

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : MKM Engineers
Address : 1036 Hubert Rd.
Oakland, California 94610

Contact: Joel I. Cehn, CHP
Project: **BBI**

Report Date: March 3, 2004

Page 1 of 2

Client Sample ID: MC-01
Sample ID: 106869001
Matrix: Soil
Collect Date: 10-FEB-04 12:00
Receive Date: 11-FEB-04
Collector: Client
Moisture: .172%

Project: MKME00104
Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
LC-MS/MS Perchlorate												
<i>SW846 8321A Modified Perchlorate by LC-MS/MS</i>												
Perchlorate	U	ND		0.498	1.99	ug/kg	1	JLW	02/20/04	1523	309599	1
Semi-Volatiles-PCB												
<i>8082/3550B PCB in Soil</i>												
Aroclor-1016	U	ND		1.00	3.34	ug/kg	1	JMW1	02/13/04	1503	309327	2
Aroclor-1221	U	ND		2.82	3.34	ug/kg	1					
Aroclor-1232	U	ND		1.67	3.34	ug/kg	1					
Aroclor-1242	U	ND		1.67	3.34	ug/kg	1					
Aroclor-1248	U	ND		1.00	3.34	ug/kg	1					
Aroclor-1254	U	ND		0.501	3.34	ug/kg	1					
Aroclor-1260	U	ND		1.00	3.34	ug/kg	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3550B	3550B PCB Prep Soil	AGS1	02/12/04	1400	309326
SW846 8321A Modified	SW846 8321A Modified Perchlorate Extraction S	JLW	02/17/04	1400	309598

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8321A Modified	
2	SW846 8082	

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
4cmx	8082/3550B PCB in Soil	76	(51%-114%)
Decachlorobiphenyl	8082/3550B PCB in Soil	78	(51%-121%)

Notes:

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- < Result is less than amount reported.
- > Result is greater than amount reported.
- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.

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Project: **BBI**

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Client Sample ID: MC-01
Sample ID: 106869001

Project: MKME00104
Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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H Analytical holding time exceeded.

J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.

P The response between the confirmation column and the primary column is >40%D.

U Indicates the target analyte was analyzed for but not detected above the detection limit.

UI Uncertain identification for gamma spectroscopy.

X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.

Y QC Samples were not spiked with this compound.

h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis except where prohibited by the analytical procedure.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Amy Jamison.

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Project: **BBI**

Report Date: March 3, 2004

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Client Sample ID: DH-01
Sample ID: 106869002
Matrix: Soil
Collect Date: 10-FEB-04 12:00
Receive Date: 11-FEB-04
Collector: Client
Moisture: 1.08%

Project: MKME00104
Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
LC-MS/MS Perchlorate												
<i>SW846 8321A Modified Perchlorate by LC-MS/MS</i>												
Perchlorate		3.03		0.498	1.99	ug/kg	1	JLW	02/20/04	1544	309599	1
Semi-Volatiles-PCB												
<i>8082/3550B PCB in Soil</i>												
Aroclor-1016	U	ND		1.01	3.37	ug/kg	1	JMW1	02/13/04	1540	309327	2
Aroclor-1221	U	ND		2.85	3.37	ug/kg	1					
Aroclor-1232	U	ND		1.68	3.37	ug/kg	1					
Aroclor-1242	U	ND		1.68	3.37	ug/kg	1					
Aroclor-1248	U	ND		1.01	3.37	ug/kg	1					
Aroclor-1254	U	ND		0.505	3.37	ug/kg	1					
Aroclor-1260	U	ND		1.01	3.37	ug/kg	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3550B	3550B PCB Prep Soil	AGS1	02/12/04	1400	309326
SW846 8321A Modified	SW846 8321A Modified Perchlorate Extraction S	JLW	02/17/04	1400	309598

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8321A Modified	
2	SW846 8082	

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
4cmx	8082/3550B PCB in Soil	77	(51%-114%)
Decachlorobiphenyl	8082/3550B PCB in Soil	64	(51%-121%)

Notes:

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- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.

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Project: **BBI**

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Client Sample ID: DH-01
Sample ID: 106869002

Project: MKME00104
Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- Y QC Samples were not spiked with this compound.
- h Sample preparation or preservation holding time exceeded.

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Client Sample ID: BA-1
Sample ID: 106869003
Matrix: Soil
Collect Date: 10-FEB-04 12:00
Receive Date: 11-FEB-04
Collector: Client
Moisture: 1.35%

Project: MKME00104
Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
LC-MS/MS Perchlorate												
<i>SW846 8321A Modified Perchlorate by LC-MS/MS</i>												
Perchlorate	U	ND		0.506	2.03	ug/kg	1	JLW	02/20/04	1551	309599	1
Semi-Volatiles-PCB												
<i>8082/3550B PCB in Soil</i>												
Aroclor-1016	U	ND		1.01	3.38	ug/kg	1	JMW1	02/13/04	1552	309327	2
Aroclor-1221	U	ND		2.86	3.38	ug/kg	1					
Aroclor-1232	U	ND		1.69	3.38	ug/kg	1					
Aroclor-1242	U	ND		1.69	3.38	ug/kg	1					
Aroclor-1248	U	ND		1.01	3.38	ug/kg	1					
Aroclor-1254	U	ND		0.507	3.38	ug/kg	1					
Aroclor-1260	U	ND		1.01	3.38	ug/kg	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3550B	3550B PCB Prep Soil	AGS1	02/12/04	1400	309326
SW846 8321A Modified	SW846 8321A Modified Perchlorate Extraction S	JLW	02/17/04	1400	309598

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8321A Modified	
2	SW846 8082	

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
4cmx	8082/3550B PCB in Soil	73	(51%-114%)
Decachlorobiphenyl	8082/3550B PCB in Soil	72	(51%-121%)

Notes:

The Qualifiers in this report are defined as follows :

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- > Result is greater than amount reported.
- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.

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Project: **BBI**

Client Sample ID: BA-1
Sample ID: 106869003

Project: MKME00104
Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
-----------	-----------	--------	-------------	----	----	-------	----	---------	------	------	-------	--------

- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- Y QC Samples were not spiked with this compound.
- h Sample preparation or preservation holding time exceeded.

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 Oakland, California 94610

Report Date: March 3, 2004

Contact: Joel I. Cehn, CHP
 Project: **BBI**

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Client Sample ID: RT-3
 Sample ID: 106869004
 Matrix: Soil
 Collect Date: 10-FEB-04 12:00
 Receive Date: 11-FEB-04
 Collector: Client
 Moisture: 3.81%

Project: MKME00104
 Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Semi-Volatiles-PCB											
<i>8082/3550B PCB in Soil</i>											
Aroclor-1016	U	ND		1.04	3.47	ug/kg	1	JMW102/16/04	1159	309327	1
Aroclor-1221	U	ND		2.93	3.47	ug/kg	1				
Aroclor-1232	U	ND		1.73	3.47	ug/kg	1				
Aroclor-1242	U	ND		1.73	3.47	ug/kg	1				
Aroclor-1248	U	ND		1.04	3.47	ug/kg	1				
Aroclor-1254	U	ND		0.520	3.47	ug/kg	1				
Aroclor-1260	U	ND		1.04	3.47	ug/kg	1				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3550B	3550B PCB Prep Soil	AGS1	02/12/04	1400	309326

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8082	

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
4cmx	8082/3550B PCB in Soil	76	(51%-114%)
Decachlorobiphenyl	8082/3550B PCB in Soil	86	(51%-121%)

Notes:

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- > Result is greater than amount reported.
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- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
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Client Sample ID: RT-3
Sample ID: 106869004

Project: MKME00104
Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
-----------	-----------	--------	-------------	----	----	-------	----	-------------	------	-------	--------

Y QC Samples were not spiked with this compound.
h Sample preparation or preservation holding time exceeded.

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Report Date: March 3, 2004

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Client Sample ID: RT-2
Sample ID: 106869005
Matrix: Soil
Collect Date: 10-FEB-04 12:00
Receive Date: 11-FEB-04
Collector: Client
Moisture: 15.6%

Project: MKME00104
Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
<i>7471 Cold Vapor Hg in Solid</i>												
Mercury	J	6.95		1.13	11.5	ug/kg	1	NOR1	02/17/04	1247	309386	1
Metals Analysis-ICP												
<i>6010/3050 RCRA Metals Solid</i>												
Arsenic		3.97		0.241	0.584	mg/kg	1	RMJ	02/13/04	1705	309337	2
Barium		54.2		0.078	0.584	mg/kg	1					
Beryllium	J	0.540		0.0584	0.584	mg/kg	1					
Cadmium	U	ND		0.0559	0.584	mg/kg	1					
Chromium		15.0		0.188	0.584	mg/kg	1					
Lead		5.03		0.332	0.584	mg/kg	1					
Selenium		2.11		0.189	0.584	mg/kg	1					
Silver	U	ND		0.105	0.584	mg/kg	1					
Semi-Volatiles-PCB												
<i>8082/3550B PCB in Soil</i>												
Aroclor-1016	U	ND		1.19	3.95	ug/kg	1	JMW1	02/16/04	1211	309327	3
Aroclor-1221	U	ND		3.34	3.95	ug/kg	1					
Aroclor-1232	U	ND		1.98	3.95	ug/kg	1					
Aroclor-1242	U	ND		1.98	3.95	ug/kg	1					
Aroclor-1248	U	ND		1.19	3.95	ug/kg	1					
Aroclor-1254	U	ND		0.593	3.95	ug/kg	1					
Aroclor-1260	U	ND		1.19	3.95	ug/kg	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	846 3050BS PREP	FGA	02/12/04	1000	309336
SW846 3550B	3550B PCB Prep Soil	AGS1	02/12/04	1400	309326
SW846 7471A Prep	EPA 7471A Mercury Prep Soil	ETL	02/16/04	1630	309385

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 7471A	
2	SW846 3050B/6010B	
3	SW846 8082	

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
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Certificate of Analysis

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Project: **BBI**

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Client Sample ID: RT-2 Project: MKME00104
Sample ID: 106869005 Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
4cmx	8082/3550B	PCB in Soil				65				(51%-114%)		
Decachlorobiphenyl	8082/3550B	PCB in Soil				85				(51%-121%)		

Notes:

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- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- Y QC Samples were not spiked with this compound.
- h Sample preparation or preservation holding time exceeded.

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Project: **BBI**

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Client Sample ID: DA-1
Sample ID: 106869006
Matrix: Soil
Collect Date: 10-FEB-04 12:00
Receive Date: 11-FEB-04
Collector: Client
Moisture: 4.06%

Project: MKME00104
Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
<i>7471 Cold Vapor Hg in Solid</i>												
Mercury		11.1		0.984	10.0	ug/kg	1	NOR1	02/17/04	1249	309386	1
Metals Analysis-ICP												
<i>6010/3050 RCRA Metals Solid</i>												
Arsenic		5.59		0.211	0.512	mg/kg	1	RMJ	02/13/04	1710	309337	2
Barium		96.7		0.0683	0.512	mg/kg	1					
Beryllium		0.909		0.0512	0.512	mg/kg	1					
Cadmium	J	0.138		0.0489	0.512	mg/kg	1					
Chromium		26.1		0.165	0.512	mg/kg	1					
Lead		12.4		0.290	0.512	mg/kg	1					
Selenium		3.67		0.166	0.512	mg/kg	1					
Silver	U	ND		0.0924	0.512	mg/kg	1					
Semi-Volatiles-PCB												
<i>8082/3550B PCB in Soil</i>												
Aroclor-1016	U	ND		1.04	3.47	ug/kg	1	JMW1	02/13/04	1628	309327	3
Aroclor-1221	U	ND		2.94	3.47	ug/kg	1					
Aroclor-1232	U	ND		1.74	3.47	ug/kg	1					
Aroclor-1242		7.00		1.74	3.47	ug/kg	1					
Aroclor-1248	U	ND		1.04	3.47	ug/kg	1					
Aroclor-1254	U	ND		0.521	3.47	ug/kg	1					
Aroclor-1260	U	ND		1.04	3.47	ug/kg	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	846 3050BS PREP	FGA	02/12/04	1000	309336
SW846 3550B	3550B PCB Prep Soil	AGS1	02/12/04	1400	309326
SW846 7471A Prep	EPA 7471A Mercury Prep Soil	ETL	02/16/04	1630	309385

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 7471A	
2	SW846 3050B/6010B	
3	SW846 8082	

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
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Project: **BBI**

Report Date: March 3, 2004

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Client Sample ID: DA-1
Sample ID: 106869006
Project: MKME00104
Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
4cmx		8082/3550B PCB in Soil				73						
Decachlorobiphenyl		8082/3550B PCB in Soil				74						

Notes:

The Qualifiers in this report are defined as follows :

- < Result is less than amount reported.
- > Result is greater than amount reported.
- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- Y QC Samples were not spiked with this compound.
- h Sample preparation or preservation holding time exceeded.

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Contact: Joel I. Cehn, CHP
Project: **BBI**

Report Date: March 3, 2004

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Client Sample ID: CIT-01
Sample ID: 106869007
Matrix: Soil
Collect Date: 10-FEB-04 12:00
Receive Date: 11-FEB-04
Collector: Client
Moisture: 7.8%

Project: MKME00104
Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
<i>7471 Cold Vapor Hg in Solid</i>												
Mercury		22.5		0.993	10.1	ug/kg	1	NOR1	02/17/04	1251	309386	1
Metals Analysis-ICP												
<i>6010/3050 RCRA Metals Solid</i>												
Arsenic		3.50		0.222	0.537	mg/kg	1	RMJ	02/13/04	1716	309337	2
Barium		63.6		0.0716	0.537	mg/kg	1					
Beryllium		0.555		0.0537	0.537	mg/kg	1					
Cadmium	J	0.0794		0.0513	0.537	mg/kg	1					
Chromium		19.9		0.173	0.537	mg/kg	1					
Lead		11.9		0.305	0.537	mg/kg	1					
Selenium		1.48		0.174	0.537	mg/kg	1					
Silver	U	ND		0.0969	0.537	mg/kg	1					
Semi-Volatiles-PCB												
<i>8082/3550B PCB in Soil</i>												
Aroclor-1016	U	ND		1.08	3.62	ug/kg	1	JMW1	02/13/04	1653	309327	3
Aroclor-1221	U	ND		3.06	3.62	ug/kg	1					
Aroclor-1232	U	ND		1.81	3.62	ug/kg	1					
Aroclor-1242	U	ND		1.81	3.62	ug/kg	1					
Aroclor-1248	U	ND		1.08	3.62	ug/kg	1					
Aroclor-1254	U	ND		0.542	3.62	ug/kg	1					
Aroclor-1260	U	ND		1.08	3.62	ug/kg	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	846 3050BS PREP	FGA	02/12/04	1000	309336
SW846 3550B	3550B PCB Prep Soil	AGS1	02/12/04	1400	309326
SW846 7471A Prep	EPA 7471A Mercury Prep Soil	ETL	02/16/04	1630	309385

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 7471A	
2	SW846 3050B/6010B	
3	SW846 8082	

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : MKM Engineers
 Address : 1036 Hubert Rd.
 Oakland, California 94610

Report Date: March 3, 2004

Contact: Joel I. Cehn, CHP
 Project: **BBI**

Page 2 of 2

Client Sample ID: CIT-01 Project: MKME00104
 Sample ID: 106869007 Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
4cmx	8082/3550B	PCB in Soil				75				(51%-114%)		
Decachlorobiphenyl	8082/3550B	PCB in Soil				79				(51%-121%)		

Notes:

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- < Result is less than amount reported.
- > Result is greater than amount reported.
- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- Y QC Samples were not spiked with this compound.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis except where prohibited by the analytical procedure.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Amy Jamison.

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Certificate of Analysis

Company : MKM Engineers
Address : 1036 Hubert Rd.
Oakland, California 94610

Contact: Joel I. Cehn, CHP
Project: **BBI**

Report Date: March 3, 2004

Page 1 of 2

Client Sample ID: HV-01
Sample ID: 106869008
Matrix: Soil
Collect Date: 10-FEB-04 12:00
Receive Date: 11-FEB-04
Collector: Client
Moisture: 2.36%

Project: MKME00104
Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
<i>7471 Cold Vapor Hg in Solid</i>												
Mercury	J	7.67		0.891	9.06	ug/kg	1	NOR1	02/17/04	1257	309386	1
Metals Analysis-ICP												
<i>6010/3050 RCRA Metals Solid</i>												
Arsenic		4.04		0.209	0.506	mg/kg	1	RMJ	02/13/04	1721	309337	2
Barium		54.2		0.0675	0.506	mg/kg	1					
Beryllium	J	0.464		0.0506	0.506	mg/kg	1					
Cadmium	J	0.0537		0.0484	0.506	mg/kg	1					
Chromium		10.3		0.163	0.506	mg/kg	1					
Lead		7.27		0.287	0.506	mg/kg	1					
Selenium		2.21		0.164	0.506	mg/kg	1					
Silver		0.625		0.0913	0.506	mg/kg	1					
Semi-Volatiles-PCB												
<i>8082/3550B PCB in Soil</i>												
Aroclor-1016	U	ND		1.02	3.41	ug/kg	1	JMW1	02/13/04	1705	309327	3
Aroclor-1221	U	ND		2.89	3.41	ug/kg	1					
Aroclor-1232	U	ND		1.71	3.41	ug/kg	1					
Aroclor-1242	U	ND		1.71	3.41	ug/kg	1					
Aroclor-1248	U	ND		1.02	3.41	ug/kg	1					
Aroclor-1254	U	ND		0.512	3.41	ug/kg	1					
Aroclor-1260	U	ND		1.02	3.41	ug/kg	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	846 3050BS PREP	FGA	02/12/04	1000	309336
SW846 3550B	3550B PCB Prep Soil	AGS1	02/12/04	1400	309326
SW846 7471A Prep	EPA 7471A Mercury Prep Soil	ETL	02/16/04	1630	309385

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 7471A	
2	SW846 3050B/6010B	
3	SW846 8082	

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : MKM Engineers
Address : 1036 Hubert Rd.
Oakland, California 94610

Report Date: March 3, 2004

Contact: Joel I. Cehn, CHP
Project: **BBI**

Page 2 of 2

Client Sample ID: HV-01 Project: MKME00104
Sample ID: 106869008 Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
4cmx	8082/3550B	PCB in Soil				72				(51%-114%)		
Decachlorobiphenyl	8082/3550B	PCB in Soil				81				(51%-121%)		

Notes:

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- > Result is greater than amount reported.
- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- Y QC Samples were not spiked with this compound.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis except where prohibited by the analytical procedure.

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This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Amy Jamison.

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Certificate of Analysis

Company : MKM Engineers
Address : 1036 Hubert Rd.
Oakland, California 94610

Contact: Joel I. Cehn, CHP
Project: **BBI**

Report Date: March 3, 2004

Page 1 of 2

Client Sample ID: AC-01
Sample ID: 106869009
Matrix: Soil
Collect Date: 10-FEB-04 12:00
Receive Date: 11-FEB-04
Collector: Client
Moisture: 4.19%

Project: MKME00104
Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
<i>7471 Cold Vapor Hg in Solid</i>												
Mercury		10.7		0.971	9.88	ug/kg	1	NOR1	02/17/04	1259	309386	1
Metals Analysis-ICP												
<i>6010/3050 RCRA Metals Solid</i>												
Arsenic		6.82		0.215	0.521	mg/kg	1	RMJ	02/13/04	1757	309337	2
Barium		81.1		0.0695	0.521	mg/kg	1					
Beryllium		0.756		0.0521	0.521	mg/kg	1					
Cadmium	J	0.175		0.0498	0.521	mg/kg	1					
Chromium		21.2		0.168	0.521	mg/kg	1					
Lead		13.7		0.296	0.521	mg/kg	1					
Selenium		1.78		0.169	0.521	mg/kg	1					
Silver	U	ND		0.094	0.521	mg/kg	1					
Semi-Volatiles-PCB												
<i>8082/3550B PCB in Soil</i>												
Aroclor-1016	U	ND		1.04	3.48	ug/kg	1	JMW1	02/13/04	1717	309327	3
Aroclor-1221	U	ND		2.94	3.48	ug/kg	1					
Aroclor-1232	U	ND		1.74	3.48	ug/kg	1					
Aroclor-1242	U	ND		1.74	3.48	ug/kg	1					
Aroclor-1248	U	ND		1.04	3.48	ug/kg	1					
Aroclor-1254	U	ND		0.522	3.48	ug/kg	1					
Aroclor-1260	U	ND		1.04	3.48	ug/kg	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	846 3050BS PREP	FGA	02/12/04	1000	309336
SW846 3550B	3550B PCB Prep Soil	AGS1	02/12/04	1400	309326
SW846 7471A Prep	EPA 7471A Mercury Prep Soil	ETL	02/16/04	1630	309385

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 7471A	
2	SW846 3050B/6010B	
3	SW846 8082	

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : MKM Engineers
 Address : 1036 Hubert Rd.
 Oakland, California 94610

Report Date: March 3, 2004

Contact: Joel I. Cehn, CHP

Page 2 of 2

Project: **BBI**

Client Sample ID: AC-01
 Sample ID: 106869009

Project: MKME00104
 Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
4cmx		8082/3550B PCB in Soil				76				(51%-114%)		
Decachlorobiphenyl		8082/3550B PCB in Soil				85				(51%-121%)		

Notes:

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- > Result is greater than amount reported.
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- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- Y QC Samples were not spiked with this compound.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis except where prohibited by the analytical procedure.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

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Certificate of Analysis

Company : MKM Engineers
Address : 1036 Hubert Rd.
Oakland, California 94610

Contact: Joel I. Cehn, CHP
Project: **BBI**

Report Date: March 3, 2004

Page 1 of 2

Client Sample ID: OWC-01
Sample ID: 106869010
Matrix: Soil
Collect Date: 10-FEB-04 12:00
Receive Date: 11-FEB-04
Collector: Client
Moisture: 2.3%

Project: MKME00104
Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
<i>7471 Cold Vapor Hg in Solid</i>												
Mercury	J	8.41		0.966	9.83	ug/kg	1	NOR1	02/17/04	1301	309386	1
Metals Analysis-ICP												
<i>6010/3050 RCRA Metals Solid</i>												
Arsenic		1.15		0.208	0.505	mg/kg	1	RMJ	02/13/04	1803	309337	2
Barium		29.4		0.0673	0.505	mg/kg	1					
Beryllium	J	0.178		0.0505	0.505	mg/kg	1					
Cadmium	J	0.122		0.0483	0.505	mg/kg	1					
Chromium		5.11		0.163	0.505	mg/kg	1					
Lead		12.6		0.286	0.505	mg/kg	1					
Selenium		0.681		0.164	0.505	mg/kg	1					
Silver	U	ND		0.091	0.505	mg/kg	1					
Semi-Volatiles-PCB												
<i>8082/3550B PCB in Soil</i>												
Aroclor-1016	U	ND		1.02	3.41	ug/kg	1	JMW1	02/13/04	1730	309327	3
Aroclor-1221	U	ND		2.89	3.41	ug/kg	1					
Aroclor-1232	U	ND		1.71	3.41	ug/kg	1					
Aroclor-1242	U	ND		1.71	3.41	ug/kg	1					
Aroclor-1248	U	ND		1.02	3.41	ug/kg	1					
Aroclor-1254	U	ND		0.512	3.41	ug/kg	1					
Aroclor-1260	U	ND		1.02	3.41	ug/kg	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	846 3050BS PREP	FGA	02/12/04	1000	309336
SW846 3550B	3550B PCB Prep Soil	AGS1	02/12/04	1400	309326
SW846 7471A Prep	EPA 7471A Mercury Prep Soil	ETL	02/16/04	1630	309385

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 7471A	
2	SW846 3050B/6010B	
3	SW846 8082	

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
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GENERAL ENGINEERING LABORATORIES, LLC

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Certificate of Analysis

Company : MKM Engineers
Address : 1036 Hubert Rd.
Oakland, California 94610

Contact: Joel I. Cehn, CHP
Project: **BBI**

Report Date: March 3, 2004

Page 1 of 2

Client Sample ID: NBC-01
Sample ID: 106869011
Matrix: Soil
Collect Date: 10-FEB-04 12:00
Receive Date: 11-FEB-04
Collector: Client
Moisture: 2.65%

Project: MKME00104
Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
<i>7471 Cold Vapor Hg in Solid</i>												
Mercury	J	8.27		0.951	9.68	ug/kg	1	NOR1	02/17/04	1303	309386	1
Metals Analysis-ICP												
<i>6010/3050 RCRA Metals Solid</i>												
Arsenic		3.26		0.209	0.506	mg/kg	1	RMJ	02/13/04	1808	309337	2
Barium		71.5		0.0674	0.506	mg/kg	1					
Beryllium		0.541		0.0506	0.506	mg/kg	1					
Cadmium	J	0.117		0.0483	0.506	mg/kg	1					
Chromium		13.8		0.163	0.506	mg/kg	1					
Lead		6.60		0.287	0.506	mg/kg	1					
Selenium		3.00		0.164	0.506	mg/kg	1					
Silver	U	ND		0.0912	0.506	mg/kg	1					
Semi-Volatiles-PCB												
<i>8082/3550B PCB in Soil</i>												
Aroclor-1016	U	ND		1.03	3.42	ug/kg	1	JMW1	02/13/04	1742	309327	3
Aroclor-1221	U	ND		2.90	3.42	ug/kg	1					
Aroclor-1232	U	ND		1.71	3.42	ug/kg	1					
Aroclor-1242	U	ND		1.71	3.42	ug/kg	1					
Aroclor-1248	U	ND		1.03	3.42	ug/kg	1					
Aroclor-1254	U	ND		0.514	3.42	ug/kg	1					
Aroclor-1260	U	ND		1.03	3.42	ug/kg	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	846 3050BS PREP	FGA	02/12/04	1000	309336
SW846 3550B	3550B PCB Prep Soil	AGS1	02/12/04	1400	309326
SW846 7471A Prep	EPA 7471A Mercury Prep Soil	ETL	02/16/04	1630	309385

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 7471A	
2	SW846 3050B/6010B	
3	SW846 8082	

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : MKM Engineers
Address : 1036 Hubert Rd.
Oakland, California 94610

Contact: Joel I. Cehn, CHP
Project: **BBI**

Report Date: March 3, 2004

Page 2 of 2

Client Sample ID: NBC-01 Project: MKME00104
Sample ID: 106869011 Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
4cmx		8082/3550B PCB in Soil				70						
Decachlorobiphenyl		8082/3550B PCB in Soil				74						

Notes:

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- > Result is greater than amount reported.
- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- Y QC Samples were not spiked with this compound.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis except where prohibited by the analytical procedure.

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Reviewed by _____

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Certificate of Analysis

Company : MKM Engineers
Address : 1036 Hubert Rd.
Oakland, California 94610

Contact: Joel I. Cehn, CHP
Project: **BBI**

Report Date: March 3, 2004

Page 1 of 2

Client Sample ID: RT-01
Sample ID: 106869012
Matrix: Soil
Collect Date: 10-FEB-04 12:00
Receive Date: 11-FEB-04
Collector: Client
Moisture: 3.21%

Project: MKME00104
Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
<i>7471 Cold Vapor Hg in Solid</i>												
Mercury	J	6.72		0.977	9.93	ug/kg	1	NOR1	02/17/04	1305	309386	1
Metals Analysis-ICP												
<i>6010/3050 RCRA Metals Solid</i>												
Arsenic		5.02		0.211	0.510	mg/kg	1	RMJ	02/13/04	1813	309337	2
Barium		44.2		0.0681	0.510	mg/kg	1					
Beryllium		0.535		0.051	0.510	mg/kg	1					
Cadmium	U	ND		0.0488	0.510	mg/kg	1					
Chromium		11.5		0.164	0.510	mg/kg	1					
Lead		6.17		0.290	0.510	mg/kg	1					
Selenium		2.11		0.165	0.510	mg/kg	1					
Silver	U	ND		0.0921	0.510	mg/kg	1					
Semi-Volatiles-PCB												
<i>8082/3550B PCB in Soil</i>												
Aroclor-1016	U	ND		1.03	3.44	ug/kg	1	JMW1	02/16/04	1223	309327	3
Aroclor-1221	U	ND		2.91	3.44	ug/kg	1					
Aroclor-1232	U	ND		1.72	3.44	ug/kg	1					
Aroclor-1242	U	ND		1.72	3.44	ug/kg	1					
Aroclor-1248	U	ND		1.03	3.44	ug/kg	1					
Aroclor-1254	U	ND		0.517	3.44	ug/kg	1					
Aroclor-1260	U	ND		1.03	3.44	ug/kg	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	846 3050BS PREP	FGA	02/12/04	1000	309336
SW846 3550B	3550B PCB Prep Soil	AGS1	02/12/04	1400	309326
SW846 7471A Prep	EPA 7471A Mercury Prep Soil	ETL	02/16/04	1630	309385

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 7471A	
2	SW846 3050B/6010B	
3	SW846 8082	

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
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Company : MKM Engineers
Address : 1036 Hubert Rd.
Oakland, California 94610

Report Date: March 3, 2004

Contact: Joel I. Cehn, CHP
Project: **BBI**

Page 2 of 2

Client Sample ID: RT-01 Project: MKME00104
Sample ID: 106869012 Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
4cmx		8082/3550B PCB in Soil				77				(51%-114%)		
Decachlorobiphenyl		8082/3550B PCB in Soil				87				(51%-121%)		

Notes:

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- < Result is less than amount reported.
- > Result is greater than amount reported.
- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- Y QC Samples were not spiked with this compound.
- h Sample preparation or preservation holding time exceeded.

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GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : MKM Engineers
Address : 1036 Hubert Rd.
Oakland, California 94610

Contact: Joel I. Cehn, CHP
Project: **BBI**

Report Date: March 3, 2004

Page 1 of 2

Client Sample ID: TBC-01
Sample ID: 106869013
Matrix: Soil
Collect Date: 10-FEB-04 12:00
Receive Date: 11-FEB-04
Collector: Client
Moisture: 6.57%

Project: MKME00104
Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
<i>7471 Cold Vapor Hg in Solid</i>												
Mercury		13.9		1.01	10.3	ug/kg	1	NOR1	02/17/04	1307	309386	1
Metals Analysis-ICP												
<i>6010/3050 RCRA Metals Solid</i>												
Arsenic		4.59		0.217	0.525	mg/kg	1	RMJ	02/13/04	1818	309337	2
Barium		81.0		0.070	0.525	mg/kg	1					
Beryllium		0.634		0.0525	0.525	mg/kg	1					
Cadmium	J	0.143		0.0502	0.525	mg/kg	1					
Chromium		18.9		0.169	0.525	mg/kg	1					
Lead		7.35		0.298	0.525	mg/kg	1					
Selenium		2.32		0.170	0.525	mg/kg	1					
Silver	U	ND		0.0947	0.525	mg/kg	1					
Semi-Volatiles-PCB												
<i>8082/3550B PCB in Soil</i>												
Aroclor-1016	U	ND		1.07	3.57	ug/kg	1	JMW1	02/13/04	1806	309327	3
Aroclor-1221	U	ND		3.02	3.57	ug/kg	1					
Aroclor-1232	U	ND		1.78	3.57	ug/kg	1					
Aroclor-1242	U	ND		1.78	3.57	ug/kg	1					
Aroclor-1248	U	ND		1.07	3.57	ug/kg	1					
Aroclor-1254	U	ND		0.535	3.57	ug/kg	1					
Aroclor-1260	U	ND		1.07	3.57	ug/kg	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	846 3050BS PREP	FGA	02/12/04	1000	309336
SW846 3550B	3550B PCB Prep Soil	AGS1	02/12/04	1400	309326
SW846 7471A Prep	EPA 7471A Mercury Prep Soil	ETL	02/16/04	1630	309385

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 7471A	
2	SW846 3050B/6010B	
3	SW846 8082	

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
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Company : MKM Engineers
Address : 1036 Hubert Rd.
Oakland, California 94610

Contact: Joel I. Cehn, CHP
Project: **BBI**

Report Date: March 3, 2004

Page 2 of 2

Client Sample ID: TBC-01 Project: MKME00104
Sample ID: 106869013 Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
4cmx		8082/3550B PCB in Soil				72						
Decachlorobiphenyl		8082/3550B PCB in Soil				81						

Notes:

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- > Result is greater than amount reported.
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- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D.
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- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- Y QC Samples were not spiked with this compound.
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Company : MKM Engineers
Address : 1036 Hubert Rd.
Oakland, California 94610

Contact: Joel I. Cehn, CHP
Project: **BBI**

Report Date: March 3, 2004

Page 1 of 2

Client Sample ID: HBOT-01
Sample ID: 106869014
Matrix: Soil
Collect Date: 10-FEB-04 12:00
Receive Date: 11-FEB-04
Collector: Client
Moisture: 9.23%

Project: MKME00104
Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
LC-MS/MS Perchlorate												
<i>SW846 8321A Modified Perchlorate by LC-MS/MS</i>												
Perchlorate	U	ND		0.537	2.15	ug/kg	1	JLW	02/23/04	0947	309599	1
Mercury Analysis-CVAA												
<i>7471 Cold Vapor Hg in Solid</i>												
Mercury		13.9		1.02	10.4	ug/kg	1	NOR1	02/17/04	1309	309386	2
Metals Analysis-ICP												
<i>6010/3050 RCRA Metals Solid</i>												
Arsenic		7.88		0.227	0.550	mg/kg	1	RMJ	02/13/04	1823	309337	3
Barium		91.0		0.0733	0.550	mg/kg	1					
Beryllium		0.887		0.055	0.550	mg/kg	1					
Cadmium	U	ND		0.0526	0.550	mg/kg	1					
Chromium		23.9		0.177	0.550	mg/kg	1					
Lead		11.3		0.312	0.550	mg/kg	1					
Selenium		2.58		0.178	0.550	mg/kg	1					
Silver	U	ND		0.0992	0.550	mg/kg	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	846 3050BS PREP	FGA	02/12/04	1000	309336
SW846 7471A Prep	EPA 7471A Mercury Prep Soil	ETL	02/16/04	1630	309385
SW846 8321A Modified	SW846 8321A Modified Perchlorate Extraction S	JLW	02/17/04	1400	309598

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8321A Modified	
2	SW846 7471A	
3	SW846 3050B/6010B	

Notes:

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Report Date: March 3, 2004

Contact: Joel I. Cehn, CHP

Project: **BBI**

Page 2 of 2

Client Sample ID: HBOT-01
Sample ID: 106869014

Project: MKME00104
Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
-----------	-----------	--------	-------------	----	----	-------	----	-------------	------	-------	--------

- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- Y QC Samples were not spiked with this compound.
- h Sample preparation or preservation holding time exceeded.

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Oakland, California 94610

Contact: Joel I. Cehn, CHP
Project: **BBI**

Report Date: March 3, 2004

Page 1 of 2

Client Sample ID: OS-9
Sample ID: 106869015
Matrix: Soil
Collect Date: 10-FEB-04 12:00
Receive Date: 11-FEB-04
Collector: Client
Moisture: 53%

Project: MKME00104
Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
LC-MS/MS Perchlorate												
<i>SW846 8321A Modified Perchlorate by LC-MS/MS</i>												
Perchlorate	U	ND		1.04	4.16	ug/kg	1	JLW	02/23/04	0957	309599	1
Mercury Analysis-CVAA												
<i>7471 Cold Vapor Hg in Solid</i>												
Mercury	J	16.3		1.91	19.4	ug/kg	1	NOR1	02/17/04	1311	309386	2
Metals Analysis-ICP												
<i>6010/3050 RCRA Metals Solid</i>												
Arsenic		3.59		0.434	1.05	mg/kg	1	RMJ	02/13/04	1829	309337	3
Barium		59.2		0.140	1.05	mg/kg	1					
Beryllium	J	0.701		0.105	1.05	mg/kg	1					
Cadmium	U	ND		0.101	1.05	mg/kg	1					
Chromium		15.9		0.339	1.05	mg/kg	1					
Lead		11.5		0.597	1.05	mg/kg	1					
Selenium		2.37		0.341	1.05	mg/kg	1					
Silver	U	ND		0.190	1.05	mg/kg	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	846 3050BS PREP	FGA	02/12/04	1000	309336
SW846 7471A Prep	EPA 7471A Mercury Prep Soil	ETL	02/16/04	1630	309385
SW846 8321A Modified	SW846 8321A Modified Perchlorate Extraction S	JLW	02/17/04	1400	309598

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8321A Modified	
2	SW846 7471A	
3	SW846 3050B/6010B	

Notes:

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Company : MKM Engineers
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Oakland, California 94610

Report Date: March 3, 2004

Contact: Joel I. Cehn, CHP
Project: **BBI**

Page 2 of 2

Client Sample ID: OS-9 Project: MKME00104
Sample ID: 106869015 Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
-----------	-----------	--------	-------------	----	----	-------	----	-------------	------	-------	--------

- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- Y QC Samples were not spiked with this compound.
- h Sample preparation or preservation holding time exceeded.

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Address : 1036 Hubert Rd.
Oakland, California 94610

Contact: Joel I. Cehn, CHP
Project: **BBI**

Report Date: March 3, 2004

Page 1 of 2

Client Sample ID: HOBT-02
Sample ID: 106869016
Matrix: Soil
Collect Date: 10-FEB-04 12:00
Receive Date: 11-FEB-04
Collector: Client
Moisture: 21%

Project: MKME00104
Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
LC-MS/MS Perchlorate												
<i>SW846 8321A Modified Perchlorate by LC-MS/MS</i>												
Perchlorate	J	1.23		0.632	2.53	ug/kg	1	JLW	02/23/04	1004	309599	1
Mercury Analysis-CVAA												
<i>7471 Cold Vapor Hg in Solid</i>												
Mercury		38.8		1.11	11.3	ug/kg	1	NOR1	02/17/04	1313	309386	2
Metals Analysis-ICP												
<i>6010/3050 RCRA Metals Solid</i>												
Arsenic		5.35		0.257	0.623	mg/kg	1	RMJ	02/13/04	1834	309337	3
Barium		70.7		0.0831	0.623	mg/kg	1					
Beryllium		0.700		0.0623	0.623	mg/kg	1					
Cadmium	U	ND		0.0596	0.623	mg/kg	1					
Chromium		16.3		0.201	0.623	mg/kg	1					
Lead		11.1		0.354	0.623	mg/kg	1					
Selenium		1.61		0.202	0.623	mg/kg	1					
Silver	U	ND		0.112	0.623	mg/kg	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	846 3050BS PREP	FGA	02/12/04	1000	309336
SW846 7471A Prep	EPA 7471A Mercury Prep Soil	ETL	02/16/04	1630	309385
SW846 8321A Modified	SW846 8321A Modified Perchlorate Extraction S	JLW	02/17/04	1400	309598

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8321A Modified	
2	SW846 7471A	
3	SW846 3050B/6010B	

Notes:

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Company : MKM Engineers
Address : 1036 Hubert Rd.
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Report Date: March 3, 2004

Contact: Joel I. Cehn, CHP

Page 2 of 2

Project: **BBI**

Client Sample ID: HOBT-02
Sample ID: 106869016

Project: MKME00104
Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
-----------	-----------	--------	-------------	----	----	-------	----	-------------	------	-------	--------

- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- Y QC Samples were not spiked with this compound.
- h Sample preparation or preservation holding time exceeded.

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Certificate of Analysis

Company : MKM Engineers
Address : 1036 Hubert Rd.
Oakland, California 94610

Contact: Joel I. Cehn, CHP
Project: **BBI**

Report Date: March 3, 2004

Page 1 of 2

Client Sample ID: BW-9
Sample ID: 106869017
Matrix: Water
Collect Date: 10-FEB-04 12:00
Receive Date: 11-FEB-04
Collector: Client

Project: MKME00104
Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
LC-MS/MS Perchlorate												
<i>SW846 8321A Modified Perchlorate by LC-MS/MS</i>												
Perchlorate	U	ND		0.050	0.200	ug/L	1	JLW	02/23/04	1623	309517	1
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Liquid</i>												
Tritium	U	ND	+/-91.1	160	200	pCi/L		CTO1	02/18/04	1751	310214	2

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8321A Modified	SW846 8321A Perchlorate Extraction in Liquid	JLW	02/12/04	1550	309514

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8321A Modified	
2	EPA 906.0 Modified	

Notes:

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- > Result is greater than amount reported.
- B Target analyte was detected in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
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- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- Y QC Samples were not spiked with this compound.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on an "as received" basis.

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Contact: Joel I. Cehn, CHP

Project: **BBI**

Page 2 of 2

Client Sample ID: BW-9
Sample ID: 106869017

Project: MKME00104
Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
-----------	-----------	--------	-------------	----	----	-------	----	-------------	------	-------	--------

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Reviewed by

Certificate of Analysis

Company : MKM Engineers
 Address : 1036 Hubert Rd.
 Oakland, California 94610

Report Date: March 3, 2004

Contact: Joel I. Cehn, CHP
 Project: **BBI**

Page 1 of 2

Client Sample ID: PINE-99
 Sample ID: 106869018
 Matrix: Water
 Collect Date: 10-FEB-04 12:00
 Receive Date: 11-FEB-04
 Collector: Client

Project: MKME00104
 Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
LC-MS/MS Perchlorate												
<i>SW846 8321A Modified Perchlorate by LC-MS/MS</i>												
Perchlorate	U	ND		0.050	0.200	ug/L	1	JLW	02/23/04	1644	309517	1
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Liquid</i>												
Tritium	U	ND	+/-94.4	160	200	pCi/L		CTO1	02/18/04	1952	310214	2

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8321A Modified	SW846 8321A Perchlorate Extraction in Liquid	JLW	02/12/04	1550	309514

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8321A Modified	
2	EPA 906.0 Modified	

Notes:

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- > Result is greater than amount reported.
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- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D.
- U Indicates the target analyte was analyzed for but not detected above the detection limit.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- Y QC Samples were not spiked with this compound.
- h Sample preparation or preservation holding time exceeded.

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Report Date: March 3, 2004

Contact: Joel I. Cehn, CHP

Project: **BBI**

Page 2 of 2

Client Sample ID: PINE-99
Sample ID: 106869018

Project: MKME00104
Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
-----------	-----------	--------	-------------	----	----	-------	----	-------------	------	-------	--------

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Company : MKM Engineers
Address : 1036 Hubert Rd.
Oakland, California 94610

Contact: Joel I. Cehn, CHP
Project: **BBI**

Report Date: March 3, 2004

Page 1 of 2

Client Sample ID: OWC-02
Sample ID: 106869019
Matrix: Water
Collect Date: 10-FEB-04 12:00
Receive Date: 11-FEB-04
Collector: Client

Project: MKME00104
Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
LC-MS/MS Perchlorate												
<i>SW846 8321A Modified Perchlorate by LC-MS/MS</i>												
Perchlorate	U	ND		0.050	0.200	ug/L	1	JLW	02/23/04	1651	309517	1
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Liquid</i>												
Tritium	U	ND	+/-90.3	159	200	pCi/L		CTO1	02/18/04	2153	310214	2

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8321A Modified	SW846 8321A Perchlorate Extraction in Liquid	JLW	02/12/04	1550	309514

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8321A Modified	
2	EPA 906.0 Modified	

Notes:

The Qualifiers in this report are defined as follows :

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Certificate of Analysis

Company : MKM Engineers
Address : 1036 Hubert Rd.
Oakland, California 94610

Report Date: March 3, 2004

Contact: Joel I. Cehn, CHP

Project: **BBI**

Page 2 of 2

Client Sample ID: OWC-02
Sample ID: 106869019

Project: MKME00104
Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
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 Oakland, California 94610

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Contact: Joel I. Cehn, CHP
 Project: **BBI**

Page 1 of 2

Client Sample ID: RT-1
 Sample ID: 106869020
 Matrix: Water
 Collect Date: 10-FEB-04 12:00
 Receive Date: 11-FEB-04
 Collector: Client

Project: MKME00104
 Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
LC-MS/MS Perchlorate												
<i>SW846 8321A Modified Perchlorate by LC-MS/MS</i>												
Perchlorate	U	ND		0.050	0.200	ug/L	1	JLW	02/23/04	1658	309517	1
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Liquid</i>												
Tritium	U	ND	+/-90.7	157	200	pCi/L		CTO1	02/18/04	2354	310214	2

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8321A Modified	SW846 8321A Perchlorate Extraction in Liquid	JLW	02/12/04	1550	309514

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8321A Modified	
2	EPA 906.0 Modified	

Notes:

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Project: **BBI**

Page 2 of 2

Client Sample ID: RT-1
Sample ID: 106869020

Project: MKME00104
Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
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 Oakland, California 94610

Report Date: March 3, 2004

Contact: Joel I. Cehn, CHP
 Project: **BBI**

Page 1 of 2

Client Sample ID: NBC-2
 Sample ID: 106869021
 Matrix: Water
 Collect Date: 10-FEB-04 12:00
 Receive Date: 11-FEB-04
 Collector: Client

Project: MKME00104
 Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
LC-MS/MS Perchlorate												
<i>SW846 8321A Modified Perchlorate by LC-MS/MS</i>												
Perchlorate	U	ND		0.050	0.200	ug/L	1	JLW	02/23/04	1705	309517	1
Rad Liquid Scintillation Analysis												
<i>LSC, Tritium Dist, Liquid</i>												
Tritium	U	ND	+/-93.5	159	200	pCi/L		CTO1	02/19/04	0155	310214	2

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8321A Modified	SW846 8321A Perchlorate Extraction in Liquid	JLW	02/12/04	1550	309514

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8321A Modified	
2	EPA 906.0 Modified	

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Project: **BBI**

Page 2 of 2

Client Sample ID: NBC-2
Sample ID: 106869021

Project: MKME00104
Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
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Project: **BBI**

Report Date: March 3, 2004

Page 1 of 2

Client Sample ID: AG-01
Sample ID: 106869022
Matrix: Vegetation
Collect Date: 10-FEB-04 12:00
Receive Date: 11-FEB-04
Collector: Client

Project: MKME00104
Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Semi-Volatiles-PCB												
<i>8082/3550B PCB in Soil</i>												
Aroclor-1016	U	ND		3.00	10.0	ug/kg	1	JSP	02/17/04	1557	309330	1
Aroclor-1221	U	ND		8.46	10.0	ug/kg	1					
Aroclor-1232	U	ND		5.00	10.0	ug/kg	1					
Aroclor-1242	U	ND		5.00	10.0	ug/kg	1					
Aroclor-1248	U	ND		3.00	10.0	ug/kg	1					
Aroclor-1254	U	ND		1.50	10.0	ug/kg	1					
Aroclor-1260	U	ND		3.00	10.0	ug/kg	1					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3550B	3550B PCB Prep Soil	KXV1	02/16/04	1100	309329

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8082	

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
4cmx	8082/3550B PCB in Soil	69	(51%-114%)
Decachlorobiphenyl	8082/3550B PCB in Soil	68	(51%-121%)

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Project: **BBI**

Page 2 of 2

Client Sample ID: AG-01
Sample ID: 106869022

Project: MKME00104
Client ID: MKME001

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
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