFIELD
SAMPLING METHOD:	HAMMER WEIGHT (LBS):	HAMMER DROP (IN):	REVIEWED BY:
SPLIT-SPOON	140	30	E. A. ROBBINS

DEPTH (FT)	SAMPLE LOCATION	SAMPLE ID	BLOWS PER 6 IN	PID (ppm)	GRAPHIC LOG	USCS SOIL GROUP	DESCRIPTION OF SUBSURFACE MATERIALS
0						SM	Dirt surface. SILTY SAND: pale brown (10YR 6/3); fine- to medium-grained; few clay; dry.
10			7/7/8	0.6			Brown (7.5YR 4/3); fine-grained; loose.
15			6/8/9	0.0		MH	SANDY SILT: brown (7.5YR 4/3); low to medium plasticity; no dilatancy; low to medium toughness; fine-grained sand; moist; firm.
20			4/7/9	0.7		SM	SILTY SAND: brown (10YR 6/3); fine-grained; moist; medium dense.
25			5/6/6	1.0			Loose.
30			6/9/13	0.3		MH	SANDY SILT: brown (10YR 6/3); low to medium plasticity; no dilatancy; low toughness; fine-grained sand; few clay; moist; firm.
35			7/7/9	1.2	▽		Minor clay; saturated; iron oxide staining; saturated.
40			7/11/12	0.0		SM	SILTY SAND: olive brown (2.5Y 4/3); fine-grained; saturated; medium dense; micaceous.
45			9/15/16	0.0			Dark greenish gray (GLEY 4/1).
50							Boring terminated at 45 feet below ground surface. Groundwater first encountered at 35 feet below ground surface.

NOTES:

☐☐ = sample interval
☒ = no sample recovery
▬ = laboratory sample
▽ = groundwater first encountered
▼ = static groundwater
PID = photoionization detector
NM = not measured
NA = not applicable
NR = not recorded
ppm = parts per million

E. A. ROBBINS, R.G. 4874

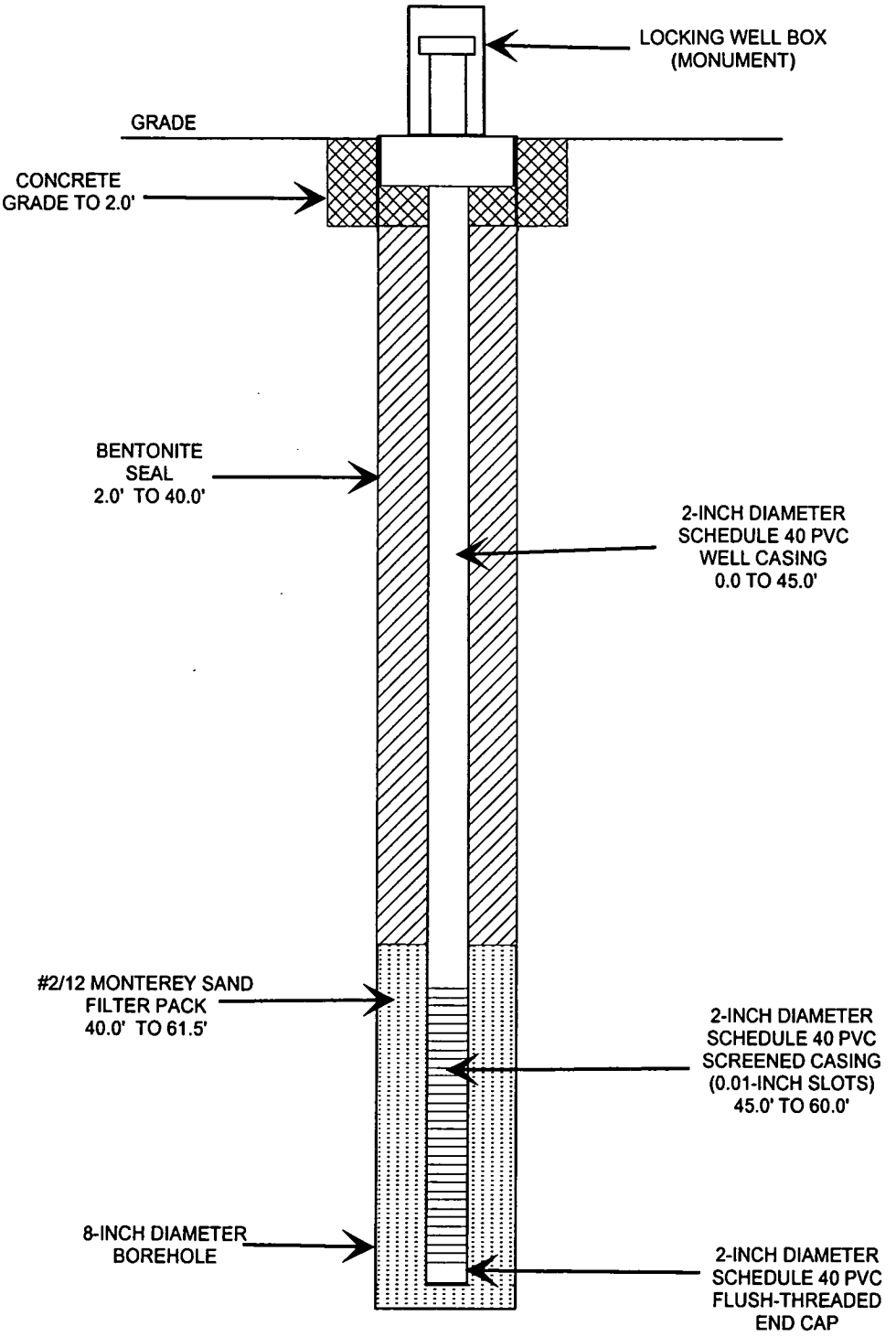
MILLER BROOKS Environmental, Inc.

LOG OF BORING MW-2

PROJECT NUMBER 01-402-0002-04

PAGE 1 OF 1

LOG_OF_BORING_LBY BORELBL.GPJ MBE.GDT 6/1/04

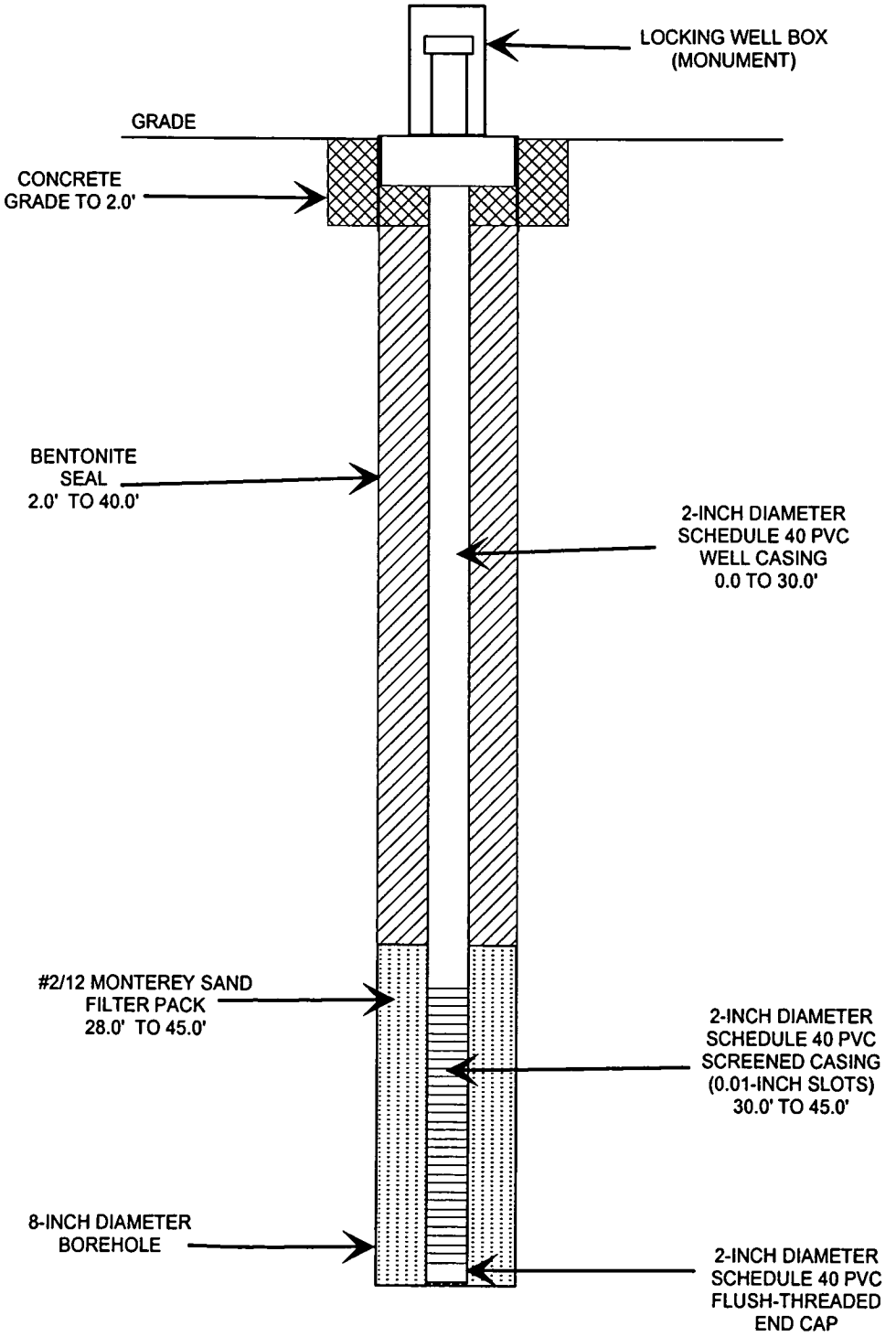


RUNKLE CANYON PROPERTY
SIMI VALLEY, CALIFORNIA

MILLER BROOKS
Environmental, Inc.

MONITORING WELL MW-1
CONSTRUCTION DETAIL

PROJECT NUMBER 01-402-0002-04



RUNKLE CANYON PROPERTY
SIMI VALLEY, CALIFORNIA

MILLER BROOKS
Environmental, Inc.

MONITORING WELL MW-2
CONSTRUCTION DETAIL

PROJECT NUMBER 01-402-0002-04

GROUNDWATER MONITORING WELL
DEVELOPMENT DATA

Project Number: 402-0002-04 **Date:** 5-17-04

Runkle Canyon

General Information

Water-Level Meter: Solnist
Water Quality Meter: Horiba U-10
Purging Equipment: Electric Sub. Pump 2" 4" Stainless Steel bailer and surge

Decontamination Process: Steam Clean
MBE Personnel: ~~Kevin Moore~~ Jennifer Canfield

Well Development Data for Monitoring Well:

Well Number: MW-1 Initial depth to water: Water Column (feet): 14' during surge
Casing Diameter: 2" Pre-development total depth: Minimum Purge Volume: 0.8 <<~~3.35~~ 3 X WC = 5 volumes (for a 2-inch diameter well)

Start Time	End Time	Volume (gal)	pH	Conductivity (mS/cm)	Turbidity (NTU)	O2 (mg/l)	Temperature (C)	Salinity (%)	Activity		
									Surge	Bail	Pump
2:15		30gal	—	—	—	—	—	—	X		
~~STARTED~~	2:50	added							X		
	removed	2gal	8.4	2.14	417	7.52	24.4	0		X	
		5gal	8.5	2.37	504	7.16	23.0	0			
		9gal									
		10gal									

Post-development depth to water:
Post-development total depth: 60.2'
Total Volume Removed 10 gallons

Notes/Comments: added 30gal potable water to dry well prior to surging. During 30min surging, water column approx. 14'. First few bailers of water are dark & silty, silt @ bottom of bailer. At 9gal, only getting a few ounces/each bailer.

GROUNDWATER MONITORING WELL
DEVELOPMENT DATA

Project Number: 402-0002-04 Runkle Canyon **Date:** 5-18-04

General Information

Water-Level Meter: Solnist
Water Quality Meter: Horiba U-10
Purging Equipment: ~~Electric Sub. Pump~~ (2") 4" Stainless Steel bailer and surge
Decontamination Process: Steam Clean
MBE Personnel: ~~Kevin Meyers~~ Jennifer Canfield

Well Development Data for Monitoring Well:

Well Number: MW-2 Initial depth to water: 31.2 Water Column (feet): 13.8 feet
Casing Diameter: 2" Pre-development total depth: 45.0 feet Minimum Purge Volume: 11.04 <-- ~~3.33~~ 0.8 X WC = 5 volumes (for a 4-inch diameter well)

Start Time	End Time	Volume (gal)	pH	Conductivity (mS/cm)	Turbidity (NTU)	O2 (mg/l)	Temperature (C)	Salinity (%)	Activity: Surge	Activity: Bail	Activity: Pump
9:30									X		
	10:40										
10:30	10145								X		
10:50		2	7.73	3.29	493	6.15	20.6	0.13		X	
11:00		4	7.82	3.29	478	4.99	19.8	0.13			
11:10		10						~~0.15~~			
11:30		12	7.81	3.52	480	9.95	20.0	0.15			X
11:35		16	7.66	3.28	322	10.04	19.8	0.13			
11:40		21	7.64	3.28	224	2.71	19.6	0.13			
		24	7.59	3.29	115	2.13	19.7	0.13			
		27	7.55	3.30	87	2.86	19.7	0.13			

Post-development depth to water: 32 feet Total Volume Removed 32 gallons
Post-development total depth: 45 feet

Notes/Comments: Began pumping @ approx. 2.5gpm / after 20 gal approx. 1.5gpm

[redacted] 1145	30	7.58	3.32	142	3.10	19.8	0.13
1150	32	7.66	3.32	106	4.10	19.6	0.16

Miller Brooks Environmental, Inc. - Fluid-Level Monitoring Measurements

Date: 5-24-04 Site Address: Runkle Canyon, Simi Valley, CA Project No.: 402-0002-04 Personnel Initials: J. Canfield S. Holroyd

Monitoring/Purge order (based on most recent groundwater sampling data; cleanest to dirtiest): MW-1, MW-2

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	Sampling Data			
Well Number	Depth to Product	Depth to Water	Depth to Bottom	Water Column = (c) - (b)	1 well Volume (gallons) = (d) * 0.16 (for 2" well), = (d) *0.66 (for 4" well)	3 Well Volumes (gallons) = (e) * 3	80% recharge depth = (c) - [(d) * 0.80)]	Sample Time	Depth to Product	Depth to Water	Total Volume Purged
MW-1	—	43.82	62.75	18.93	3	9	47.61	~~1645~~	—	50.14	17
MW-2	—	33.85	45.12	11.27	1.8	5.4	36.10	1438	—	39.02	6

GROUNDWATER MONITORING WELL PURGING DATA

Project Number: 402-0002-04 **Date:** 5-24-04

General Information

Water-Level Meter: Solinst
Water Quality Meter: Horiba U-10 or Hydac
Purging Equipment: Bailer

Decontamination Process: Steam Clean
Sampling Equipment: Disposable Bailer
Wells Sampled By: J Canfield / S. Holroyd

Well Purging Data for Monitoring Well:

Start Time	Volume (gal)	pH	Conductivity (mS/cm)	Turbidity (NTU)	O2 (mg/l)	Temperature (C)	Salinity (%)	Notes
12:10	1	7.21	2.98	999	1.54	19.9	0.11	
12:20	3	7.55	2.74	999	4.06	19.6	0.16	
12:35	7	7.98	2.53	999	2.98	19.5	0.14	
12:55	10	7.79	3.02	999	3.87	19.4	0.15	
1:11	14	7.56	3.06	999	2.0	19.8	0.15	
	17							

Initial depth to water: 43.82
Total well depth: 62.75
Casing Diameter: 2"
Minimum Purge Volume:
80% Recharge: ~~47.61~~ 47.61
Sample Time: ~~1530~~ 1645

Well Purging Data for Monitoring Well: MW-2

Start Time	Volume (gal)	pH	Conductivity (mS/cm)	Turbidity (NTU)	O2 (mg/l)	Temperature (C)	Salinity (%)	Notes
1:45	1	6.89	3.50	407	1.98	19.5	.17	
1:54	2	6.91	3.49	999	2.04	19.4	.17	
1:58	3	7.16	3.45	999	3.01	19.1	.17	
2:03	4	6.93	3.43	999	2.02	19.2	.17	
2:07	5	6.94	3.42	999	1.99	19.2	.17	

Initial depth to water: 33.85
Total well depth: 45.12
Casing Diameter: 2"
Minimum Purge Volume: 5 gallons
80% Recharge: [illegible] 36.10
Sample Time: [illegible] 1530

APPENDIX C

TPS Technologies Soil Recycling
Non-Hazardous Soils

Manifest

Date of Shipment:	Responsible for Payment:	Transporter Truck #:	Facility #:	Given by TPS:
5/24/2004	BESI	6030809	07	22927

Generator and/or Consultant

Generator's Name and Billing Address:	Generator's Phone #:	Generator's US EPA ID No.
GREEN PARK RUNKLE CANYON, LLC 3030 OLD RANCH PARKWAY, SUITE 450 SEAL BEACH, CA 90740	Person to Contact:	
	FAX#:	Customer Account Number with TPS:
Consultant's Name and Billing Address:	**Consultant's Phone #:**	
	Person to Contact:	
	FAX#:	Customer Account Number with TPS:
Generation Site (Transport from): (name & address) RUNKLE RANCH SEQUOIA AVE (SOUTHEND) COVINA, CA	Site Phone #:	BTEX Levels
	Person to Contact:	TPH Levels
	FAX#:	AVG. Levels
Designated Facility (Transport to): (name & address) TPS TECHNOLOGIES, INC. 12328 HIBISCUS AVENUE ADELANTO, CA 92301	Facility Phone #: 800-852-8001	Facility Permit Numbers
	Person to Contact:	
	FAX#: 760-246-8004	
Transporter Name and Mailing Address: BELSHIRE ENVIRONMENTAL 25422 TRABUCO ROAD #105-269 LAKE FOREST, CA 92630 BESI#101518.02	Transporter's Phone #: 949-450-1010	Transporter's US EPA ID No.: CAD983564681
	Person to Contact: Larry Hoobart	Transporter's DOT No.: 450647
	FAX#: 949-450-1177	Customer Account Number with TPS: 1000193

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand ☐ Organic ☐ Clay ☐ Other ☐	0 - 10% ☐ 10 - 20% ☐ 20% - over ☐	Gas ☐ Diesel ☐ Other ☐	9	Soil	6300		
Sand ☐ Organic ☐ Clay ☐ Other ☐	0 - 10% ☐ 10 - 20% ☐ 20% - over ☐	Gas ☐ Diesel ☐ Other ☐			10780	5500	4580

List any exception to items listed above: 109793 2.29

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Jennifer Canfield Generator ☐ Consultant ☒ Miller Brooks Env. Signature and date: Jennifer Canfield Month: 5 Day: 24 Year: 04

Transporter

Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: Mitch Tocc (BCH) Signature and date: Tocc Month: 5 Day: 24 Year: 04

Recycling Facility

Discrepancies:

FAC# SEQUOIA
ID# 14085

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above.

Print or Type Name: Signature and date: 5/25/04

TRANSPORTER COPY

NO. 645685

NON-HAZARDOUS WASTE DATA FORM

SITE:

NAME GREEN PARK RUNKLE CANYON RUNKLE RANCH

EPA I.D. NO. NOT REQUIRED

ADDRESS 3030 OLD RANCH PARKWAY SEQUOIA AVE(SOUTHEND)

PROFILE

CITY, STATE, ZIP SEAL BEACH, CA 90740 SIMI VALLEY, CA

PHONE NO. ( )

CONTAINERS: No. 1 VOLUME 50 Gallons WEIGHT

TYPE: ☒ TANK TRUCK ☐ DUMP TRUCK ☒ OTHER ☐ CARTONS ☐ OTHER

WASTE DESCRIPTION NON-HAZARDOUS WATER

GENERATING PROCESS DECON RINSATE and/or PURGED GROUNDWATER

COMPONENTS OF WASTE	PPM	%	COMPONENTS OF WASTE	PPM	%
1. WATER		99-100%	5.		
2. TPH		< 1.0%	6.		
3. VOC's		< 0.1%	7. BESI#101518.02		
4.			8.		

PROPERTIES: pH 7-10 ☐ SOLID ☒ LIQUID ☐ SLUDGE ☐ SLURRY ☐ OTHER

HANDLING INSTRUCTIONS: WEAR ALL APPROPRIATE PROTECTIVE CLOTHING

THE GENERATOR CERTIFIES THAT THE WASTE AS DESCRIBED IS 100% NON-HAZARDOUS.

Miller Brooks Env. Jennifer Canfield Jennifer Canfield 5/24/04

TYPED OR PRINTED FULL NAME & SIGNATURE DATE

TO BE COMPLETED BY TRANSPORTER

NAME B.E.S.I. NASI Inc

EPA I.D. NO.

ADDRESS 25422 TRABUCO ROAD #105-269 1251 Brea Cyn Rd SERVICE ORDER NO.

CITY, STATE, ZIP LAKE FOREST, CA 92630 Brea Ca 92821 PICK UP DATE 10/6/2/04

PHONE NO. 949-450-1010 714 990 6855

TRUCK, UNIT, I.D. NO. 680809 Mitch Todd 5/24/04

TYPED OR PRINTED FULL NAME & SIGNATURE DATE

NAME DeMENNO KERDOON.

EPA I.D. NO.

DISPOSAL METHOD

ADDRESS 2000 N. ALAMEDA STREET ☐ LANDFILL ☒ OTHER

CITY, STATE, ZIP COMPTON, CA 90222 Recycle

PHONE NO. 310-537-7100

ENVIRODEPOT 6-4-04

TYPED OR PRINTED FULL NAME & SIGNATURE DATE

GEN	OLD/NEW	L A	TONS	
TRANS		S B		
C/Q		RT/CD	HWDF NONE	DISCREPANCY

NO. 645885

NON-HAZARDOUS WASTE DATA FORM

TO BE COMPLETED BY GENERATOR

SITE:

NAME GREEN PARK RUNKLE CANYON RUNKLE RANCH

EPA I.D. NO. NOT REQUIRED

ADDRESS 3030 OLD RANCH PARKWAY SEQUOIA AVE(SOUTHEND)

PROFILE

CITY, STATE, ZIP SEAL BEACH, CA 90740 SIMI VALLEY, CA

PHONE NO. ( )

CONTAINERS: No. 1 VOLUME 20 WEIGHT 64

TYPE: ☐ TANK TRUCK ☐ DUMP TRUCK ☑ DRUMS ☐ CARTONS ☐ OTHER

WASTE DESCRIPTION NON-HAZARDOUS WATER

GENERATING PROCESS DECON RINSATE and/or PURGED GROUNDWATER

COMPONENTS OF WASTE	PPM	%	COMPONENTS OF WASTE	PPM	%
1. WATER		99-100%	5.		
2. TPH		< 1.0%	6.		
3. VOC's		< 0.1%	7. BESI#101840.02		
4.			8.		

PROPERTIES: pH 7-10 ☐ SOLID ☒ LIQUID ☐ SLUDGE ☐ SLURRY ☐ OTHER

HANDLING INSTRUCTIONS: WEAR ALL APPROPRIATE PROTECTIVE CLOTHING

THE GENERATOR CERTIFIES THAT THE WASTE AS DESCRIBED IS 100% NON-HAZARDOUS.

AGENT FOR GPRC
VICTOR A. VISCIO — 6/8/04
TYPED OR PRINTED FULL NAME & SIGNATURE — DATE

TRANSPORTER

NAME B.E.S.I.

EPA I.D. NO.

ADDRESS 25422 TRABUCO ROAD #105-269

SERVICE ORDER NO.

CITY, STATE, ZIP LAKE FOREST, CA 92630

PICK UP DATE

PHONE NO. 949-450-1010

TRUCK, UNIT, I.D. NO. 4098486 — 6/8/04
TYPED OR PRINTED FULL NAME & SIGNATURE — DATE

TSD FACILITY

NAME DeMENNO KERDOON

EPA I.D. NO.

DISPOSAL METHOD

ADDRESS 2000 N. ALAMEDA STREET

☐ LANDFILL ☐ OTHER

CITY, STATE, ZIP COMPTON, CA 90222

PHONE NO. 310-537-7100

TYPED OR PRINTED FULL NAME & SIGNATURE — DATE

GEN	OLD/NEW	L A	TONS
TRANS		S B	
C/Q		RT/CD	HWDF NONE

DISCREPANCY

APPENDIX D

SEVERN TRENT STL

STL Sacramento
880 Riverside Parkway
West Sacramento, CA 95605

Tel: 916 373 5600 Fax: 916 372 1059
www.stl-inc.com

June 16, 2004

STL SACRAMENTO PROJECT NUMBER: G4E260324
PO/CONTRACT: 402-0002-04

Elizabeth Robbins
Miller Brooks Environmental
2124 Main Street Suite 200
Huntington Beach, CA 92648

Dear Ms. Robbins,

This report contains the analytical results for the samples received under chain of custody by STL Sacramento on May 26, 2004. These samples are associated with your Runkle Canyon project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4353.

Sincerely,

Heidi Ellis-Bunz
Project Manager

Robert Hrabak
Senior Project Manager

TABLE OF CONTENTS

STL SACRAMENTO PROJECT NUMBER G4E260324

CASE NARRATIVE

STL SACRAMENTO PROJECT NUMBER G4E260324

WATER, 8260B, Volatile Organics, GC/MS
Sample(s): 1-5
A positive result for 1,2,3-Trichlorobenzene, less than the reporting limit, was reported in the method blank associated with the project samples. Since no positive results were reported for this compound in the field samples, there is no adverse impact upon the data.

WATER, 1625 Modified, NDMA
Sample(s): 1, 3 and 4
The internal standard recoveries for samples MW-1, DUP-1, and DUP-2 are below the method recommended limit of 25%. The low recoveries are directly due to losses during solvent reduction steps. Generally, data quality is not considered affected if internal standard signal-to-noise exceeds 10:1, which is achieved for all internal standards in all field samples. There is no adverse impact upon the data quality.

WATER, 314.0, Perchlorate
Sample(s): 1-4
Due to matrix interference the samples were diluted 2-5X. The reporting limits have been adjusted accordingly.
{Please note that these samples were inadvertently analyzed via STL's low-level 314.0 method (reporting limit = 1 ppb). All subsequent samples will be analyzed via STL's standard 314.0 method, which achieves the project specified reporting limit of 4 ppb.}

There were no other anomalies associated with this project.

SEVERN TRENT STL

ACCREDITED IN ACCORDANCE WITH nelac

STL Sacramento Certifications/Accreditations

Certifying State	Certificate #	Certifying State	Certificate #
Alaska	UST-055	Oregon	CA 200005
Arizona	AZ0616	Pennsylvania	68-1272
Arkansas	NA	South Carolina	87014001
California*	01119CA	Utah*	QUAN1
Connecticut	PH-0691	Virginia	00178
Florida*	E87570	Washington	C087
Georgia	960	West Virginia	9930C, 334
Hawaii	NA	Wisconsin	998204680
Louisiana*	01944	NFESC	NA
Michigan*	9947	USACE	NA
Nevada	CA 044	USACE	NA
New Jersey	CA005	USDA Foreign Plant	37-82605
New York*	11666	USDA Foreign Soil	S-46613

*NELAP accredited. A more detailed parameter list is available upon request.

QC Parameter Definitions

QC Batch: The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

Method Blank: An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD): An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also used to evaluate the precision of the process.

Duplicate Sample (DU): Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

Surrogates: Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

Matrix Spike and Matrix Spike Duplicate (MS/MSD): An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

Isotope Dilution: For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

Control Limits: The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.

Sample Summary
G4E260324

WO#	Sample #	Client Sample ID	Sampling Date	Received Date
GG5DX	1	MW-1	5/24/04 04:45 PM	5/26/04 09:30 AM
GG5D8	2	MW-2	5/24/04 02:30 PM	5/26/04 09:30 AM
GG5EA	3	DUP-1	5/24/04	5/26/04 09:30 AM
GG5EE	4	DUP-2	5/24/04	5/26/04 09:30 AM
GG5RC	5	TRIP BLANK	5/24/04	5/26/04 09:30 AM

Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight

G4E260324

Chain of Custody Record

SEVERN TRENT STL

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client	Project Manager	Date	Chain of Custody Number
Miller Brooks Environmental, Inc	Elizabeth Robbins	5-24-04	129756
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 1**
2124 Main Street, Suite 200	714 960-4088		
City / State / Zip Code	**Site Contact**	**Lab Contact**	
Huntington Beach / CA / 92648		Diana Brooks	
Project Name and Location (State)	**Carrier/Waybill Number**		
Runkle Canyon - Simi Valley, CA	FedEx/8468 0707 3337		
Contract/Purchase Order/Quote No.			
402-0002-04 (MBE Proj #)			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H_2SO_4	HNO_3	HCl	NaOH	$ZnAc/NaOH$	Analysis: 8270M (NBMA)	8321A	314.0	8260
MW-1 — 3 VOAs (HCl) 1 Poly 3 1L amber	5-24-04	1645		X						X VOAs			X	X	X	X
MW-2 — " "		1430		X												
Dup 1 — 3 VOAs 1 Poly 1 1L amber		—		X												
Dup 2 — 3 VOAs 1 Poly 3 1L amber		—		X												

Special Instructions/ Conditions of Receipt

RECEIVED IN GOOD CONDITION
UNDER COC
MAY 26 2004
INI

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other Normal

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: Jennifer Canfield	5-25-04	9:30a	1. Received By: FEDEX	5-25-04	
2. Relinquished By:			2. Received By: Cliff Hyde	5-26-04	110
3. Relinquished By:			3. Received By:		

Comments: Please see QUOTE #: 6911

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

WATER, 8260B, Volatile Organics, GC/MS

Miller Brooks Environmental

Client Sample ID: MW-1

GC/MS Volatiles

Lot-Sample #...: G4E260324-001 Work Order #...: GG5DX1AE Matrix.....: WATER
Date Sampled...: 05/24/04 Date Received..: 05/26/04
Prep Date.....: 05/28/04 Analysis Date..: 05/28/04
Prep Batch #...: 4153581
Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Dichlorodifluoromethane (Freon 12)	ND	1.0	ug/L
Trichlorofluoromethane (Freon 11)	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Bromomethane	**0.37 J**	**1.0**	**ug/L**
Chloroethane	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Methylene chloride	**0.46 J**	**1.0**	**ug/L**
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
Bromochloromethane	**0.50 J**	**1.0**	**ug/L**
Chloroform	**3.6**	**1.0**	**ug/L**
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
Bromodichloromethane	**2.2**	**1.0**	**ug/L**
cis-1,3-Dichloropropene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
Dibromochloromethane	**2.0**	**1.0**	**ug/L**
1,2-Dibromoethane (EDB)	ND	2.0	ug/L
Chlorobenzene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	1.0	ug/L
o-Xylene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Bromoform	**0.47 J**	**1.0**	**ug/L**

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Miller Brooks Environmental

Client Sample ID: MW-1

GC/MS Volatiles

Lot-Sample #...: G4E260324-001 Work Order #...: GG5DX1AE Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Isopropylbenzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
p-Isopropyltoluene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L
1,2,4-Trichlorobenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	111	(78 - 131)
1,2-Dichloroethane-d4	107	(80 - 124)
Toluene-d8	89	(73 - 118)
4-Bromofluorobenzene	77	(65 - 112)

NOTE(S):

J Estimated result. Result is less than RL.

Miller Brooks Environmental

Client Sample ID: MW-2

GC/MS Volatiles

Lot-Sample #...: G4E260324-002 **Work Order #...:** GG5D81AE **Matrix.....:** WATER
Date Sampled...: 05/24/04 **Date Received..:** 05/26/04
Prep Date.....: 05/28/04 **Analysis Date..:** 05/28/04
Prep Batch #...: 4153581
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Dichlorodifluoromethane (Freon 12)	ND	1.0	ug/L
Trichlorofluoromethane (Freon 11)	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Chloroform	**0.29 J**	**1.0**	**ug/L**
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
Bromodichloromethane	**0.27 J**	**1.0**	**ug/L**
cis-1,3-Dichloropropene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,2-Dibromoethane (EDB)	ND	2.0	ug/L
Chlorobenzene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	1.0	ug/L
o-Xylene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L

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Miller Brooks Environmental

Client Sample ID: MW-2

GC/MS Volatiles

Lot-Sample #...: G4E260324-002 Work Order #...: GG5D81AE Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Isopropylbenzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
p-Isopropyltoluene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L
1,2,4-Trichlorobenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	104	(78 - 131)
1,2-Dichloroethane-d4	105	(80 - 124)
Toluene-d8	91	(73 - 118)
4-Bromofluorobenzene	78	(65 - 112)

NOTE(S):

J Estimated result. Result is less than RL.

Miller Brooks Environmental

Client Sample ID: DUP-1

GC/MS Volatiles

Lot-Sample #...: G4E260324-003 Work Order #...: GG5EA1AE Matrix.....: WATER
Date Sampled...: 05/24/04 Date Received..: 05/26/04
Prep Date.....: 05/28/04 Analysis Date..: 05/28/04
Prep Batch #...: 4153581
Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Dichlorodifluoromethane (Freon 12)	ND	1.0	ug/L
Trichlorofluoromethane (Freon 11)	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Bromomethane	**0.35 J**	**1.0**	**ug/L**
Chloroethane	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Methylene chloride	**0.49 J**	**1.0**	**ug/L**
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
Bromochloromethane	**0.48 J**	**1.0**	**ug/L**
Chloroform	**3.6**	**1.0**	**ug/L**
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
Bromodichloromethane	**2.4**	**1.0**	**ug/L**
cis-1,3-Dichloropropene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
Dibromochloromethane	**2.2**	**1.0**	**ug/L**
1,2-Dibromoethane (EDB)	ND	2.0	ug/L
Chlorobenzene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	1.0	ug/L
o-Xylene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Bromoform	**0.55 J**	**1.0**	**ug/L**

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Miller Brooks Environmental

Client Sample ID: DUP-1

GC/MS Volatiles

Lot-Sample #...: G4E260324-003 Work Order #...: GG5EA1AE Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Isopropylbenzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
p-Isopropyltoluene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L
1,2,4-Trichlorobenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	104	(78 - 131)
1,2-Dichloroethane-d4	109	(80 - 124)
Toluene-d8	88	(73 - 118)
4-Bromofluorobenzene	77	(65 - 112)

NOTE(S):

J Estimated result. Result is less than RL.

Miller Brooks Environmental

Client Sample ID: DUP-2

GC/MS Volatiles

Lot-Sample #...: G4E260324-004 Work Order #...: GG5EE1AE Matrix.....: WATER
Date Sampled...: 05/24/04 Date Received..: 05/26/04
Prep Date.....: 05/28/04 Analysis Date..: 05/28/04
Prep Batch #...: 4153581
Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Dichlorodifluoromethane (Freon 12)	ND	1.0	ug/L
Trichlorofluoromethane (Freon 11)	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Chloroform	**0.36 J**	**1.0**	**ug/L**
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
Bromodichloromethane	**0.32 J**	**1.0**	**ug/L**
cis-1,3-Dichloropropene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,2-Dibromoethane (EDB)	ND	2.0	ug/L
Chlorobenzene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	1.0	ug/L
o-Xylene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L

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Miller Brooks Environmental

Client Sample ID: DUP-2

GC/MS Volatiles

Lot-Sample #...: G4E260324-004 **Work Order #...:** GG5EE1AE **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Isopropylbenzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
p-Isopropyltoluene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L
1,2,4-Trichlorobenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	108	(78 - 131)
1,2-Dichloroethane-d4	107	(80 - 124)
Toluene-d8	90	(73 - 118)
4-Bromofluorobenzene	79	(65 - 112)

NOTE(S):

J Estimated result. Result is less than RL.

Miller Brooks Environmental

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: G4E260324-005 Work Order #...: GG5RC1AA Matrix.....: WATER
Date Sampled...: 05/24/04 Date Received..: 05/26/04
Prep Date.....: 05/28/04 Analysis Date..: 05/28/04
Prep Batch #...: 4153581
Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Dichlorodifluoromethane (Freon 12)	ND	1.0	ug/L
Trichlorofluoromethane (Freon 11)	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,2-Dibromoethane (EDB)	ND	2.0	ug/L
Chlorobenzene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	1.0	ug/L
o-Xylene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L

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Miller Brooks Environmental

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: G4E260324-005 Work Order #...: GG5RC1AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Isopropylbenzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
p-Isopropyltoluene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L
1,2,4-Trichlorobenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
Naphthalene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	107	(78 - 131)
1,2-Dichloroethane-d4	110	(80 - 124)
Toluene-d8	92	(73 - 118)
4-Bromofluorobenzene	79	(65 - 112)

QC DATA ASSOCIATION SUMMARY

G4E260324

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	SW846 8260B		4153581	
002	WATER	SW846 8260B		4153581	
003	WATER	SW846 8260B		4153581	
004	WATER	SW846 8260B		4153581	
005	WATER	SW846 8260B		4153581	

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: G4E260324 **Work Order #...:** GHEVF1AA **Matrix.....:** WATER
MB Lot-Sample #: G4F010000-581

Prep Date.....: 05/28/04
Analysis Date..: 05/28/04 **Prep Batch #...:** 4153581
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Dichlorodifluoromethane (Freon 12)	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane (Freon 11)	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
2,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
Bromochloromethane	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
Dibromomethane	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
1,3-Dichloropropane	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
1,2-Dibromoethane (EDB)	ND	2.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
m-Xylene & p-Xylene	ND	1.0	ug/L	SW846 8260B
o-Xylene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B
Bromobenzene	ND	1.0	ug/L	SW846 8260B

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: G4E260324 **Work Order #...:** GHEVF1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
n-Propylbenzene	ND	1.0	ug/L	SW846 8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
p-Isopropyltoluene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
n-Butylbenzene	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L	SW846 8260B
1,2,4-Trichloro-benzene	ND	1.0	ug/L	SW846 8260B
Hexachlorobutadiene	ND	1.0	ug/L	SW846 8260B
Naphthalene	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichlorobenzene	**0.14 J**	**1.0**	**ug/L**	**SW846 8260B**
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	115	(78 - 131)
1,2-Dichloroethane-d4	111	(80 - 124)
Toluene-d8	90	(73 - 118)
4-Bromofluorobenzene	83	(65 - 112)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: G4E260324 **Work Order #...:** GHEVF1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: G4F010000-581 GHEVF1AD-LCSD
Prep Date.....: 05/28/04 **Analysis Date..:** 05/28/04
Prep Batch #...: 4153581
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	20.0	20.7	ug/L	103		SW846 8260B
	20.0	19.2	ug/L	96	7.3	SW846 8260B
Benzene	20.0	20.0	ug/L	100		SW846 8260B
	20.0	18.9	ug/L	95	5.5	SW846 8260B
Trichloroethene	20.0	19.5	ug/L	97		SW846 8260B
	20.0	18.7	ug/L	93	4.1	SW846 8260B
Toluene	20.0	20.9	ug/L	104		SW846 8260B
	20.0	19.9	ug/L	100	4.6	SW846 8260B
Chlorobenzene	20.0	19.5	ug/L	98		SW846 8260B
	20.0	19.3	ug/L	96	1.5	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	97	(78 - 131)
	100	(78 - 131)
1,2-Dichloroethane-d4	106	(80 - 124)
	96	(80 - 124)
Toluene-d8	102	(73 - 118)
	98	(73 - 118)
4-Bromofluorobenzene	94	(65 - 112)
	100	(65 - 112)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: G4E260324 **Work Order #...:** GHEVF1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: G4F010000-581 GHEVF1AD-LCSD
Prep Date.....: 05/28/04 **Analysis Date..:** 05/28/04
Prep Batch #...: 4153581
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**103**	**(76 - 124)**			**SW846 8260B**
	96	**(76 - 124)**	**7.3**	**(0-19)**	**SW846 8260B**
Benzene	**100**	**(80 - 120)**			**SW846 8260B**
	95	**(80 - 120)**	**5.5**	**(0-15)**	**SW846 8260B**
Trichloroethene	**97**	**(72 - 126)**			**SW846 8260B**
	93	**(72 - 126)**	**4.1**	**(0-32)**	**SW846 8260B**
Toluene	**104**	**(80 - 120)**			**SW846 8260B**
	100	**(80 - 120)**	**4.6**	**(0-17)**	**SW846 8260B**
Chlorobenzene	**98**	**(80 - 120)**			**SW846 8260B**
	96	**(80 - 120)**	**1.5**	**(0-15)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	97	(78 - 131)
	100	(78 - 131)
1,2-Dichloroethane-d4	106	(80 - 124)
	96	(80 - 124)
Toluene-d8	102	(73 - 118)
	98	(73 - 118)
4-Bromofluorobenzene	94	(65 - 112)
	100	(65 - 112)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

WATER, 8321A, Perchlorate by LC/MS

Miller Brooks Environmental

Client Sample ID: MW-1

Dissolved HPLC

Lot-Sample #...:	G4E260324-001	Work Order #...:	GG5DX1AC	Matrix.....:	WATER
Date Sampled...:	05/24/04	Date Received..:	05/26/04		
Prep Date.....:	06/14/04	Analysis Date..:	06/15/04		
Prep Batch #...:	4166361				
Dilution Factor:	1	Method.....:	SW846 8321A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Perchlorate	ND	0.50	ug/L

Miller Brooks Environmental

Client Sample ID: MW-2

Dissolved HPLC

Lot-Sample #...:	G4E260324-002	Work Order #...:	GG5D81AC	Matrix.....:	WATER
Date Sampled...:	05/24/04	Date Received..:	05/26/04		
Prep Date.....:	06/14/04	Analysis Date..:	06/15/04		
Prep Batch #...:	4166361				
Dilution Factor:	1	Method.....:	SW846 8321A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Perchlorate	ND	0.50	ug/L

Miller Brooks Environmental

Client Sample ID: DUP-1

Dissolved HPLC

Lot-Sample #...:	G4E260324-003	Work Order #...:	GG5EA1AC	Matrix.....:	WATER
Date Sampled...:	05/24/04	Date Received..:	05/26/04		
Prep Date.....:	06/14/04	Analysis Date..:	06/15/04		
Prep Batch #...:	4166361				
Dilution Factor:	1	Method.....:	SW846 8321A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Perchlorate	ND	0.50	ug/L

Miller Brooks Environmental

Client Sample ID: DUP-2

Dissolved HPLC

Lot-Sample #...:	G4E260324-004	Work Order #...:	GG5EE1AC	Matrix.....:	WATER
Date Sampled...:	05/24/04	Date Received..:	05/26/04		
Prep Date.....:	06/14/04	Analysis Date..:	06/15/04		
Prep Batch #...:	4166361				
Dilution Factor:	1	Method.....:	SW846 8321A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Perchlorate	ND	0.50	ug/L

QC DATA ASSOCIATION SUMMARY

G4E260324

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	SW846 8321A		4166361	4166204
	WATER	SW846 8260B		4153581	
	WATER	MCAWW 314.0		4159148	4159092
	WATER	CFR136A 1625 Modi		4149449	
002	WATER	SW846 8321A		4166361	4166204
	WATER	SW846 8260B		4153581	
	WATER	MCAWW 314.0		4159148	4159092
	WATER	CFR136A 1625 Modi		4149449	
003	WATER	SW846 8321A		4166361	4166204
	WATER	SW846 8260B		4153581	
	WATER	MCAWW 314.0		4159148	4159092
	WATER	CFR136A 1625 Modi		4149449	
004	WATER	SW846 8321A		4166361	4166204
	WATER	SW846 8260B		4153581	
	WATER	MCAWW 314.0		4159148	4159092
	WATER	CFR136A 1625 Modi		4149449	
005	WATER	SW846 8260B		4153581	

METHOD BLANK REPORT

HPLC

Client Lot #...: G4E260324 Work Order #...: GH8WC1AA Matrix.....: WATER
MB Lot-Sample #: G4F140000-361

Prep Date.....: 06/14/04
Analysis Date..: 06/15/04 Prep Batch #...: 4166361
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Perchlorate	ND	0.50	ug/L	SW846 8321A

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: G4E260324 Work Order #...: GH8WC1AC Matrix.....: WATER
LCS Lot-Sample#: G4F140000-361
Prep Date.....: 06/14/04 Analysis Date..: 06/15/04
Prep Batch #...: 4166361
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Perchlorate	**96**	**(35 - 135)**	**SW846 8321A**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

HPLC

Client Lot #...: G4E260324 Work Order #...: GH8WC1AC Matrix.....: WATER
LCS Lot-Sample#: G4F140000-361
Prep Date.....: 06/14/04 Analysis Date..: 06/15/04
Prep Batch #...: 4166361
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Perchlorate	**5.00**	**4.78**	**ug/L**	**96**	**SW846 8321A**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

HPLC

Client Lot #...:	G4E260324	**Work Order #...:**	GG5DX1AJ-MS GG5DX1AK-MSD	**Matrix.....:**	WATER
MS Lot-Sample #:	G4E260324-001				
Date Sampled...:	05/24/04	**Date Received..:**	05/26/04		
Prep Date.....:	06/14/04	**Analysis Date..:**	06/15/04		
Prep Batch #...:	4166361				
Dilution Factor:	1				

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Perchlorate	**99**	**(35 - 135)**			**SW846 8321A**
	95	**(35 - 135)**	**3.6**	**(0-50)**	**SW846 8321A**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

HPLC

Client Lot #...: G4E260324 Work Order #...: GG5DX1AJ-MS Matrix.....: WATER
MS Lot-Sample #: G4E260324-001 GG5DX1AK-MSD
Date Sampled...: 05/24/04 Date Received..: 05/26/04
Prep Date.....: 06/14/04 Analysis Date..: 06/15/04
Prep Batch #...: 4166361
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Perchlorate	ND	5.00	4.94	ug/L	99		SW846 8321A
	ND	5.00	4.77	ug/L	95	3.6	SW846 8321A

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

WATER, 1625 Modified, NDMA

Miller Brooks Environmental

Client Sample ID: MW-1

Trace Level Organic Compounds

Lot-Sample #...: G4E260324-001 Work Order #...: GG5DX1AF Matrix.....: WATER
Date Sampled...: 05/24/04 Date Received..: 05/26/04
Prep Date.....: 05/28/04 Analysis Date..: 06/01/04
Prep Batch #...: 4149449
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
N-Nitrosodimethylamine	3.2	2.0	ng/L	CFR136A 1625 Modi

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
N-Nitrosodimethylamine-d6	24 *	(25 - 150)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Miller Brooks Environmental

Client Sample ID: MW-2

Trace Level Organic Compounds

Lot-Sample #...: G4E260324-002 Work Order #...: GG5D81AF Matrix.....: WATER
Date Sampled...: 05/24/04 Date Received..: 05/26/04
Prep Date.....: 05/28/04 Analysis Date..: 06/01/04
Prep Batch #...: 4149449
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
N-Nitrosodimethylamine	ND	2.0	ng/L	CFR136A 1625 Modi

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
N-Nitrosodimethylamine-d6	38	(25 - 150)

Miller Brooks Environmental

Client Sample ID: DUP-1

Trace Level Organic Compounds

Lot-Sample #...: G4E260324-003 Work Order #...: GG5EA1AF Matrix.....: WATER
Date Sampled...: 05/24/04 Date Received..: 05/26/04
Prep Date.....: 05/28/04 Analysis Date..: 06/01/04
Prep Batch #...: 4149449
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
N-Nitrosodimethylamine	3.5	2.0	ng/L	CFR136A 1625 Modi

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
N-Nitrosodimethylamine-d6	15 *	(25 - 150)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Miller Brooks Environmental

Client Sample ID: DUP-2

Trace Level Organic Compounds

Lot-Sample #...: G4E260324-004 Work Order #...: GG5EE1AF Matrix.....: WATER
Date Sampled...: 05/24/04 Date Received..: 05/26/04
Prep Date.....: 05/28/04 Analysis Date..: 06/01/04
Prep Batch #...: 4149449
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
N-Nitrosodimethylamine	ND	2.0	ng/L	CFR136A 1625 Modi

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
N-Nitrosodimethylamine-d6	18 *	(25 - 150)

NOTE(S):

* Surrogate recovery is outside stated control limits.

QC DATA ASSOCIATION SUMMARY

G4E260324

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	SW846 8260B		4153581	
	WATER	CFR136A 1625 Modi		4149449	
002	WATER	SW846 8260B		4153581	
	WATER	CFR136A 1625 Modi		4149449	
003	WATER	SW846 8260B		4153581	
	WATER	CFR136A 1625 Modi		4149449	
004	WATER	SW846 8260B		4153581	
	WATER	CFR136A 1625 Modi		4149449	
005	WATER	SW846 8260B		4153581	

METHOD BLANK REPORT

Trace Level Organic Compounds

Client Lot #...: G4E260324 **Work Order #...:** GHA5K1AA **Matrix.....:** WATER
MB Lot-Sample #: G4E280000-449

Prep Date.....: 05/28/04
Analysis Date..: 06/01/04 **Prep Batch #...:** 4149449
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
N-Nitrosodimethylamine	ND	2.0	ng/L	CFR136A 1625 Modi

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
N-Nitrosodimethylamine-d6	38	(25 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

Trace Level Organic Compounds

Client Lot #...: G4E260324 Work Order #...: GHA5K1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: G4E280000-449 GHA5K1AD-LCSD
Prep Date.....: 05/28/04 Analysis Date..: 06/01/04
Prep Batch #...: 4149449
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
N-Nitrosodimethylamine	**107**	**(50 - 150)**			**CFR136A 1625 Modifie**
	98	**(50 - 150)**	**8.6**	**(0-50)**	**CFR136A 1625 Modifie**

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
N-Nitrosodimethylamine-d6	37	(25 - 150)
	37	(25 - 150)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot #...: G4E260324 **Work Order #...:** GHA5K1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: G4E280000-449 GHA5K1AD-LCSD
Prep Date.....: 05/28/04 **Analysis Date..:** 06/01/04
Prep Batch #...: 4149449
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
N-Nitrosodimethylamine	**100**	**107**	**ng/L**	**107**		**CFR136A 1625 Modifie**
	100	**98.0**	**ng/L**	**98**	**8.6**	**CFR136A 1625 Modifie**

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
N-Nitrosodimethylamine-d6	37	(25 - 150)
	37	(25 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

WATER, 314.0, Perchlorate

Miller Brooks Environmental

Client Sample ID: MW-1

General Chemistry

Lot-Sample #...: G4E260324-001 Work Order #...: GG5DX Matrix.....: WATER
Date Sampled...: 05/24/04 Date Received..: 05/26/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Perchlorate	ND G	2.0	ug/L	MCAWW 314.0	06/03/04	4159148

Dilution Factor: 2

NOTE(S):

RL Reporting Limit

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

Miller Brooks Environmental

Client Sample ID: MW-2

General Chemistry

Lot-Sample #...: G4E260324-002 Work Order #...: GG5D8 Matrix.....: WATER
Date Sampled...: 05/24/04 Date Received..: 05/26/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Perchlorate	ND G	2.0	ug/L	MCAWW 314.0	06/03/04	4159148

Dilution Factor: 2

NOTE(S):

RL Reporting Limit

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

Miller Brooks Environmental

Client Sample ID: DUP-1

General Chemistry

Lot-Sample #...: G4E260324-003 Work Order #...: GG5EA Matrix.....: WATER
Date Sampled...: 05/24/04 Date Received..: 05/26/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Perchlorate	ND G	2.0	ug/L	MCAWW 314.0	06/03/04	4159148

Dilution Factor: 2

NOTE(S):

RL Reporting Limit

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

Miller Brooks Environmental

Client Sample ID: DUP-2

General Chemistry

Lot-Sample #...: G4E260324-004 Work Order #...: GG5EE Matrix.....: WATER
Date Sampled...: 05/24/04 Date Received..: 05/26/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Perchlorate	ND G	5.0	ug/L	MCAWW 314.0	06/03/04	4159148

Dilution Factor: 5

NOTE(S):

RL Reporting Limit

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

QC DATA ASSOCIATION SUMMARY

G4E260324

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	MCAWW 314.0		4159148	4159092
002	WATER	MCAWW 314.0		4159148	4159092
003	WATER	MCAWW 314.0		4159148	4159092
004	WATER	MCAWW 314.0		4159148	4159092

METHOD BLANK REPORT

General Chemistry

Client Lot #...: G4E260324 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Perchlorate		Work Order #: GHP4Q1AA		MB Lot-Sample #:	G4F070000-148	
	ND	1.0	ug/L	MCAWW 314.0	06/03/04	4159148

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G4E260324 Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Perchlorate		Work Order #: GHP4Q1AC	LCS Lot-Sample#: G4F070000-148		
	101	(85 - 115)	MCAWW 314.0	06/03/04	4159148

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G4E260324 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Perchlorate			Work Order #: GHP4Q1AC	LCS Lot-Sample#: G4F070000-148			
	50.0	50.5	ug/L	101	MCAWW 314.0	06/03/04	4159148

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G4E260324 Matrix.....: WATER
Date Sampled...: 05/24/04 Date Received..: 05/26/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Perchlorate		Work Order #...: GG5DX1AG		MS Lot-Sample #: G4E260324-001	
	97	(80 - 120)	MCAWW 314.0	06/03/04	4159148

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G4E260324 Matrix.....: WATER
Date Sampled...: 05/24/04 Date Received..: 05/26/04

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Perchlorate			Work Order #...: GG5DX1AG			MS Lot-Sample #: G4E260324-001		
	ND	100	96.7	ug/L	97	MCAWW 314.0	06/03/04	4159148

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: G4E260324 **Work Order #...:** GG5DX-SMP GG5DX-DUP **Matrix.....:** WATER

Date Sampled...: 05/24/04 **Date Received..:** 05/26/04

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Perchlorate						SD Lot-Sample #: G4E260324-001		
	ND	ND	ug/L	0	(0-20)	MCAWW 314.0	06/03/04	4159148

APPENDIX E

LABORATORY DATA CONSULTANTS, INC.
7750 El Camino Real, Suite 2L Carlsbad, CA 92009 Phone: 760/634-0437 Fax: 760/634-0439

Miller Brooks Environmental
2124 Main Street, Ste 200
Huntington Beach, CA 92648
Attn: Ms. Elisabeth Robbins

July 15, 2004

Subject: **Assessment of NDMA data for samples identified as MW-1 and DUP-1 under STL Laboratory Report No. G4E260324**

Dear Ms. Robbins,

Per your request, Laboratory Data Consultants, Inc. has reviewed the NDMA data for samples identified as MW-1 and DUP-1 under STL Laboratory Report No. G4E260324 dated June 16, 2004.

Based upon the supporting QA/QC data and the raw data submitted for the samples, the following findings were identified.

1) Although NDMA was reported at non-detect below the 2.0 ng/L detection limit, the method blank associated with samples MW-1 and DUP-1 did contain a contamination of 0.5 ng/L. Based upon the standard data qualification procedures under the EPA National Functional Guidelines for common contamination, the NDMA detected at 3.2 ng/L (MW-1) and 3.5 ng/L (DUP-1) should be qualified as non-detect. The values reported are within 10 times the level of common blank contamination and should be considered suspect.

2) The internal standard (NDMA-d6) used in monitoring the performance of the instrument appeared to be degrading based upon inspection of the area response in the initial calibration (60-70 million area count), continuing calibration (20-28 million area count), method blank (13 million area count), and the samples MW-1(7 million area count) and DUP-1 (4 million area count). This lower area response in the samples relative to the reference standards may attribute to significantly higher false concentrations. The internal standard response failed the internal laboratory criteria of 25-150% recovery. The concentrations reported in samples MW-1 and DUP-1 are suspect. These results in fact may be non-detect.

In conclusion, the NDMA detects reported in samples MW-1 and DUP-1 should be considered suspect based upon method blank contamination and internal standard failures. If confirmation of the results for these samples is needed, resampling and testing of these samples is required. Please feel free to call me at (760) 634-0437.

Sincerely,

Richard M. Amano
President/Principal Chemist

APPENDIX F

ORANGE COAST ANALYTICAL, INC.
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

LABORATORY REPORT FORM

Laboratory Name: ORANGE COAST ANALYTICAL, INC.

Address: 3002 Dow Suite 532 Tustin, CA 92780

Telephone: (714) 832-0064

Laboratory Certification
(ELAP) No.: 1416 Expiration Date: 2005

Laboratory Director's Name (Print) : Mark Noorani

Client: Miller Brooks Environmental

Project No.: 402-0002-04

Project Name: Runkle Canyon

Laboratory Reference: MBE 14790

Analytical Method: 8260B

Date Sampled: 05/17/04
Date Received: 05/19/04
Date Reported: 05/24/04

Sample Matrix: Water

Chain of Custody Received: Yes

Laboratory Director's Signature:

Miller Brooks Environmental
ATTN: Ms. Elizabeth Robbins
2124 Main St. Suite 200
Huntington Beach, CA 92648

Laboratory Reference #: MBE 14790
Client Project ID: Runkle Canyon
Client Project #: 402-0002-04

VOLATILE ORGANICS BY GC/MS (EPA 8260B)

Sample Description: Water

Sampled:		---	05/17/04
Received:		---	05/19/04
Analyzed:		05/21/04	05/21/04
Reported:		05/24/04	05/24/04
Lab Sample #:		MB	04050130*
Client Sample #:		---	MW-1 Surge
Dilution Factor:		1	1
ANALYTE	***CAS #***	***µg/l***	***µg/l***
t-Amyl methyl ether (TAME)	955-05-8	<2.0	<2.0
Benzene	71-43-2	<0.5	<0.5
Bromobenzene	108-86-1	<0.5	<0.5
Bromochloromethane	74-97-5	<0.5	<0.5
Bromodichloromethane	75-27-4	<1.0	42
Bromoform	75-25-2	<0.5	13
Bromomethane	74-83-9	<5.0	<5.0
tert-Butyl alcohol (TBA)	75-65-0	<20	<20
n-Butylbenzene	104-51-8	<0.5	<0.5
sec-Butylbenzene	135-98-8	<0.5	<0.5
tert-Butylbenzene	98-06-6	<0.5	<0.5
Carbon disulfide	75-15-0	<0.5	<0.5
Carbon tetrachloride	56-23-5	<0.5	<0.5
Chlorobenzene	108-90-7	<0.5	<0.5
Chlorodibromomethane	124-48-1	<0.5	48
Chloroethane	75-00-3	<5.0	<5.0
Chloroform	67-66-3	<0.5	32
Chloromethane	74-87-3	<5.0	<5.0
2-Chlorotoluene	95-49-8	<0.5	<0.5
4-Chlorotoluene	106-43-4	<0.5	<0.5
1,2-Dibromo-3-chloropropane	96-12-8	<1.0	<1.0
1,2-Dibromoethane	106-93-4	<0.5	<0.5
Dibromomethane	74-95-3	<0.5	<0.5
1,2-Dichlorobenzene	95-50-1	<0.5	<0.5
1,3-Dichlorobenzene	541-73-1	<0.5	<0.5
1,4-Dichlorobenzene	106-46-7	<0.5	<0.5
1,1-Dichloroethane	75-34-3	<0.5	<0.5
1,2-Dichloroethane	107-06-2	<0.5	<0.5
1,1-Dichloroethene	75-35-4	<1.0	<1.0
cis-1,2-Dichloroethene	156-59-2	<1.0	<1.0
trans-1,2-Dichloroethene	156-60-5	<0.5	<0.5
Dichlorodifluoromethane	75-71-8	<2.0	<2.0
1,2-Dichloropropane	78-87-5	<0.5	<0.5

INT

VOLATILE ORGANICS BY GC/MS (EPA 8260B) (continued)

Laboratory Reference #: MBE 14790
Client Project ID: Runkle Canyon
Client Project #: 402-0002-04

Sampled:		---	05/17/04
Received:		---	05/19/04
Analyzed:		05/21/04	05/21/04
Reported:		05/24/04	05/24/04
Lab Sample #:		MB	04050130*
Client Sample #:		---	MW-1 Surge
Dilution Factor:		1	1
ANALYTE (con't)	***CAS #***	***µg/l***	***µg/l***
1,3-Dichloropropane	142-28-9	<0.5	<0.5
2,2-Dichloropropane	594-20-7	<0.5	<0.5
1,1-Dichloropropene	563-58-6	<0.5	<0.5
cis-1,3-Dichloropropene	10061-01-5	<0.5	<0.5
trans-1,3-Dichloropropene	10061-02-6	<0.5	<0.5
Diisopropyl ether (DIPE)	108-20-3	<2.0	<2.0
Ethyl t-butyl ether (ETBE)	637-92-3	<2.0	<2.0
Ethylbenzene	100-41-4	<0.5	<0.5
Hexachlorobutadiene	87-68-3	<0.5	<0.5
Isopropylbenzene	98-82-8	<0.5	<0.5
4-Isopropyltoluene	99-87-6	<0.5	<0.5
Methyl t-butyl ether (MTBE)	1634-04-4	<1.0	<1.0
Methylene chloride	75-09-2	<5.0	<5.0
Naphthalene	91-20-3	<0.5	<0.5
n-Propylbenzene	103-65-1	<0.5	<0.5
Styrene	100-42-5	<0.5	<0.5
1,1,1,2-Tetrachloroethane	630-20-6	<0.5	<0.5
1,1,2,2-Tetrachloroethane	79-34-5	<0.5	<0.5
Tetrachloroethene	127-18-4	<0.5	<0.5
Toluene	108-88-3	<0.5	<0.5
1,2,3-Trichlorobenzene	87-61-6	<0.5	<0.5
1,2,4-Trichlorobenzene	120-82-1	<0.5	<0.5
1,1,1-Trichloroethane	71-55-6	<0.5	<0.5
1,1,2-Trichloroethane	79-00-5	<0.5	<0.5
Trichloroethene	79-01-6	<0.5	<0.5
Trichlorofluoromethane	75-69-4	<2.0	<2.0
1,2,3-Trichloropropane	96-18-4	<0.5	<0.5
1,2,4-Trimethylbenzene	95-63-6	<0.5	<0.5
1,3,5-Trimethylbenzene	108-67-8	<0.5	<0.5
Vinyl acetate	108-05-4	<5.0	<5.0
Vinyl chloride	75-01-4	<1.0	<1.0
Xylenes, Total	1330-20-7	<2.0	<2.0
Acceptable Surrogate %RC		***%RC***	***%RC***
Dibromofluoromethane	61-203	117	133
Toluene-d8	70-133	95	96
4-Bromofluorobenzene	61-132	97	89

* = Sample not preserved. Sample received and analyzed past holding time.

INT

QA/QC Report
for
Volatile Organic Compounds (EPA 8260B)
Reporting Units: ppb

1. Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Date of Analysis : 05/21/04
Laboratory Sample No : 04050071
Laboratory Reference No : MBE 14790

Analyte	*R1*	*SP CONC*	*MS*	*MSD*	*%MS*	*%MSD*	*RPD*	*ACP%*	*ACP RPD*
1,1-Dichloroethene	0.0	50	61	61	122	122	0	47-154	19
Benzene	0.0	50	57	55	114	110	4	72-122	13
Trichloroethene	0.0	50	58	55	116	110	5	47-152	13
Toluene	0.0	50	56	55	112	110	2	75-126	15
Chlorobenzene	0.0	50	65	65	130	130	0	82-133	14

Definition of Terms :

R1	Result of Laboratory Sample Number
SP CONC	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
% MS	Percent Recovery of MS: {(MS-R1) / SP} x 100
% MSD	Percent Recovery of MSD: {(MSD-R1) / SP} x 100
RPD	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2
ACP %	Acceptable Range of Percent for MS/MSD
ACP RPD	Acceptable Relative Percent Difference

2. Laboratory Control Sample

Date of Analysis : 05/21/04
Laboratory Standard No : OCA10751e

Analyte	*SP CONC*	*Results*	*% Recovery*	*ACP %*
1,1-Dichloroethene	50	55	110	49-146
Benzene	50	49	98	73-118
Trichloroethene	50	51	102	72-121
Toluene	50	51	102	76-123
Chlorobenzene	50	58	116	81-131

INIT

Analysis Request and Chain of Custody Record

ORANGE COAST ANALYTICAL, INC.

3002 Dow, Suite 532
Tustin, CA 92780
(714) 832-0064, Fax (714) 832-0067

4620 E. Elwood, Suite 4
Phoenix, AZ 85040
(480) 736-0960 Fax (480) 736-0970

Lab Job No: _____
Page 1 of 1

REQUIRED TAT: Normal

CUSTOMER INFORMATION		PROJECT INFORMATION	
COMPANY:	Miller Brooks Environmental, Inc.	PROJECT NAME:	Runkle Canyon
SEND REPORT TO:	Elizabeth Robbins	NUMBER:	402-0002-04
ADDRESS:	2124 Main St, Suite 200 Huntington Beach, CA	LOCATION:	Simi Valley
		ADDRESS:	
PHONE:	7149604088	FAX:	714 960-2462
		SAMPLED BY:	Jennifer Canfield

SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER TYPE	PRES.	ANALYSIS/METHOD REQUEST: VOCs - 8260B	REMARKS/PRECAUTIONS
MW-1 surge	2	5-17-04	1430	aq	VOA		X	

Total No. of Samples: 1 (2 containers)

Method of Shipment:

Relinquished By: Jennifer Canfield	Date/Time: 5/19/04 11:05am	Received By:	Date/Time:	Reporting Format: (check) NORMAL _____ S.D. HMMD _____
Relinquished By:	Date/Time:	Received By:	Date/Time:	RWQCB _____ OTHER _____
Relinquished By:	Date/Time:	Received For Lab By: [signature]	Date/Time: 5/19/04 11:05	Sample Integrity: (check) intact _____ on ice _____

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.