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Quarterly Groundwater Monitoring Report for the Fourth Quarter of 2005

Bodycote Thermal Processing
Techni-Braze Facility
11845 Burke Street
Santa Fe Springs, California

January 9, 2006
002-10272-00-004

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January 9, 2006

002-10272-00-004

Mr. Jeffrey Hu, P.E.
California Regional Water Quality Control Board
Los Angeles Region
320 West Fourth Street, Suite 200
Los Angeles, California 90013

Subject: Quarterly Groundwater Monitoring Report for the Fourth Quarter of 2005, Bodycote Thermal Processing, Techni-Braze Facility, 11845 Burke Street, Santa Fe Springs, California

Dear Mr. Hu:

LFR, Inc. (LFR) has prepared the enclosed "Quarterly Groundwater Monitoring Report for the Fourth Quarter of 2005" for Bodycote Thermal Processing's Techni-Braze facility located at 11845 Burke Street, Santa Fe Springs, California ("the Site"). This report documents the findings of groundwater monitoring and sampling activities conducted at the Site in response to requests made by the California Regional Water Quality Control Board, Los Angeles Region (RWQCB). The scope of work for field activities performed at the Site may be found in LFR's "Work Plan for Groundwater Monitoring and Additional Subsurface Investigation" dated June 18, 2004.

If you have questions regarding the material presented in this report or other issues concerning the Site, please call either of the undersigned at (714) 444-0111.

Sincerely,

Jennifer A. Rothman

Jennifer S. Rothman, P.E.
Senior Associate Engineer

Jay M. Shipley, P.E.
Principal Engineer/Operations Manager

Enclosure

cc: Mr. Brian Strebing, Bodycote Thermal Processing
Mr. Carl Basurto, Bodycote Thermal Processing

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CERTIFICATION

All hydrogeologic and geologic information, conclusions, and recommendations in this document have been prepared under the supervision of and reviewed by an LFR, Inc. California Professional Geologist.

1/9/06
Date

James P. Bryson, P.G.
Principal Geologist
California Professional Geologist No. 6109

PROFESSIONAL GEOLOGIST
JAMES P. BRYSON
No. 6109
Exp. 5/31/07
STATE OF CALIFORNIA

* A professional geologist's certification of conditions comprises a declaration of his or her professional judgment. It does not constitute a warranty or guarantee, expressed or implied, nor does it relieve any other party of its responsibility to abide by contract documents, applicable codes, standards, regulations, and ordinances.

LIMITATIONS STATEMENT

The opinions and recommendations presented in this report are based upon the scope of services, information obtained through the performance of the services, and the schedule as agreed upon by LFR, Inc. (LFR) and the party for whom this report was originally prepared. This report is an instrument of professional service and was prepared in accordance with the generally accepted standards and level of skill and care under similar conditions and circumstances established by the environmental consulting industry. No representation, warranty or guarantee, express or implied, is intended or given. To the extent that LFR relied upon any information prepared by other parties not under contract to LFR, LFR makes no representation as to the accuracy or completeness of such information. This report is expressly for the sole and exclusive use of the party for whom this report was originally prepared for a particular purpose. Only the party for whom this report was originally prepared and/or other specifically named parties have the right to make use of and rely upon this report. Reuse of this report or any portion thereof for other than its intended purpose, or if modified, or if used by third parties, shall be at the user's sole risk.

Results of any investigations or testing and any findings presented in this report apply solely to conditions existing at the time when LFR's investigative work was performed. It must be recognized that any such investigative or testing activities are inherently limited and do not represent a conclusive or complete characterization. Conditions in other parts of the project site may vary from those at the locations where data were collected. LFR's ability to interpret investigation results is related to the availability of the data and the extent of the investigation activities. As such, 100% confidence in environmental investigation conclusions cannot reasonably be achieved.

LFR, therefore, does not provide any guarantees, certifications or warranties regarding any conclusions regarding environmental contamination of any such property. Furthermore, nothing contained in this document shall relieve any other party of its responsibility to abide by contract documents and applicable laws, codes, regulations or standards.

1.0 INTRODUCTION

Bodycote Thermal Processing (Bodycote) retained LFR, Inc. (LFR) to conduct quarterly groundwater sampling at Bodycote's Techni-Braze facility located at 11845 Burke Street, Santa Fe Springs, California ("the Site"; Figures 1 and 2). This report documents the results of the fourth quarter 2005 groundwater monitoring event for the Site.

2.0 SCOPE OF WORK

The purpose of this assessment was to monitor the extent of volatile organic compound (VOC)-affected groundwater at the Site. The scope of work performed during field activities may be found in LFR's "Work Plan for Groundwater Monitoring and Additional Subsurface Investigation" dated June 18, 2004. The work plan was approved by the California Regional Water Quality Control Board, Los Angeles Region (RWQCB) on June 28, 2004. Activities conducted during this assessment included groundwater elevation measurements, monitoring well purging and sampling, laboratory analysis of groundwater samples, and off-site disposal of purge water. Detailed descriptions of these activities are presented in the following sections.

3.0 BACKGROUND

3.1 Site Description

The subject property is located at 11845 Burke Street in the City of Santa Fe Springs, California, just east of the intersection of Burke Street and Dice Street (Figure 1). The Site is currently being used for industrial steel treatment activities including alloy brazing and heat treatment of metal parts using seven vacuum and five induction furnaces. Surrounding land usage includes industrial properties and parking lots.

The approximately 55,210-square-foot Site is improved with a 24,321-square-foot, two-story building that is used for office space, manufacturing, storage, and distribution. Except for the site building, the majority of the subject property is paved with asphalt. The south side of the Site along Burke Street has approximately 1,000 square feet of landscaping. Techni-Braze has been the sole occupant of the subject property since the site building was constructed in 1966. According to Techni-Braze personnel, the area was used for agricultural purposes, presumably as a walnut grove, prior to 1966.

Kleinfelder installed 9 groundwater monitoring wells in a shallow semi-perched, unconfined groundwater zone at the Site in 1991, and Mabbet Cappacio and Associates installed 4 more wells in August 1991, for a total of 13 groundwater monitoring wells in shallow groundwater (screen depth approximately 40 feet bgs). Terravac installed three

4.0 FIELD ACTIVITIES

Fourth quarter 2005 groundwater monitoring activities at the Site were performed on November 7 and 8, 2005. Procedures and standard protocols used to conduct these field activities are described in Appendix A.

4.1 Groundwater Sampling

All 16 on-site monitoring wells were gauged and sampled during this quarter. In addition, a duplicate groundwater sample was collected from well MW-5 for quality assurance purposes. Analytical results for the duplicate sample were consistent with its sample pair. An equipment blank sample was also collected during sampling activities by pouring de-ionized water through the pump and into three 40 milliliter VOAs.

Prior to sample collection, a minimum of three well casing volumes of groundwater was purged from each well (unless the well went dry) using submersible pumps or disposable bailers. The groundwater temperature, specific conductance, and pH were monitored for stabilization during the purging process. Groundwater quality sampling information is presented in Appendix B.

A groundwater sample was collected from each well after the well was purged and the water level in the well had recovered to at least 80 percent of the original water level. Groundwater samples were collected using a clean, disposable bailer and decanted into laboratory-supplied sample containers prepared with the appropriate sample preservative. The containers were filled so that no bubbles were visible. Samples were then sealed, labeled, placed in a chilled cooler, and prepared for delivery to the analytical laboratory. Strict chain-of-custody was maintained throughout the sample handling process.

5.0 ANALYTICAL METHODS AND RESULTS

Groundwater samples were submitted to Sunstar Analytical Laboratory (Sunstar) of Tustin, California, for VOC analysis using EPA Method 8260B. Sunstar is certified by the California Environmental Protection Agency (Cal-EPA) for EPA Method 8260B. Copies of the laboratory data sheets for the groundwater analyses from this sampling event are included in Appendix C.

5.1 Groundwater Analytical Results

Various VOCs were detected at concentrations above their respective laboratory reporting limits in groundwater from the 16 wells sampled. In addition, various VOC constituents were also detected at concentrations above their respective State of California Maximum Contaminant Levels (MCLs). A summary of the analytical results is provided in Table 2. Shallow and deeper aquifer isoconcentration maps for tetrachloroethene (PCE) are

8.0 REFERENCES

California Department of Water Resources (CDWR), 1961, Planned Utilization of Groundwater Basins of the Coastal Plain of Los Angeles County: CDWR Bulletin No. 104, Appendix A.

Kleinfelder. 1991. Report – Soil Vapor Survey, Subsurface Soil Sampling and Groundwater Sampling, Techni-Braze, Inc., 11845 Burke Street, Santa Fe Springs, California. October.

U. S. Geological Survey (USGS), 1965 (photorevised 1981), Whittier Quadrangle, California – Los Angeles County, 7.5-minute series (topographic): USGS, scale 1:24,000, 1 sheet.

TABLES

Table 1
Summary of Groundwater Elevations
Bodycote Thermal Processing, Techni-Braze Facility
Santa Fe Springs, CA
LFR 002-10272-00

Location	Date Measured	Northing	Easting	Casing Elevation (ft-msl)	Depth to Water (feet)	Groundwater Elevation (ft-msl)
MCA-1	03/23/04	1809025.3133	6542170.3703	150.54	35.77	114.77
	06/16/04	1809025.3133	6542170.3703	150.54	36.34	114.20
	09/09/04	1809025.3133	6542170.3703	150.54	38.29	112.25
	12/01/04	1809025.3133	6542170.3703	150.54	40.04	110.50
	02/17/05	1809025.3133	6542170.3703	150.54	37.90	112.64
	05/16/05	1809025.3133	6542170.3703	150.54	30.67	119.87
	08/11/05	1809025.3133	6542170.3703	150.54	28.00	122.54
	11/07/05	1809025.3133	6542170.3703	150.54	27.58	122.96
MCA-2	03/23/04	1808975.1837	6542031.8421	150.25	35.34	114.91
	06/16/04	1808975.1837	6542031.8421	150.25	35.66	114.59
	09/09/04	1808975.1837	6542031.8421	150.25	36.91	113.34
	12/01/04	1808975.1837	6542031.8421	150.25	37.76	112.49
	02/17/05	1808975.1837	6542031.8421	150.25	37.10	113.15
	05/16/05	1808975.1837	6542031.8421	150.25	29.87	120.38
	08/11/05	1808975.1837	6542031.8421	150.25	27.37	122.88
	11/07/05	1808975.1837	6542031.8421	150.25	28.20	122.05
MCA-3	03/23/04	1808853.0544	6542059.8626	150.24	35.00	115.24
	06/16/04	1808853.0544	6542059.8626	150.24	36.30	113.94
	09/09/04	1808853.0544	6542059.8626	150.24	37.15	113.09
	12/01/04	1808853.0544	6542059.8626	150.24	38.79	111.45
	02/17/05	1808853.0544	6542059.8626	150.24	37.17	113.07
	05/16/05	1808853.0544	6542059.8626	150.24	30.88	119.36
	08/11/05	1808853.0544	6542059.8626	150.24	27.75	122.49
	11/07/05	1808853.0544	6542059.8626	150.24	28.30	121.94
MCA-4	03/23/04	1809004.3843	6542076.4773	150.79	35.82	114.97
	06/16/04	1809004.3843	6542076.4773	150.79	36.20	114.59
	09/09/04	1809004.3843	6542076.4773	150.79	38.85	111.94
	12/01/04	1809004.3843	6542076.4773	150.79	39.06	111.73
	02/17/05	1809004.3843	6542076.4773	150.79	38.22	112.57
	05/16/05	1809004.3843	6542076.4773	150.79	30.78	120.01
	08/11/05	1809004.3843	6542076.4773	150.79	28.19	122.60
	11/07/05	1809004.3843	6542076.4773	150.79	28.92	121.87
MW-1	03/23/04	1809093.4376	6542052.4768	151.22	44.73	106.49
	06/16/04	1809093.4376	6542052.4768	151.22	47.10	104.12
	09/09/04	1809093.4376	6542052.4768	151.22	51.16	100.06
	12/01/04	1809093.4376	6542052.4768	151.22	51.46	99.76
	02/17/05	1809093.4376	6542052.4768	151.22	44.08	107.14

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Santa Fe Springs, CA
LFR 002-10272-00

Location	Date Measured	Northing	Easting	Casing Elevation (ft-msl)	Depth to Water (feet)	Groundwater Elevation (ft-msl)
MW-1	05/16/05	1809093.4376	6542052.4768	151.22	35.92	115.30
	08/11/05	1809093.4376	6542052.4768	151.22	36.12	115.10
	11/07/05	1809093.4376	6542052.4768	151.22	37.68	113.54
MW-2	03/23/04	1808774.0201	6542075.0787	151.00	45.86	105.14
	06/16/04	1808774.0201	6542075.0787	151.00	48.10	102.90
	09/09/04	1808774.0201	6542075.0787	151.00	52.04	98.96
	12/01/04	1808774.0201	6542075.0787	151.00	52.42	98.58
	02/17/05	1808774.0201	6542075.0787	151.00	45.40	105.60
	05/16/05	1808774.0201	6542075.0787	151.00	42.92	108.08
	08/11/05	1808774.0201	6542075.0787	151.00	37.52	113.48
	11/07/05	1808774.0201	6542075.0787	151.00	39.05	111.95
MW-3	03/23/04	1808764.6373	6542253.0397	148.90	43.08	105.82
	06/16/04	1808764.6373	6542253.0397	148.90	45.22	103.68
	09/09/04	1808764.6373	6542253.0397	148.90	49.08	99.82
	12/01/04	1808764.6373	6542253.0397	148.90	49.44	99.46
	02/17/05	1808764.6373	6542253.0397	148.90	42.64	106.26
	05/16/05	1808764.6373	6542253.0397	148.90	35.28	113.62
	08/11/05	1808764.6373	6542253.0397	148.90	34.87	114.03
	11/07/05	1808764.6373	6542253.0397	148.90	36.38	112.52
MW-5	03/23/04	1809058.9520	6542022.3075	151.36	36.70	114.66
	06/16/04	1809058.9520	6542022.3075	151.36	37.07	114.29
	09/09/04	1809058.9520	6542022.3075	151.36	38.90	112.46
	12/01/04	1809058.9520	6542022.3075	151.36	40.35	111.01
	02/17/05	1809058.9520	6542022.3075	151.36	39.22	112.14
	05/16/05	1809058.9520	6542022.3075	151.36	30.73	120.63
	08/11/05	1809058.9520	6542022.3075	151.36	28.60	122.76
	11/07/05	1809058.9520	6542022.3075	151.36	29.54	121.82
MW-6	03/23/04	1808928.1774	6542231.3779	151.40	36.12	115.28
	06/16/04	1808928.1774	6542231.3779	151.40	36.53	114.87
	09/09/04	1808928.1774	6542231.3779	151.40	38.02	113.38
	12/01/04	1808928.1774	6542231.3779	151.40	39.66	111.74
	02/17/05	1808928.1774	6542231.3779	151.40	39.38	112.02
	05/16/05	1808928.1774	6542231.3779	151.40	32.12	119.28
	08/11/05	1808928.1774	6542231.3779	151.40	29.15	122.25
	11/07/05	1808928.1774	6542231.3779	151.40	29.45	121.95
MW-7	03/23/04	1808823.3744	6542235.2072	149.46	34.06	115.40
	06/16/04	1808823.3744	6542235.2072	149.46	34.36	115.10
	09/09/04	1808823.3744	6542235.2072	149.46	35.90	113.56
	12/01/04	1808823.3744	6542235.2072	149.46	37.80	111.66

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Santa Fe Springs, CA
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Location	Date Measured	Northing	Easting	Casing Elevation (ft-msl)	Depth to Water (feet)	Groundwater Elevation (ft-msl)
MW-7	02/17/05	1808823.3744	6542235.2072	149.46	36.96	112.50
	05/16/05	1808823.3744	6542235.2072	149.46	30.36	119.10
	08/11/05	1808823.3744	6542235.2072	149.46	27.35	122.11
	11/07/05	1808823.3744	6542235.2072	149.46	27.63	121.83
MW-8	03/23/04	1809001.6246	6542229.3612	150.54	35.26	115.28
	06/16/04	1809001.6246	6542229.3612	150.54	35.72	114.82
	09/09/04	1809001.6246	6542229.3612	150.54	37.38	113.16
	12/01/04	1809001.6246	6542229.3612	150.54	38.97	111.57
	02/17/05	1809001.6246	6542229.3612	150.54	38.20	112.34
	05/16/05	1809001.6246	6542229.3612	150.54	30.94	119.60
	08/11/05	1809001.6246	6542229.3612	150.54	28.12	122.42
	11/07/05	1809001.6246	6542229.3612	150.54	28.73	121.81
MW-9	03/23/04	1808949.6295	6542106.8055	151.18	36.06	115.12
	06/16/04	1808949.6295	6542106.8055	151.18	36.34	114.84
	09/09/04	1808949.6295	6542106.8055	151.18	37.50	113.68
	12/01/04	1808949.6295	6542106.8055	151.18	38.63	112.55
	02/17/05	1808949.6295	6542106.8055	151.18	38.66	112.52
	05/16/05	1808949.6295	6542106.8055	151.18	31.62	119.56
	08/11/05	1808949.6295	6542106.8055	151.18	28.72	122.46
	11/07/05	1808949.6295	6542106.8055	151.18	29.26	121.92
MW-10	03/23/04	1808960.7764	6542159.3225	151.34	36.20	115.14
	06/16/04	1808960.7764	6542159.3225	151.34	36.48	114.86
	09/09/04	1808960.7764	6542159.3225	151.34	37.84	113.50
	12/01/04	1808960.7764	6542159.3225	151.34	39.33	112.01
	02/17/05	1808960.7764	6542159.3225	151.34	38.84	112.50
	05/16/05	1808960.7764	6542159.3225	151.34	32.04	119.30
	08/11/05	1808960.7764	6542159.3225	151.34	28.90	122.44
	11/07/05	1808960.7764	6542159.3225	151.34	29.42	121.92
MW-11	03/23/04	1808919.9698	6542161.3447	151.39	36.11	115.28
	06/16/04	1808919.9698	6542161.3447	151.39	36.45	114.94
	09/09/04	1808919.9698	6542161.3447	151.39	37.64	113.75
	12/01/04	1808919.9698	6542161.3447	151.39	39.36	112.03
	02/17/05	1808919.9698	6542161.3447	151.39	38.86	112.53
	05/16/05	1808919.9698	6542161.3447	151.39	32.02	119.37
	08/11/05	1808919.9698	6542161.3447	151.39	29.02	122.37
	11/07/05	1808919.9698	6542161.3447	151.39	29.46	121.93
MW-12	03/23/04	1808882.2468	6542.235.0537	151.35	36.02	115.33
	06/16/04	1808882.2468	6542.235.0537	151.35	36.40	114.95
	09/09/04	1808882.2468	6542.235.0537	151.35	37.81	113.54

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Santa Fe Springs, CA
LFR 002-10272-00

Location	Date Measured	Northing	Easting	Casing Elevation (ft-msl)	Depth to Water (feet)	Groundwater Elevation (ft-msl)
MW-12	12/01/04	1808882.2468	6542.235.0537	151.35	39.78	**111.57**
	02/17/05	1808882.2468	6542.235.0537	151.35	39.34	**112.01**
	05/16/05	1808882.2468	6542.235.0537	151.35	32.08	**119.27**
	08/11/05	1808882.2468	6542.235.0537	151.35	29.12	**122.23**
	11/07/05	1808882.2468	6542.235.0537	151.35	29.54	**121.81**
MW-14	03/23/04	1809009.9622	6542038.2203	150.65	37.86	**112.79**
	06/16/04	1809009.9622	6542038.2203	150.65	36.16	**114.49**
	09/09/04	1809009.9622	6542038.2203	150.65	37.84	**112.81**
	12/01/04	1809009.9622	6542038.2203	150.65	38.94	**111.71**
	02/17/05	1809009.9622	6542038.2203	150.65	38.16	**112.49**
	05/16/05	1809009.9622	6542038.2203	150.65	30.15	**120.50**
	08/11/05	1809009.9622	6542038.2203	150.65	27.98	**122.67**
	11/07/05	1809009.9622	6542038.2203	150.65	28.85	**121.80**

ft/msl = Feet Above Mean Sea Level.

QA/QC AMP

Table 2
Summary of Groundwater Samples Analyzed for Volatile Organic Compounds (VOCs)
Bodycote Thermal Processing, Techni-Braze Facility
Santa Fe Springs, CA
LFR 002-10272-00

Location	Sample ID	Date Sampled	Lab	Lab ID	1,1,1,2-Tetrachloroethane EPA 8260B µg/l	1,1,1-Trichloroethane EPA 8260B µg/l	1,1,2-Trichloroethane EPA 8260B µg/l	1,1-Dichloroethane EPA 8260B µg/l	1,1-Dichloroethene EPA 8260B µg/l	1,2-Dichloroethane EPA 8260B µg/l	Chloroform EPA 8260B µg/l	cis-1,2-Dichloroethene EPA 8260B µg/l	Ethylbenzene EPA 8260B µg/l	m,p-Xylene EPA 8260B µg/l	o-Xylene EPA 8260B µg/l	Tetrachloroethene EPA 8260B µg/l	Toluene EPA 8260B µg/l	Trichloroethene EPA 8260B µg/l
MCA-1	MCA1-032404	03/24/04	SunStar	T400280-03	<1.0	<1.0	<1.0	<1.0	**1.0**	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**2,200**	<0.5	**95**
	MCA1-061604	06/16/04	SunStar	T400648-13	**1.4**	<1.0	<1.0	<1.0	**1.3**		<1.0	<1.0	<0.5	<1.0	<0.5	**2,100**	<0.5	**110**
	MCA1-090904	09/09/04	SunStar	T401024-13	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**3,500**	<0.5	**120**
	MCA1-120204	12/02/04	SunStar	T401434-13	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	**1.4**	<1.0	<0.5	<1.0	<0.5	**8,000**	<0.5	**140**
	MCA1-021705	2/17/2005	SunStar	T50019407	**2.6**	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**5,100**	<0.5	**140**
	MLA1-051705	05/17/05	SunStar	T50059107	<1.0	<1.0	<1.0	<1.0	**2.6**	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**5,900**	<0.5	**110**
	MCA1-081205	08/12/05	SunStar	T500934-02	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**620**	<0.5	**33**
	MCA1-110805	11/08/05	SunStar	T501329-03	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**760**	<0.5	**23**
MCA-2	MCA2-032404	03/24/04	SunStar	T400280-05	<1.0	<1.0	<1.0	<1.0	**2.2**	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**3,000**	<0.5	**22**
	MCA2-061604	06/16/04	SunStar	T400648-14	**2.4**	<1.0	<1.0	<1.0	**3.3**		<1.0	<1.0	<0.5	<1.0	<0.5	**3,000**	<0.5	**35**
	MCA2-090904	09/09/04	SunStar	T401024-15	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**2,300**	<0.5	**21**
	MCA2-120204	12/02/04	SunStar	T401434-11	<1.0	**3.5**	<1.0	<1.0	**14**	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**2,300**	<0.5	**17**
	MCA2-021705	02/17/05	SunStar	T50019404	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**490**	<0.5	**6.7**
	MLA2-051705	05/17/05	SunStar	T50059109	<1.0	**3.6**	<1.0	<1.0	**16**	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**1,500**	<0.5	**19**
	MCA2-081205	08/12/05	SunStar	T500934-04	<1.0	<1.0	<1.0	<1.0	**8.4**	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**900**	<0.5	**25**
	MCA2-110805	11/08/05	SunStar	T501329-05	<1.0	<1.0	<1.0	<1.0	**8.0**	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	1,000	<0.5	**12**
MCA-3	MCA3-032404	03/24/04	SunStar	T400280-08	<1.0	<1.0	<1.0	<1.0	**6.8**	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**220**	<0.5	**2.9**
	MCA3-061604	06/16/04	SunStar	T400648-15	<1.0	<1.0	<1.0	<1.0	**12**		<1.0	<1.0	<0.5	<1.0	<0.5	**210**	<0.5	**3.3**
	MCA3-090904	09/09/04	SunStar	T401024-12	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**170**	<0.5	**3.4**
	MCA3-120104	12/01/04	SunStar	T401434-05	<1.0	<1.0	<1.0	<1.0	**19**	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**200**	<0.5	**3.8**
	MCA3-021705	02/17/05	SunStar	T50019410	<1.0	<1.0	<1.0	<1.0	**15**	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**160**	<0.5	**3.9**
	MLA3-051705	05/17/05	SunStar	T50059106	<1.0	<1.0	**2.1**	**12**	**280**	**4.6**	<1.0	<1.0	<0.5	<1.0	<0.5	**440**	<0.5	**36**

Table 2
Summary of Groundwater Samples Analyzed for Volatile Organic Compounds (VOCs)
Bodycote Thermal Processing, Techni-Braze Facility
Santa Fe Springs, CA
LFR 002-10272-00

Location	Sample ID	Date Sampled	Lab	Lab ID	1,1,1,2-Tetrachloroethane EPA 8260B µg/l	1,1,1-Trichloroethane EPA 8260B µg/l	1,1,2-Trichloroethane EPA 8260B µg/l	1,1-Dichloroethane EPA 8260B µg/l	1,1-Dichloroethene EPA 8260B µg/l	1,2-Dichloroethane EPA 8260B µg/l	Chloroform EPA 8260B µg/l	cis-1,2-Dichloroethene EPA 8260B µg/l	Ethylbenzene EPA 8260B µg/l	m,p-Xylene EPA 8260B µg/l	o-Xylene EPA 8260B µg/l	Tetrachloroethene EPA 8260B µg/l	Toluene EPA 8260B µg/l	Trichloroethene EPA 8260B µg/l
MCA-3	MCA3-081205	08/12/05	SunStar	T500934-01	<1.0	<1.0	<1.0	<1.0	**86**	<0.5	**5.2**	<1.0	<0.5	<1.0	<0.5	**350**	<0.5	**25**
	MCA3-110805	11/08/05	SunStar	T501329-01	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	<1.0	<0.5	<1.0
MCA-4	MCA4-032404	03/24/04	SunStar	T400280-04	**4.5**	<1.0	**1.4**	<1.0	**8.3**	<0.5	<1.0	**1.0**	<0.5	<1.0	<0.5	**12,000**	<0.5	**22**
	MCA4-061604	06/16/04	SunStar	T400648-16	**7.2**	<1.0	<1.0	<1.0	**9.7**		<1.0	<1.0	<0.5	<1.0	<0.5	**14,000**	**1.0**	**27**
	DUP-061604	06/16/04	SunStar	T400648-18	**6.3**	<1.0	<1.0	<1.0	**9.6**		<1.0	<1.0	<0.5	<1.0	<0.5	**14,000**	<0.5	**26**
	MCA4-090904	09/09/04	SunStar	T401024-14	<1.0	<1.0	<1.0	<1.0	**7.4**	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**9,700**	<0.5	**26**
	MCA4-120204	12/02/04	SunStar	T401434-12	**4.5**	<1.0	<1.0	<1.0	**5.7**	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**9,600**	<0.5	**18**
	MCA4-021705	02/17/05	SunStar	T50019406	**3.0**	<1.0	<1.0	<1.0	**6.1**	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**5,600**	<0.5	**18**
	MLA4-051705	05/17/05	SunStar	T50059108	<1.0	<1.0	<1.0	<1.0	**7.2**	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**5,800**	<0.5	**11**
	MCA4-081205	08/12/05	SunStar	T500934-03	<1.0	<1.0	<1.0	<1.0	**3.7**	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**1,100**	<0.5	**19**
	MCA4-110805	11/08/05	SunStar	T501329-04	<1.0	**1.9**	<1.0	<1.0	**9.8**	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**3,000**	<0.5	**21**
MW-1	MW1-032304	03/24/04	SunStar	T400280-14	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	<1.0	<0.5	<1.0
	DUP-032304	03/24/04	SunStar	T400280-19	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	<1.0	<0.5	<1.0
	MW1-061604	06/16/04	SunStar	T400648-01	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	<1.0	<0.5	<1.0
	MW1-090904	09/09/04	SunStar	T401024-02	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	<1.0	<0.5	<1.0
	MW1-120104	12/01/04	SunStar	T401434-01	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	<1.0	**24**	<1.0
	MW1-021705	02/17/05	SunStar	T50019411	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**1.4**	**1.8**	<1.0
	MW1-051605	05/16/05	SunStar	T50059002	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	<1.0	<0.5	<1.0
	MW1-081105	08/11/05	SunStar	T5005933	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	<1.0	<0.5	<1.0
	MW1-110705	11/07/05	SunStar	T501326-02	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	<1.0	<0.5	<1.0

Table 2
Summary of Groundwater Samples Analyzed for Volatile Organic Compounds (VOCs)
Bodycote Thermal Processing, Techni-Braze Facility
Santa Fe Springs, CA
LFR 002-10272-00

Location	Sample ID	Date Sampled	Lab	Lab ID	1,1,1,2-Tetrachloroethane EPA 8260B µg/l	1,1,1-Trichloroethane EPA 8260B µg/l	1,1,2-Trichloroethane EPA 8260B µg/l	1,1-Dichloroethane EPA 8260B µg/l	1,1-Dichloroethene EPA 8260B µg/l	1,2-Dichloroethane EPA 8260B µg/l	Chloroform EPA 8260B µg/l	cis-1,2-Dichloroethene EPA 8260B µg/l	Ethylbenzene EPA 8260B µg/l	m,p-Xylene EPA 8260B µg/l	o-Xylene EPA 8260B µg/l	Tetrachloroethene EPA 8260B µg/l	Toluene EPA 8260B µg/l	Trichloroethene EPA 8260B µg/l
MW-2	MW2-032304	03/24/04	SunStar	T400280-18	<1.0	<1.0	<1.0	<1.0	**1.3**	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**5.8**	<0.5	**3.0**
	MW2-061604	06/16/04	SunStar	T400648-02	<1.0	<1.0	<1.0	<1.0	**1.0**		<1.0	<1.0	<0.5	<1.0	<0.5	**3.6**	**1.2**	**3.4**
	MW2-090904	09/09/04	SunStar	T401024-05	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**3.7**	**43**	**3.5**
	MW2-120104	12/01/04	SunStar	T401434-02	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**3.0**	**2.8**	**4.4**
	MW2-021705	02/17/05	SunStar	T50019412	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**2.9**	<0.5	**3.8**
	MW2-051605	05/16/05	SunStar	T50059003	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**1.1**	**3.1**	<1.0
	MW2-081105	08/11/05	SunStar	T5005933	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**1.7**	<0.5	**2.0**
	MW2-110705	11/07/05	SunStar	T501326-03	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	<1.0	<0.5	<1.0
MW-3	MW3-032304	03/24/04	SunStar	T400280-16	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**51**	**2.7**	**3.7**
	MW3-061604	06/16/04	SunStar	T400648-03	<1.0	<1.0	<1.0	<1.0	**1.1**		<1.0	<1.0	<0.5	<1.0	<0.5	**47**	<0.5	**4.7**
	MW3-090904	09/09/04	SunStar	T401024-04	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	**1.2**	<0.5	**49**	**68**	**3.6**
	MW3-120104	12/01/04	SunStar	T401434-03	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**45**	<0.5	**4.9**
	MW3-021705	02/17/05	SunStar	T50019413	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**44**	<0.5	**5.2**
	MW3-051605	05/16/05	SunStar	T50059004	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**72**	<0.5	**7.9**
	MW3-081105	08/11/05	SunStar	T5005933	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**38**	<0.5	**8.0**
	MW3-110705	11/07/05	SunStar	T501326-04	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**67**	<0.5	**5.8**
MW-5	MW5-032404	03/24/04	SunStar	T400280-07	**1.4**	**2.0**	<1.0	**1.6**	**39**	<0.5	**2.8**	<1.0	<0.5	<1.0	<0.5	**2,500**	<0.5	**21**
	MW5-061604	06/16/04	SunStar	T400648-04	**1.2**	**3.0**	<1.0	<1.0	**17**		<1.0	<1.0	<0.5	<1.0	<0.5	**3,300**	**1.2**	**20**
	MW5-090904	09/09/04	SunStar	T401024-03	<1.0	**2.8**	<1.0	<1.0	**10**	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**3,200**	<0.5	**17**
	MW5-120104	12/01/04	SunStar	T401434-08	<1.0	**2.6**	<1.0	<1.0	**11**	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**2,700**	**5.9**	**21**
	MW5-021705	02/17/05	SunStar	T50019418	<1.0	**5.1**	<1.0	<1.0	**17**	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**1,200**	**11**	**17**

Table 2
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Bodycote Thermal Processing, Techni-Braze Facility
Santa Fe Springs, CA
LFR 002-10272-00

Location	Sample ID	Date Sampled	Lab	Lab ID	1,1,1,2-Tetrachloroethane EPA 8260B µg/l	1,1,1-Trichloroethane EPA 8260B µg/l	1,1,2-Trichloroethane EPA 8260B µg/l	1,1-Dichloroethane EPA 8260B µg/l	1,1-Dichloroethene EPA 8260B µg/l	1,2-Dichloroethane EPA 8260B µg/l	Chloroform EPA 8260B µg/l	cis-1,2-Dichloroethene EPA 8260B µg/l	Ethylbenzene EPA 8260B µg/l	m,p-Xylene EPA 8260B µg/l	o-Xylene EPA 8260B µg/l	Tetrachloroethene EPA 8260B µg/l	Toluene EPA 8260B µg/l	Trichloroethene EPA 8260B µg/l
MW-5	MW5-051605	05/16/05	SunStar	T50059007	<1.0	7.0	<1.0	<1.0	33	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	2,100	<0.5	19
	MW5-081105	08/11/05	SunStar	T5005933	<1.0	5.1	<1.0	<1.0	20	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	990	<0.5	27
	MW5-110705	11/07/05	SunStar	T501326-06	<1.0	3.1	<1.0	<1.0	16	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	640	<0.5	26
	DUP-110705	11/07/05	SunStar	T501326-09	<1.0	3.0	<1.0	<1.0	15	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	630	<0.5	27
MW-6	MW6-032304	03/24/04	SunStar	T400280-15	<1.0	<1.0	<1.0	<1.0	1.1	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	750	<0.5	20
	MW6-061604	06/16/04	SunStar	T400648-05	<1.0	<1.0	<1.0	<1.0	1.1		<1.0	<1.0	<0.5	<1.0	<0.5	520	1.1	19
	MW6-090904	09/09/04	SunStar	T401024-01	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	530	<0.5	20
	MW6-120104	12/01/04	SunStar	T401434-06	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	890	29	27
	MW6-021705	02/17/05	SunStar	T50019415	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	320	16	19
	MW6-051605	05/16/05	SunStar	T50059006	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	620	<0.5	19
	MW6-081105	08/11/05	SunStar	T5005933	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	380	<0.5	13
	MW6-110705	11/07/05	SunStar	T501326-07	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	640	<0.5	17
MW-7	MW7-032404	03/24/04	SunStar	T400280-09	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	160	<0.5	3.5
	MW7-061604	06/16/04	SunStar	T400648-06	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	150	1.9	5.1
	MW7-090904	09/09/04	SunStar	T401024-06	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	250	<0.5	5.4
	MW7-120104	12/01/04	SunStar	T401434-04	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	140	27	4.6
	MW7-021705	02/17/05	SunStar	T50019414	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	130	13	6.5
	MW7-051605	05/16/05	SunStar	T50059005	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	320	<0.5	9.5
	MW7-081105	08/11/05	SunStar	T5005933	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	220	<0.5	11
	MW7-110705	11/07/05	SunStar	T501326-05	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	120	<0.5	5.3

Table 2
Summary of Groundwater Samples Analyzed for Volatile Organic Compounds (VOCs)
Bodycote Thermal Processing, Techni-Braze Facility
Santa Fe Springs, CA
LFR 002-10272-00

Location	Sample ID	Date Sampled	Lab	Lab ID	1,1,1,2-Tetrachloroethane EPA 8260B µg/l	1,1,1-Trichloroethane EPA 8260B µg/l	1,1,2-Trichloroethane EPA 8260B µg/l	1,1-Dichloroethane EPA 8260B µg/l	1,1-Dichloroethene EPA 8260B µg/l	1,2-Dichloroethane EPA 8260B µg/l	Chloroform EPA 8260B µg/l	cis-1,2-Dichloroethene EPA 8260B µg/l	Ethylbenzene EPA 8260B µg/l	m,p-Xylene EPA 8260B µg/l	o-Xylene EPA 8260B µg/l	Tetrachloroethene EPA 8260B µg/l	Toluene EPA 8260B µg/l	Trichloroethene EPA 8260B µg/l
MW-8	MW8-032404	03/24/04	SunStar	T400280-01	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	390	<0.5	22
	MW8-061604	06/16/04	SunStar	T400648-07	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	290	<0.5	20
	MW8-090904	09/09/04	SunStar	T401024-11	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	260	<0.5	16
	MW8-120204	12/02/04	SunStar	T401434-09	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	380	<0.5	22
	MW8-021705	02/17/05	SunStar	T50019409	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	270	<0.5	21
	MW8-051705	05/17/05	SunStar	T50059105	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	470	<0.5	25
	MW8-081205	08/12/05	SunStar	T500934-06	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	400	<0.5	26
	MW8-110805	11/08/05	SunStar	T501329-02	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	360	<0.5	19
MW-9	MW9-032304	03/24/04	SunStar	T400280-13	**3.4**	<1.0	<1.0	<1.0	**2.6**	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	4,300	<0.5	38
	MW9-061604	06/16/04	SunStar	T400648-08	**4.8**	<1.0	<1.0	<1.0	**5.3**		<1.0	<1.0	<0.5	<1.0	<0.5	7,500	<0.5	60
	MW9-090904	09/09/04	SunStar	T401024-10	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	2,600	<0.5	24
	MW9-120204	12/02/04	SunStar	T401434-14	**2.4**	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	2,400	<0.5	17
	MW9-021705	02/17/05	SunStar	T50019403	**2.8**	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	1,500	<0.5	24
	MW9-051705	05/17/05	SunStar	T50059104	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	5,400	<0.5	32
	MW9-081205	08/12/05	SunStar	T500934-10	<1.0	<1.0	<1.0	<1.0	**4.3**	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	4,400	<0.5	32
	MW9-110805	11/08/05	SunStar	T501329-10	<1.0	<1.0	<1.0	<1.0	**3.6**	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	4,500	<0.5	21
MW-10	MW10-032304	03/24/04	SunStar	T400280-12	**1.4**	<1.0	<1.0	<1.0	**1.8**	<0.5	<1.0	<1.0	**0.65**	**2.7**	**0.90**	2,500	240	43
	MW10-061604	06/16/04	SunStar	T400648-09	**2.4**	<1.0	<1.0	<1.0	**2.4**		<1.0	<1.0	<0.5	<1.0	<0.5	3,200	<0.5	55
	MW10-090904	09/09/04	SunStar	T401024-09	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	4,200	<0.5	37
	MW10-120204	12/02/04	SunStar	T401434-15	**1.8**	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	3,100	<0.5	28
	MW10-021705	02/17/05	SunStar	T50019402	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	2,100	0.99	44

Table 2
Summary of Groundwater Samples Analyzed for Volatile Organic Compounds (VOCs)
Bodycote Thermal Processing, Techni-Braze Facility
Santa Fe Springs, CA
LFR 002-10272-00

Location	Sample ID	Date Sampled	Lab	Lab ID	1,1,1,2-Tetrachloroethane EPA 8260B µg/l	1,1,1-Trichloroethane EPA 8260B µg/l	1,1,2-Trichloroethane EPA 8260B µg/l	1,1-Dichloroethane EPA 8260B µg/l	1,1-Dichloroethene EPA 8260B µg/l	1,2-Dichloroethane EPA 8260B µg/l	Chloroform EPA 8260B µg/l	cis-1,2-Dichloroethene EPA 8260B µg/l	Ethylbenzene EPA 8260B µg/l	m,p-Xylene EPA 8260B µg/l	o-Xylene EPA 8260B µg/l	Tetrachloroethene EPA 8260B µg/l	Toluene EPA 8260B µg/l	Trichloroethene EPA 8260B µg/l
MW-10	MW10-051705	05/17/05	SunStar	T50059103	<1.0	<1.0	<1.0	<1.0	**2.8**	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**4,900**	<0.5	<1.0
	MW10-081205	08/12/05	SunStar	T500934-07	<5	<1.0	<1.0	<1.0	**3**	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**1,900**	<0.5	**31**
	MW10-110805	11/08/05	SunStar	T501329-09	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**2,200**	<0.5	**21**
MW-11	MW11-032304	03/24/04	SunStar	T400280-11	**2.1**	<1.0	<1.0	<1.0	**1.2**	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**2,600**	<0.5	**27**
	MW11-061604	06/16/04	SunStar	T400648-10	**2.2**	<1.0	<1.0	<1.0	**1.4**		<1.0	<1.0	<0.5	<1.0	<0.5	**2,700**	<0.5	**25**
	MW11-090904	09/09/04	SunStar	T401024-16	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**2,600**	<0.5	**23**
	MW11-120204	12/02/04	SunStar	T401434-16	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**380**	<0.5	**5.1**
	MW11-021705	02/17/05	SunStar	T50019401	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**520**	**1.3**	**12**
	MW11-051705	05/17/05	SunStar	T50059102	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**3,500**	<0.5	**34**
	MW11-081205	08/12/05	SunStar	T500934-09	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**2,200**	<0.5	**52**
	MW11-110805	11/08/05	SunStar	T501329-08	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**3,100**	<0.5	**42**
MW-12	MW12-032404	03/24/04	SunStar	T400280-02	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**740**	**3.1**	**14**
	DUP-032404	03/24/04	SunStar	T400280-10	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**810**	**3.2**	**12**
	MW12-061604	06/16/04	SunStar	T400648-11	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**530**	<0.5	**11**
	MW12-090904	09/09/04	SunStar	T401024-17	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**380**	<0.5	**6.4**
	MW12-120104	12/01/04	SunStar	T401434-07	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**110**	<0.5	**4.0**
	MW12-021705	02/17/05	SunStar	T50019408	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**210**	<0.5	**9.4**
	MW12-051705	05/17/05	SunStar	T50059101	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**800**	<0.5	**13**
	MW12-081205	08/12/05	SunStar	T500934-08	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**450**	<0.5	**18**
	MW12-110805	11/08/05	SunStar	T501329-07	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**460**	<0.5	**16**
MW-14	MW14-032404	03/24/04	SunStar	T400280-06	**1.5**	<1.0	<1.0	<1.0	**5.2**	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**3,400**	<0.5	**18**
	MW14-061604	06/16/04	SunStar	T400648-12	**1.8**	<1.0	<1.0	<1.0	**5.6**		<1.0	<1.0	<0.5	<1.0	<0.5	**25,000**	<0.5	**25**

Table 2
Summary of Groundwater Samples Analyzed for Volatile Organic Compounds (VOCs)
Bodycote Thermal Processing, Techni-Braze Facility
Santa Fe Springs, CA
LFR 002-10272-00

Location	Sample ID	Date Sampled	Lab	Lab ID	1,1,1,2-Tetrachloroethane EPA 8260B µg/l	1,1,1-Trichloroethane EPA 8260B µg/l	1,1,2-Trichloroethane EPA 8260B µg/l	1,1-Dichloroethane EPA 8260B µg/l	1,1-Dichloroethene EPA 8260B µg/l	1,2-Dichloroethane EPA 8260B µg/l	Chloroform EPA 8260B µg/l	cis-1,2-Dichloroethene EPA 8260B µg/l	Ethylbenzene EPA 8260B µg/l	m,p-Xylene EPA 8260B µg/l	o-Xylene EPA 8260B µg/l	Tetrachloroethene EPA 8260B µg/l	Toluene EPA 8260B µg/l	Trichloroethene EPA 8260B µg/l
MW-14	MW14-090904	09/09/04	SunStar	T401024-08	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**3,400**	<0.5	**14**
	DUP-090904	09/09/04	SunStar	T401024-18	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**3,500**	<0.5	**15**
	MW14-120204	12/02/04	SunStar	T401434-10	<1.0	**2.5**	<1.0	<1.0	**9.3**	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**2,600**	<0.5	**14**
	DUP-1204	12/01/04	SunStar	T401434-18	<1.0	**3.4**	<1.0	<1.0	**14**	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**2,400**	<0.5	**17**
	MW14-021705	02/17/05	SunStar	T50019405	<1.0	**4.0**	<1.0	<1.0	**14**	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**1,200**	<0.5	**11**
	DUP-021705	02/17/05	SunStar	T50019416	<1.0	**4.0**	<1.0	<1.0	**15**	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**1,300**	<0.5	**11**
	MW14-051705	05/17/05	SunStar	T50059110	<1.0	<1.0	<1.0	<1.0	**8.4**	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**1,300**	<0.5	**27**
	DUP-051705	05/17/05	SunStar	T50059111	<1.0	<1.0	<1.0	<1.0	**8.2**	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**1,300**	<0.5	**29**
	MW14-081205	08/12/05	SunStar	T500934-05	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**470**	<0.5	**16**
	DUP-081205	08/12/05	SunStar	T500934-11	<1.0	<1.0	<1.0	<1.0	**5.6**	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**420**	<0.5	**15**
	MW14-110805	11/08/05	SunStar	T501329-06	<1.0	<1.0	<1.0	<1.0	**5.6**	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**380**	<0.5	**13**
Equipment Blanks																		
Blank	EB-032304	03/24/04	SunStar	T400280-17	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	<1.0	<0.5	<1.0
Blank	EB-061604	06/16/04	SunStar	T400648-17	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	<1.0	<0.5	<1.0
Blank	EB-090904	09/09/04	SunStar	T401024-07	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	<1.0	<0.5	<1.0
Blank	EB-1-120104	12/01/04	SunStar	T401434-17	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**3.2**	<0.5	<1.0
	EB-021705	02/17/05	SunStar	T50019417	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	**1.4**	<0.5	<1.0

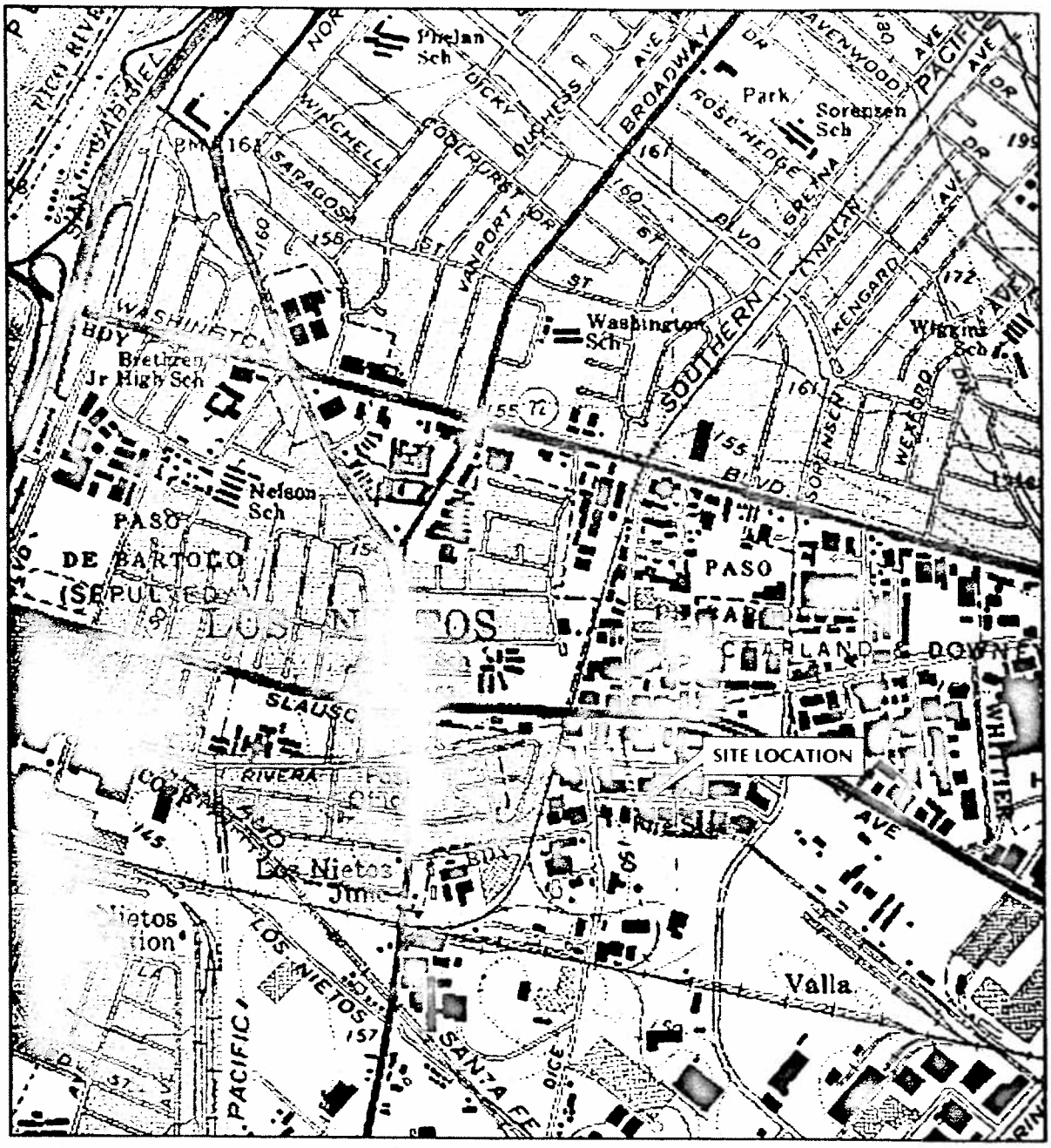
Table 2
Summary of Groundwater Samples Analyzed for Volatile Organic Compounds (VOCs)
Bodycote Thermal Processing, Techni-Braze Facility
Santa Fe Springs, CA
LFR 002-10272-00

Location	Sample ID	Date Sampled	Lab	Lab ID	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	Chloroform	cis-1,2-Dichloroethene	Ethylbenzene	m,p-Xylene	o-Xylene	Tetrachloroethene	Toluene	Trichloroethene
					EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B
					µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
	EB-051605	05/16/05	SunStar	T50059001	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	<1.0	<0.5	<1.0
	EB-081105	08/11/05	SunStar	T5005933-02	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	<1.0	<0.5	<1.0
	EB-110705	11/07/05	SunStar	T501326-01	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	<1.0	<0.5	<1.0
	TRIP BLANK	11/08/05	SunStar	T501329-11	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<0.5	<1.0	<0.5	<1.0	<0.5	<1.0

< = Not detected above laboratory reporting limit indicated.
Note: VOCs are shown for detected compounds only. See laboratory reports for a complete list of compounds analyzed.
SunStar = SunStar Laboratories Inc., Tustin, CA.

QA/QC

FIGURES



■ Site

0 2000 ft

Vicinity Map

Bodycote Techni Braze - Project 002-10272-00

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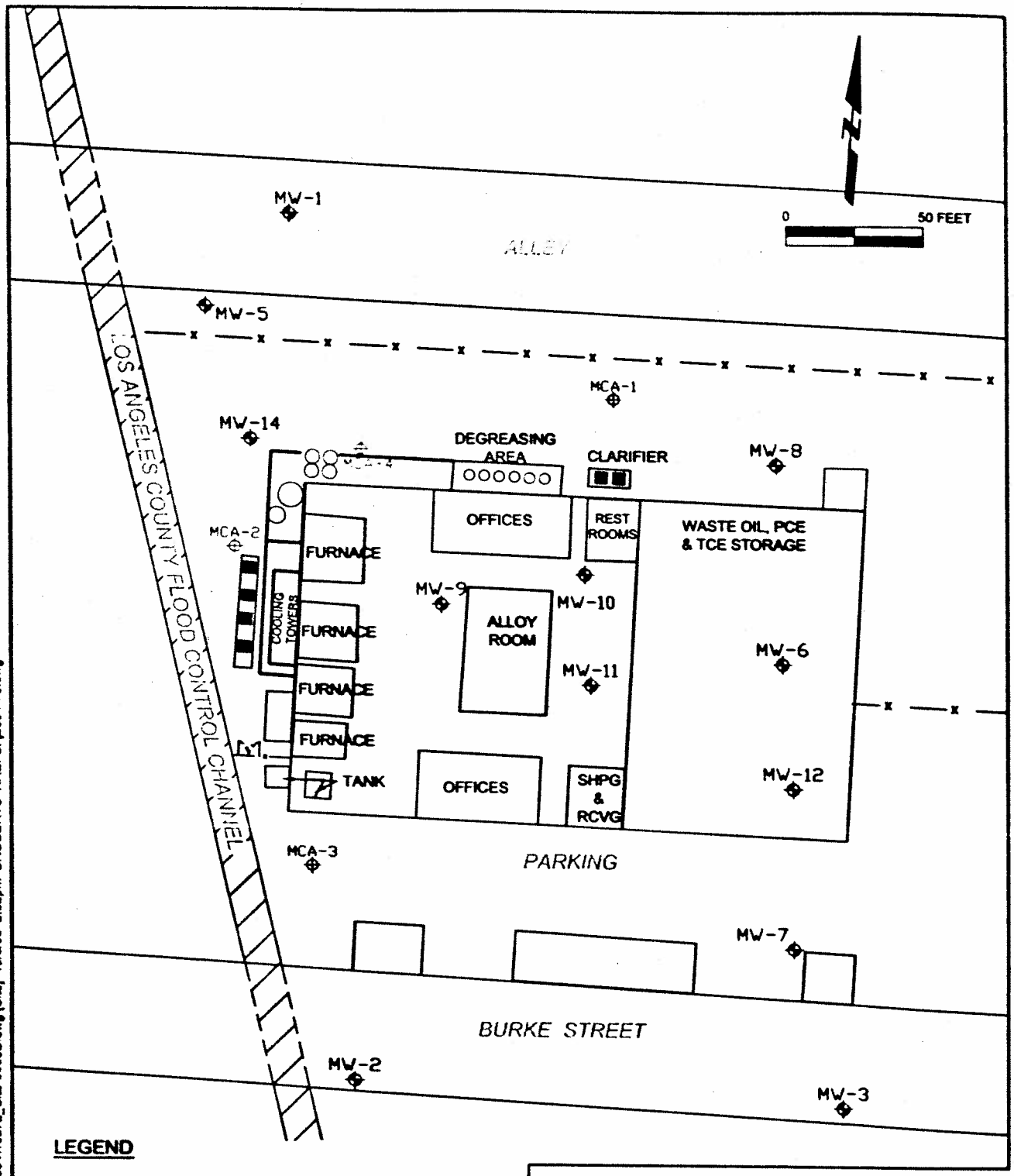
Figure 1

10272 Vicinity Map.ai



LEGEND

MW-1 — Groundwater Monitoring Well - installed by Klienfelder (1991) and TerraVac (January 1995)

MCA-1 — Groundwater Monitoring Well - installed by Mabbet Cappacio And Associates (August 1991)

Fenceline

Site Plan Showing Well Locations

Bodycote Techni Braze - Project 002-10272-00

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Figure 2

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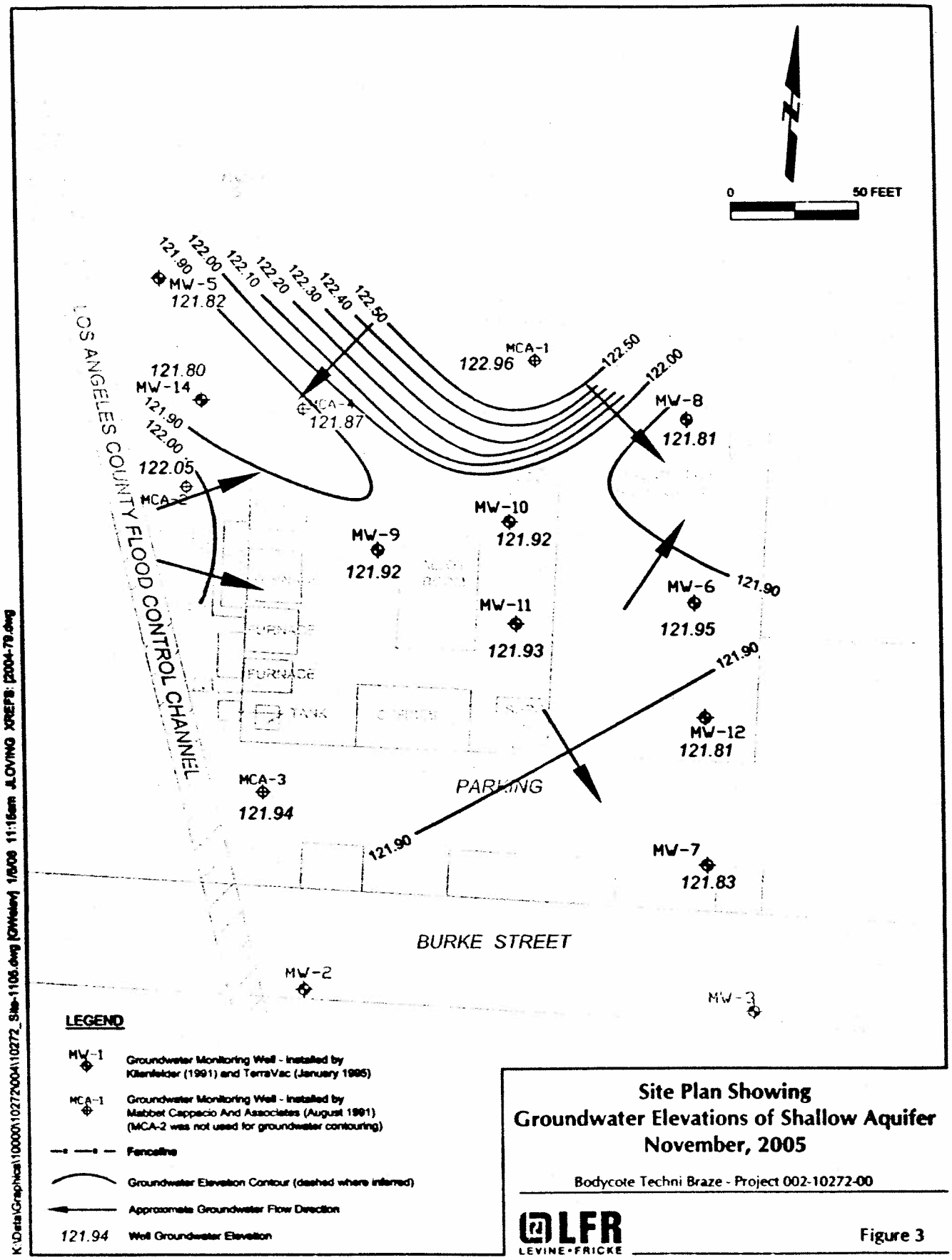

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Site Plan Showing
Groundwater Elevations of Shallow Aquifer
November, 2005

Bodycote Techni Braze - Project 002-10272-00

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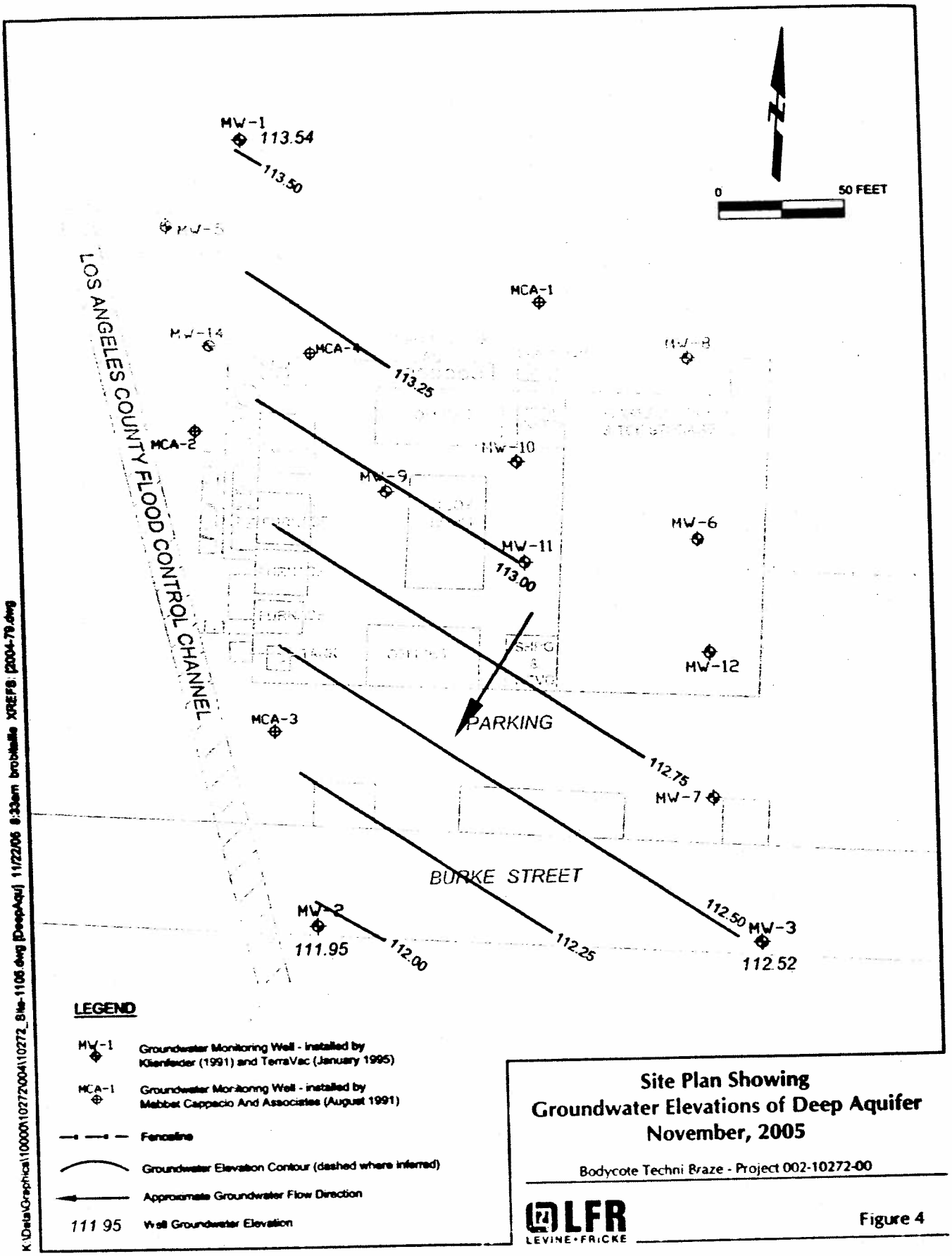
Figure 3



Site Plan Showing
Groundwater Elevations of Deep Aquifer
November, 2005

Bodycote Techni Braze - Project 002-10272-00

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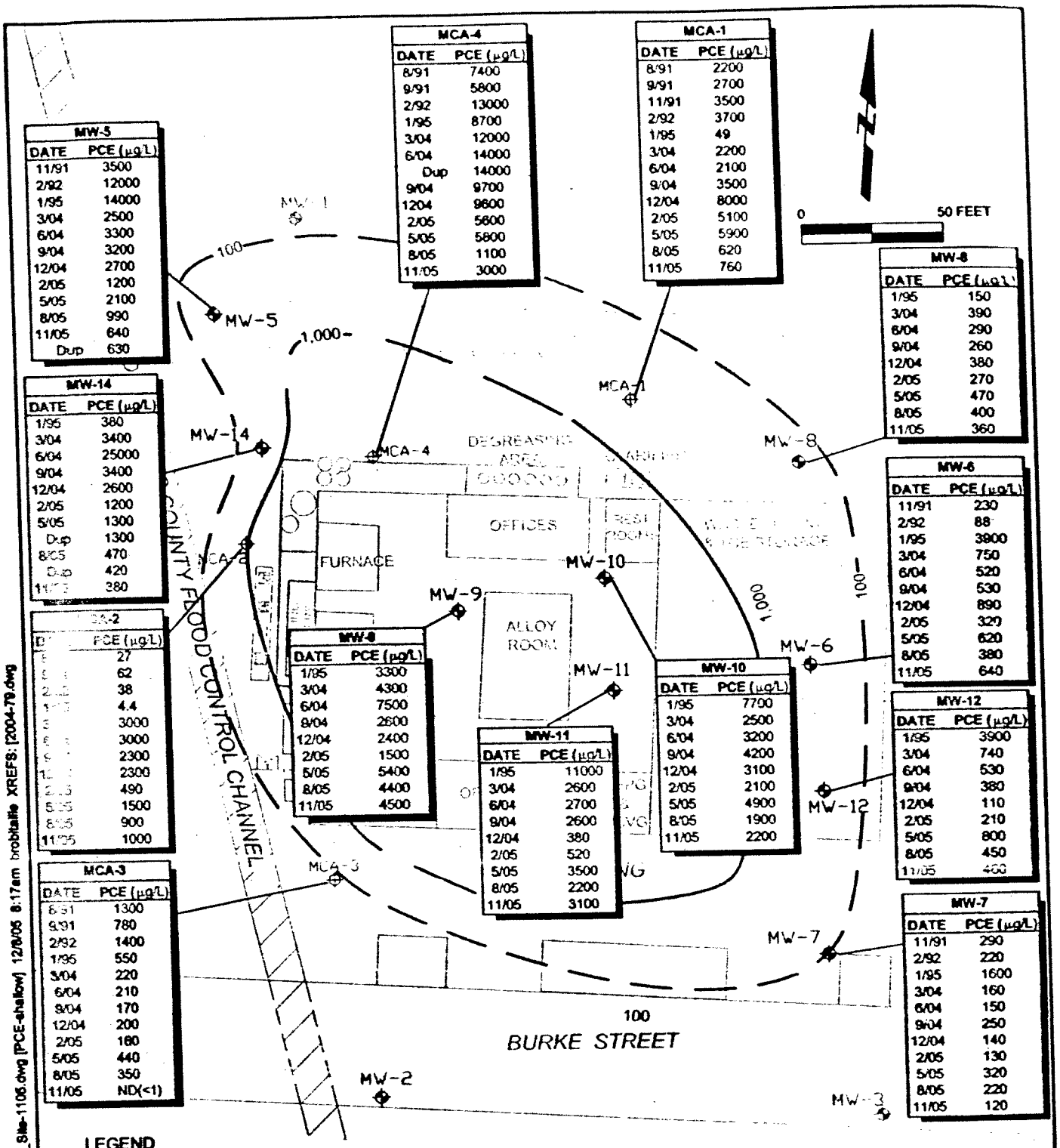
Figure 4



LEGEND

MW-1 — Groundwater Monitoring Well - installed by Klienfelder (1991) and TerraVac (January 1995)

MCA-1 — Groundwater Monitoring Well - installed by Mabbet Cappacio And Associates (August 1991)

Fenceline

PCE Isoconcentration Contour (dashed where inferred) based on November 2005 data

PCE - Tetrachloroethene

PCE Data - Shallow Groundwater November, 2005

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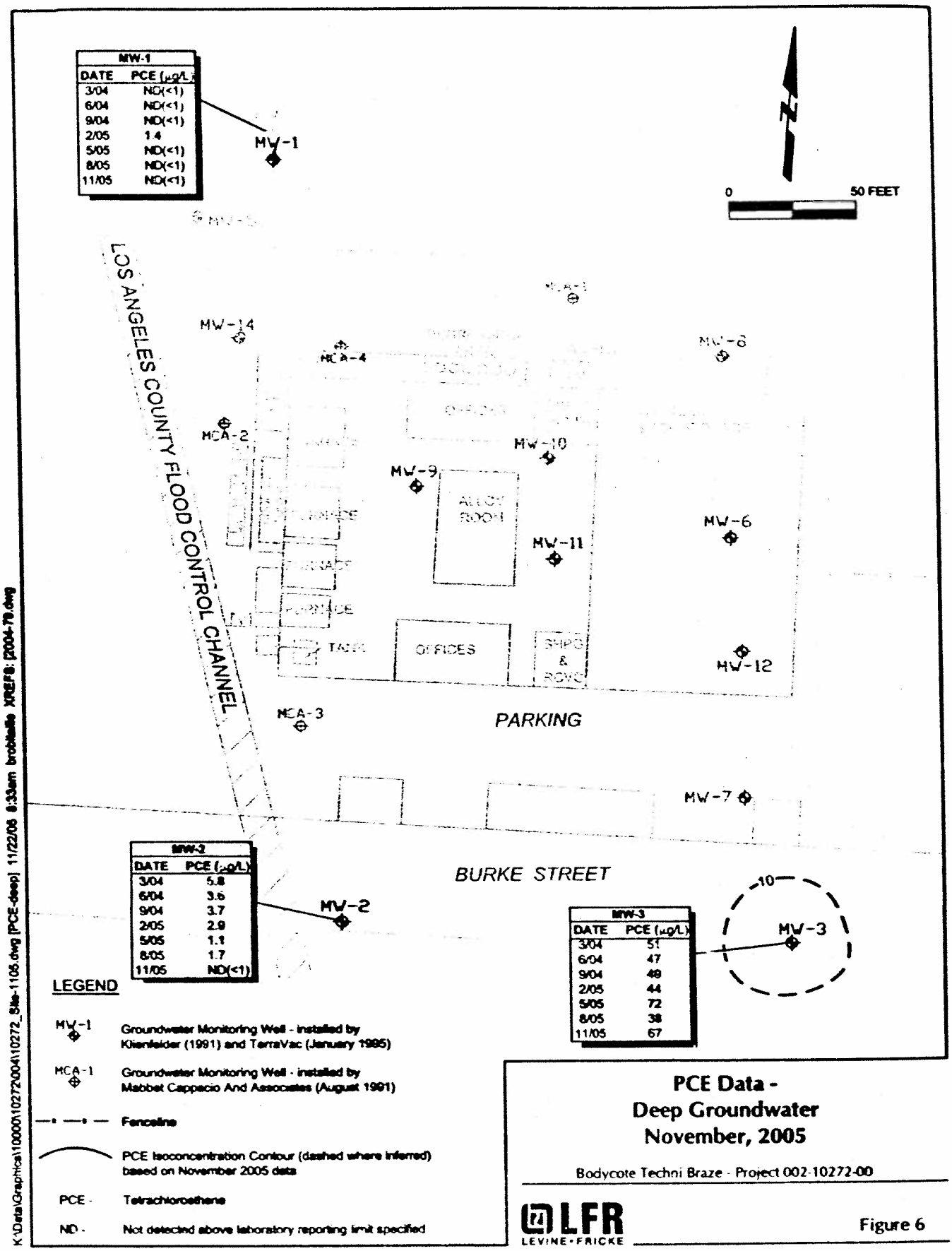
Figure 5

K:\Data\Graphics\10000\10272\004\10272_Site-1105.dwg [PCE-shallow] 12/8/05 8:17am brobitaille XREFS: [2004-79.dwg



PCE Data -
Deep Groundwater
November, 2005

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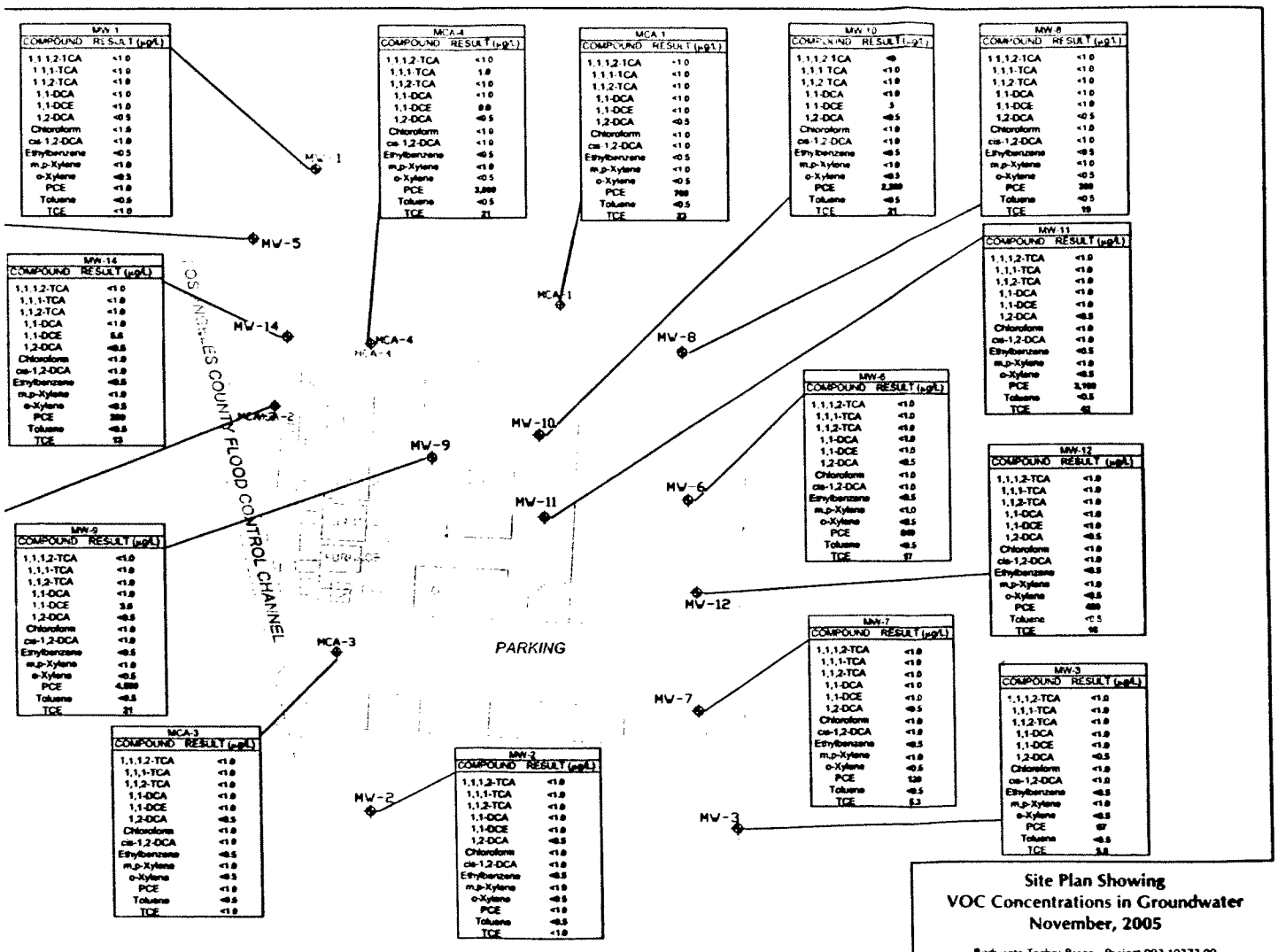
Figure 6

K:\Data\Graphics\10000\10272\004\10272_Site-1105.dwg [PCE-deep] 11/22/05 8:33am brobitaille XREFS: [2004-79.dwg



MW-1	
COMPOUND	RESULT (µg/L)
1,1,1,2-TCA	<1.0
1,1,1-TCA	<1.0
1,1,2-TCA	<1.0
1,1-DCA	<1.0
1,1-DCE	<1.0
1,2-DCA	<0.5
Chloroform	<1.0
cis-1,2-DCA	<1.0
Ethylbenzene	<0.5
m,p-Xylene	<1.0
o-Xylene	<0.5
PCE	<1.0
Toluene	<0.5
TCE	<1.0

MW-14	
COMPOUND	RESULT (µg/L)
1,1,1,2-TCA	<1.0
1,1,1-TCA	<1.0
1,1,2-TCA	<1.0
1,1-DCA	<1.0
1,1-DCE	5.6
1,2-DCA	<0.5
Chloroform	<1.0
cis-1,2-DCA	<1.0
Ethylbenzene	<0.5
m,p-Xylene	<1.0
o-Xylene	<0.5
PCE	380
Toluene	<0.5
TCE	13

MW-9	
COMPOUND	RESULT (µg/L)
1,1,1,2-TCA	<1.0
1,1,1-TCA	<1.0
1,1,2-TCA	<1.0
1,1-DCA	<1.0
1,1-DCE	3.0
1,2-DCA	<0.5
Chloroform	<1.0
cis-1,2-DCA	<1.0
Ethylbenzene	<0.5
m,p-Xylene	<1.0
o-Xylene	<0.5
PCE	4,800
Toluene	<0.5
TCE	21

MCA-3	
COMPOUND	RESULT (µg/L)
1,1,1,2-TCA	<1.0
1,1,1-TCA	<1.0
1,1,2-TCA	<1.0
1,1-DCA	<1.0
1,1-DCE	<1.0
1,2-DCA	<0.5
Chloroform	<1.0
cis-1,2-DCA	<1.0
Ethylbenzene	<0.5
m,p-Xylene	<1.0
o-Xylene	<0.5
PCE	<1.0
Toluene	<0.5
TCE	<1.0

MCA-4	
COMPOUND	RESULT (µg/L)
1,1,1,2-TCA	<1.0
1,1,1-TCA	1.0
1,1,2-TCA	<1.0
1,1-DCA	<1.0
1,1-DCE	8.0
1,2-DCA	<0.5
Chloroform	<1.0
cis-1,2-DCA	<1.0
Ethylbenzene	<0.5
m,p-Xylene	<1.0
o-Xylene	<0.5
PCE	3,800
Toluene	<0.5
TCE	21

MW-2	
COMPOUND	RESULT (µg/L)
1,1,1,2-TCA	<1.0
1,1,1-TCA	<1.0
1,1,2-TCA	<1.0
1,1-DCA	<1.0
1,1-DCE	<1.0
1,2-DCA	<0.5
Chloroform	<1.0
cis-1,2-DCA	<1.0
Ethylbenzene	<0.5
m,p-Xylene	<1.0
o-Xylene	<0.5
PCE	<1.0
Toluene	<0.5
TCE	<1.0

MCA-1	
COMPOUND	RESULT (µg/L)
1,1,1,2-TCA	<1.0
1,1,1-TCA	<1.0
1,1,2-TCA	<1.0
1,1-DCA	<1.0
1,1-DCE	<1.0
1,2-DCA	<0.5
Chloroform	<1.0
cis-1,2-DCA	<1.0
Ethylbenzene	<0.5
m,p-Xylene	<1.0
o-Xylene	<0.5
PCE	[illegible]
Toluene	<0.5
TCE	23

MW-10	
COMPOUND	RESULT (µg/L)
1,1,1,2-TCA	<1.0
1,1,1-TCA	<1.0
1,1,2-TCA	<1.0
1,1-DCA	<1.0
1,1-DCE	3
1,2-DCA	<0.5
Chloroform	<1.0
cis-1,2-DCA	<1.0
Ethylbenzene	<0.5
m,p-Xylene	<1.0
o-Xylene	<0.5
PCE	2,300
Toluene	<0.5
TCE	21

MW-8	
COMPOUND	RESULT (µg/L)
1,1,1,2-TCA	<1.0
1,1,1-TCA	<1.0
1,1,2-TCA	<1.0
1,1-DCA	<1.0
1,1-DCE	<1.0
1,2-DCA	<0.5
Chloroform	<1.0
cis-1,2-DCA	<1.0
Ethylbenzene	<0.5
m,p-Xylene	<1.0
o-Xylene	<0.5
PCE	300
Toluene	<0.5
TCE	19

MW-11	
COMPOUND	RESULT (µg/L)
1,1,1,2-TCA	<1.0
1,1,1-TCA	<1.0
1,1,2-TCA	<1.0
1,1-DCA	<1.0
1,1-DCE	<1.0
1,2-DCA	<0.5
Chloroform	<1.0
cis-1,2-DCA	<1.0
Ethylbenzene	<0.5
m,p-Xylene	<1.0
o-Xylene	<0.5
PCE	3,100
Toluene	<0.5
TCE	42

MW-6	
COMPOUND	RESULT (µg/L)
1,1,1,2-TCA	<1.0
1,1,1-TCA	<1.0
1,1,2-TCA	<1.0
1,1-DCA	<1.0
1,1-DCE	<1.0
1,2-DCA	<0.5
Chloroform	<1.0
cis-1,2-DCA	<1.0
Ethylbenzene	<0.5
m,p-Xylene	<1.0
o-Xylene	<0.5
PCE	800
Toluene	<0.5
TCE	57

MW-12	
COMPOUND	RESULT (µg/L)
1,1,1,2-TCA	<1.0
1,1,1-TCA	<1.0
1,1,2-TCA	<1.0
1,1-DCA	<1.0
1,1-DCE	<1.0
1,2-DCA	<0.5
Chloroform	<1.0
cis-1,2-DCA	<1.0
Ethylbenzene	<0.5
m,p-Xylene	<1.0
o-Xylene	<0.5
PCE	480
Toluene	<0.5
TCE	16

MW-7	
COMPOUND	RESULT (µg/L)
1,1,1,2-TCA	<1.0
1,1,1-TCA	<1.0
1,1,2-TCA	<1.0
1,1-DCA	<1.0
1,1-DCE	<1.0
1,2-DCA	<0.5
Chloroform	<1.0
cis-1,2-DCA	<1.0
Ethylbenzene	<0.5
m,p-Xylene	<1.0
o-Xylene	<0.5
PCE	130
Toluene	<0.5
TCE	5.3

MW-3	
COMPOUND	RESULT (µg/L)
1,1,1,2-TCA	<1.0
1,1,1-TCA	<1.0
1,1,2-TCA	<1.0
1,1-DCA	<1.0
1,1-DCE	<1.0
1,2-DCA	<0.5
Chloroform	<1.0
cis-1,2-DCA	<1.0
Ethylbenzene	<0.5
m,p-Xylene	<1.0
o-Xylene	<0.5
PCE	67
Toluene	<0.5
TCE	5.8

Site Plan Showing
VOC Concentrations in Groundwater
November, 2005

Bodycote Techni Braze - Project 002-10272-00

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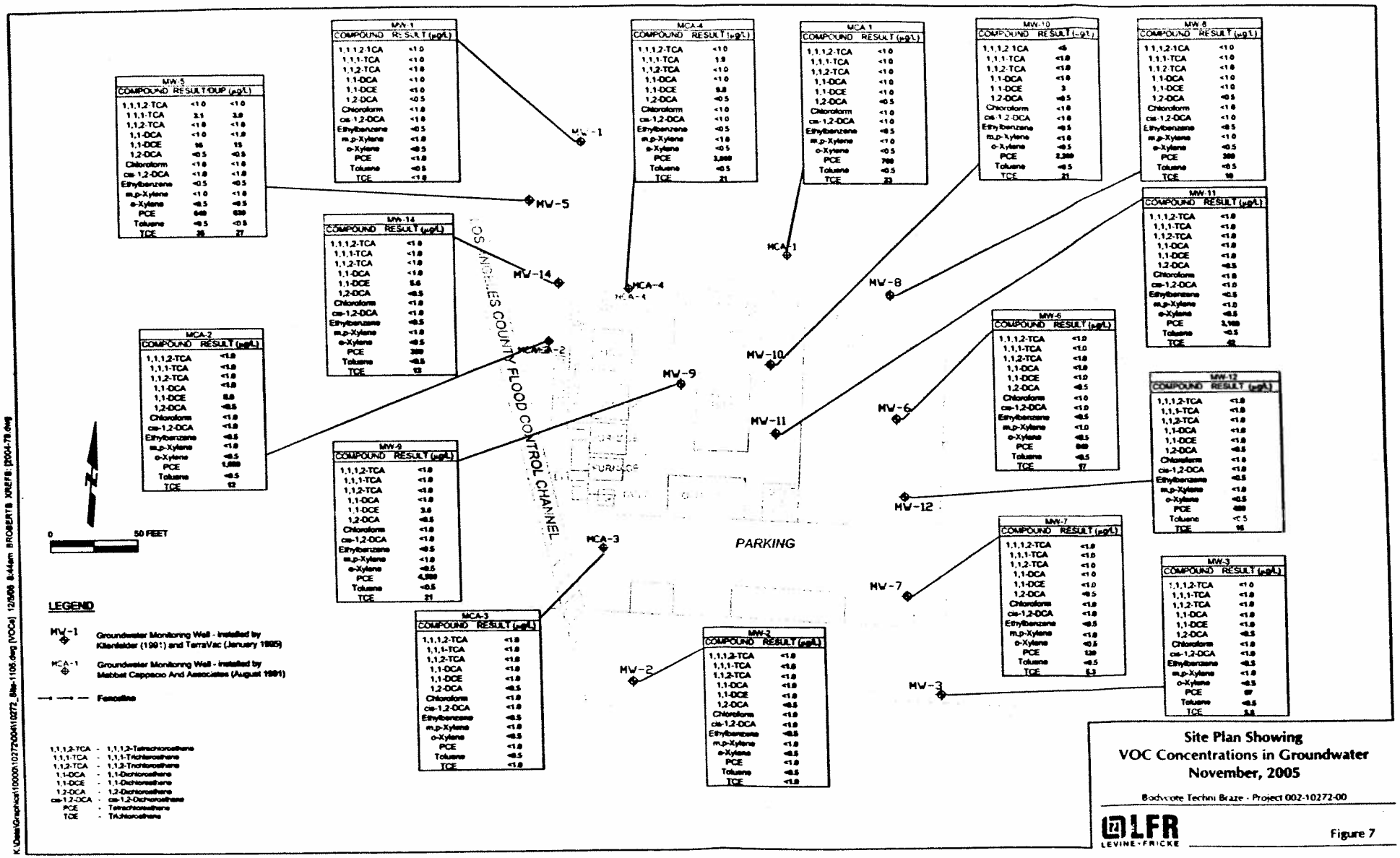
Figure 7



Site Plan Showing
VOC Concentrations in Groundwater
November, 2005

Bodycote Techni Braze - Project 002-10272-00

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Figure 7