



## LABORATORY REPORT

Prepared For: Project Navigator  
 One Pointe Drive, Suite 320  
 Brea, CA 92821  
 Attention: David Tietje

Project: Ascon  
 Ascon Landfill Site

Sampled: 12/14/04  
 Received: 12/14/04  
 Issued: 12/27/04 10:31

NELAP #01108CA CA ELAP #1197 CSDLAC #10117

*The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of Del Mar Analytical and its client. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical. The Chain of Custody, 1 page, is included and is an integral part of this report.*

*This entire report was reviewed and approved for release.*

## SAMPLE CROSS REFERENCE

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

LABORATORY ID	CLIENT ID	MATRIX
INL0982-01	PNL-L1-TE	Solid
INL0982-02	PNL-L45-TE	Sludge
INL0982-03	PNL-FLA-TE	Sludge
INL0982-04	PNL-TE-TB	Water

Reviewed By:

**Del Mar Analytical, Irvine**  
 Wendy Kirkeeng For Kathleen A. Robb  
 Project Manager

Project Navigator  
 One Pointe Drive, Suite 320  
 Brea, CA 92821  
 Attention: David Tietje

Project ID: Ascon  
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 Report Number: INL0982

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## TOTAL RECOVERABLE PETROLEUM HYDROCARBONS (EPA 418.1)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: INL0982-01 (PNL-L1-TE - Solid)</b>								
Reporting Units: mg/kg								
<b>Total Recoverable Hydrocarbons</b>	EPA 418.1	4L15082	15000	<b>510000</b>	100	12/15/2004	12/15/2004	
<b>Sample ID: INL0982-02 (PNL-L45-TE - Sludge)</b>								
Reporting Units: mg/kg								
<b>Total Recoverable Hydrocarbons</b>	EPA 418.1	4L21084	3800	<b>85000</b>	50	12/21/2004	12/21/2004	
<b>Sample ID: INL0982-03 (PNL-FLA-TE - Sludge)</b>								
Reporting Units: mg/kg								
<b>Total Recoverable Hydrocarbons</b>	EPA 418.1	4L21084	1500	<b>29000</b>	20	12/21/2004	12/21/2004	

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## VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: INL0982-01 (PNL-L1-TE - Solid)</b>								
<b>Reporting Units: mg/kg</b>								
<b>Benzene</b>	EPA 8260B	4L16022	1.0	<b>1.0</b>	1000	12/16/2004	12/22/2004	
Bromobenzene	EPA 8260B	4L16022	2.5	ND	1000	12/16/2004	12/22/2004	
Bromochloromethane	EPA 8260B	4L16022	2.5	ND	1000	12/16/2004	12/22/2004	
Bromodichloromethane	EPA 8260B	4L16022	1.0	ND	1000	12/16/2004	12/22/2004	
Bromoform	EPA 8260B	4L16022	2.5	ND	1000	12/16/2004	12/22/2004	
Bromomethane	EPA 8260B	4L16022	2.5	ND	1000	12/16/2004	12/22/2004	
n-Butylbenzene	EPA 8260B	4L16022	2.5	ND	1000	12/16/2004	12/22/2004	
sec-Butylbenzene	EPA 8260B	4L16022	2.5	ND	1000	12/16/2004	12/22/2004	
tert-Butylbenzene	EPA 8260B	4L16022	2.5	ND	1000	12/16/2004	12/22/2004	
Carbon tetrachloride	EPA 8260B	4L16022	2.5	ND	1000	12/16/2004	12/22/2004	
Chlorobenzene	EPA 8260B	4L16022	1.0	ND	1000	12/16/2004	12/22/2004	
Chloroethane	EPA 8260B	4L16022	2.5	ND	1000	12/16/2004	12/22/2004	
Chloroform	EPA 8260B	4L16022	1.0	ND	1000	12/16/2004	12/22/2004	
Chloromethane	EPA 8260B	4L16022	2.5	ND	1000	12/16/2004	12/22/2004	
2-Chlorotoluene	EPA 8260B	4L16022	2.5	ND	1000	12/16/2004	12/22/2004	
4-Chlorotoluene	EPA 8260B	4L16022	2.5	ND	1000	12/16/2004	12/22/2004	
Dibromochloromethane	EPA 8260B	4L16022	1.0	ND	1000	12/16/2004	12/22/2004	
1,2-Dibromo-3-chloropropane	EPA 8260B	4L16022	2.5	ND	1000	12/16/2004	12/22/2004	
1,2-Dibromoethane (EDB)	EPA 8260B	4L16022	1.0	ND	1000	12/16/2004	12/22/2004	
Dibromomethane	EPA 8260B	4L16022	1.0	ND	1000	12/16/2004	12/22/2004	
1,2-Dichlorobenzene	EPA 8260B	4L16022	1.0	ND	1000	12/16/2004	12/22/2004	
1,3-Dichlorobenzene	EPA 8260B	4L16022	1.0	ND	1000	12/16/2004	12/22/2004	
1,4-Dichlorobenzene	EPA 8260B	4L16022	1.0	ND	1000	12/16/2004	12/22/2004	
Dichlorodifluoromethane	EPA 8260B	4L16022	2.0	ND	1000	12/16/2004	12/22/2004	
1,1-Dichloroethane	EPA 8260B	4L16022	1.0	ND	1000	12/16/2004	12/22/2004	
1,2-Dichloroethane	EPA 8260B	4L16022	1.0	ND	1000	12/16/2004	12/22/2004	
1,1-Dichloroethene	EPA 8260B	4L16022	2.5	ND	1000	12/16/2004	12/22/2004	
cis-1,2-Dichloroethene	EPA 8260B	4L16022	1.0	ND	1000	12/16/2004	12/22/2004	
trans-1,2-Dichloroethene	EPA 8260B	4L16022	1.0	ND	1000	12/16/2004	12/22/2004	
1,2-Dichloropropane	EPA 8260B	4L16022	1.0	ND	1000	12/16/2004	12/22/2004	
1,3-Dichloropropane	EPA 8260B	4L16022	1.0	ND	1000	12/16/2004	12/22/2004	
2,2-Dichloropropane	EPA 8260B	4L16022	1.0	ND	1000	12/16/2004	12/22/2004	
1,1-Dichloropropene	EPA 8260B	4L16022	1.0	ND	1000	12/16/2004	12/22/2004	
cis-1,3-Dichloropropene	EPA 8260B	4L16022	1.0	ND	1000	12/16/2004	12/22/2004	
trans-1,3-Dichloropropene	EPA 8260B	4L16022	1.0	ND	1000	12/16/2004	12/22/2004	
<b>Ethylbenzene</b>	EPA 8260B	4L16022	1.0	<b>39</b>	1000	12/16/2004	12/22/2004	
Hexachlorobutadiene	EPA 8260B	4L16022	2.5	ND	1000	12/16/2004	12/22/2004	
<b>Isopropylbenzene</b>	EPA 8260B	4L16022	1.0	<b>22</b>	1000	12/16/2004	12/22/2004	
p-Isopropyltoluene	EPA 8260B	4L16022	1.0	ND	1000	12/16/2004	12/22/2004	
Methylene chloride	EPA 8260B	4L16022	10	ND	1000	12/16/2004	12/22/2004	
<b>Naphthalene</b>	EPA 8260B	4L16022	2.5	<b>6.9</b>	1000	12/16/2004	12/22/2004	

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## VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: INL0982-01 (PNL-L1-TE - Solid) - cont.</b>								
<b>Reporting Units: mg/kg</b>								
n-Propylbenzene	EPA 8260B	4L16022	1.0	ND	1000	12/16/2004	12/22/2004	
<b>Styrene</b>	EPA 8260B	4L16022	1.0	<b>17</b>	1000	12/16/2004	12/22/2004	
1,1,1,2-Tetrachloroethane	EPA 8260B	4L16022	2.5	ND	1000	12/16/2004	12/22/2004	
1,1,2,2-Tetrachloroethane	EPA 8260B	4L16022	1.0	ND	1000	12/16/2004	12/22/2004	
Tetrachloroethene	EPA 8260B	4L16022	1.0	ND	1000	12/16/2004	12/22/2004	
<b>Toluene</b>	EPA 8260B	4L16022	1.0	<b>150</b>	1000	12/16/2004	12/22/2004	
1,2,3-Trichlorobenzene	EPA 8260B	4L16022	2.5	ND	1000	12/16/2004	12/22/2004	
1,2,4-Trichlorobenzene	EPA 8260B	4L16022	2.5	ND	1000	12/16/2004	12/22/2004	
1,1,1-Trichloroethane	EPA 8260B	4L16022	1.0	ND	1000	12/16/2004	12/22/2004	
1,1,2-Trichloroethane	EPA 8260B	4L16022	1.0	ND	1000	12/16/2004	12/22/2004	
Trichloroethene	EPA 8260B	4L16022	1.0	ND	1000	12/16/2004	12/22/2004	
Trichlorofluoromethane	EPA 8260B	4L16022	2.5	ND	1000	12/16/2004	12/22/2004	
1,2,3-Trichloropropane	EPA 8260B	4L16022	5.0	ND	1000	12/16/2004	12/22/2004	
<b>1,2,4-Trimethylbenzene</b>	EPA 8260B	4L16022	1.0	<b>7.1</b>	1000	12/16/2004	12/22/2004	
<b>1,3,5-Trimethylbenzene</b>	EPA 8260B	4L16022	1.0	<b>1.3</b>	1000	12/16/2004	12/22/2004	
Vinyl chloride	EPA 8260B	4L16022	2.5	ND	1000	12/16/2004	12/22/2004	
<b>o-Xylene</b>	EPA 8260B	4L16022	1.0	<b>12</b>	1000	12/16/2004	12/22/2004	
<b>m,p-Xylenes</b>	EPA 8260B	4L16022	1.0	<b>16</b>	1000	12/16/2004	12/22/2004	
<i>Surrogate: Dibromofluoromethane (55-155%)</i>				<i>140 %</i>				<i>Z3</i>
<i>Surrogate: Toluene-d8 (60-160%)</i>				<i>119 %</i>				<i>Z3</i>
<i>Surrogate: 4-Bromofluorobenzene (60-155%)</i>				<i>263 %</i>				<i>Z3</i>

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## VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: INL0982-02 (PNL-L45-TE - Sludge)</b>								
<b>Reporting Units: mg/kg</b>								
Benzene	EPA 8260B	4L16022	0.20	ND	200	12/16/2004	12/21/2004	
Bromobenzene	EPA 8260B	4L16022	0.50	ND	200	12/16/2004	12/21/2004	
Bromochloromethane	EPA 8260B	4L16022	0.50	ND	200	12/16/2004	12/21/2004	
Bromodichloromethane	EPA 8260B	4L16022	0.20	ND	200	12/16/2004	12/21/2004	
Bromoform	EPA 8260B	4L16022	0.50	ND	200	12/16/2004	12/21/2004	
Bromomethane	EPA 8260B	4L16022	0.50	ND	200	12/16/2004	12/21/2004	
n-Butylbenzene	EPA 8260B	4L16022	0.50	ND	200	12/16/2004	12/21/2004	
<b>sec-Butylbenzene</b>	EPA 8260B	4L16022	0.50	<b>1.8</b>	200	12/16/2004	12/21/2004	
tert-Butylbenzene	EPA 8260B	4L16022	0.50	ND	200	12/16/2004	12/21/2004	
Carbon tetrachloride	EPA 8260B	4L16022	0.50	ND	200	12/16/2004	12/21/2004	
Chlorobenzene	EPA 8260B	4L16022	0.20	ND	200	12/16/2004	12/21/2004	
Chloroethane	EPA 8260B	4L16022	0.50	ND	200	12/16/2004	12/21/2004	
Chloroform	EPA 8260B	4L16022	0.20	ND	200	12/16/2004	12/21/2004	
Chloromethane	EPA 8260B	4L16022	0.50	ND	200	12/16/2004	12/21/2004	
2-Chlorotoluene	EPA 8260B	4L16022	0.50	ND	200	12/16/2004	12/21/2004	
4-Chlorotoluene	EPA 8260B	4L16022	0.50	ND	200	12/16/2004	12/21/2004	
Dibromochloromethane	EPA 8260B	4L16022	0.20	ND	200	12/16/2004	12/21/2004	
1,2-Dibromo-3-chloropropane	EPA 8260B	4L16022	0.50	ND	200	12/16/2004	12/21/2004	
1,2-Dibromoethane (EDB)	EPA 8260B	4L16022	0.20	ND	200	12/16/2004	12/21/2004	
Dibromomethane	EPA 8260B	4L16022	0.20	ND	200	12/16/2004	12/21/2004	
1,2-Dichlorobenzene	EPA 8260B	4L16022	0.20	ND	200	12/16/2004	12/21/2004	
1,3-Dichlorobenzene	EPA 8260B	4L16022	0.20	ND	200	12/16/2004	12/21/2004	
1,4-Dichlorobenzene	EPA 8260B	4L16022	0.20	ND	200	12/16/2004	12/21/2004	
Dichlorodifluoromethane	EPA 8260B	4L16022	0.40	ND	200	12/16/2004	12/21/2004	
1,1-Dichloroethane	EPA 8260B	4L16022	0.20	ND	200	12/16/2004	12/21/2004	
1,2-Dichloroethane	EPA 8260B	4L16022	0.20	ND	200	12/16/2004	12/21/2004	
1,1-Dichloroethene	EPA 8260B	4L16022	0.50	ND	200	12/16/2004	12/21/2004	
cis-1,2-Dichloroethene	EPA 8260B	4L16022	0.20	ND	200	12/16/2004	12/21/2004	
trans-1,2-Dichloroethene	EPA 8260B	4L16022	0.20	ND	200	12/16/2004	12/21/2004	
1,2-Dichloropropane	EPA 8260B	4L16022	0.20	ND	200	12/16/2004	12/21/2004	
1,3-Dichloropropane	EPA 8260B	4L16022	0.20	ND	200	12/16/2004	12/21/2004	
2,2-Dichloropropane	EPA 8260B	4L16022	0.20	ND	200	12/16/2004	12/21/2004	
1,1-Dichloropropene	EPA 8260B	4L16022	0.20	ND	200	12/16/2004	12/21/2004	
cis-1,3-Dichloropropene	EPA 8260B	4L16022	0.20	ND	200	12/16/2004	12/21/2004	
trans-1,3-Dichloropropene	EPA 8260B	4L16022	0.20	ND	200	12/16/2004	12/21/2004	
<b>Ethylbenzene</b>	EPA 8260B	4L16022	0.20	<b>4.2</b>	200	12/16/2004	12/21/2004	
Hexachlorobutadiene	EPA 8260B	4L16022	0.50	ND	200	12/16/2004	12/21/2004	
<b>Isopropylbenzene</b>	EPA 8260B	4L16022	0.20	<b>6.5</b>	200	12/16/2004	12/21/2004	
<b>p-Isopropyltoluene</b>	EPA 8260B	4L16022	0.20	<b>3.4</b>	200	12/16/2004	12/21/2004	
Methylene chloride	EPA 8260B	4L16022	2.0	ND	200	12/16/2004	12/21/2004	
<b>Naphthalene</b>	EPA 8260B	4L16022	0.50	<b>4.3</b>	200	12/16/2004	12/21/2004	

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## VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: INL0982-02 (PNL-L45-TE - Sludge) - cont.</b>								
<b>Reporting Units: mg/kg</b>								
<b>n-Propylbenzene</b>	EPA 8260B	4L16022	0.20	<b>3.8</b>	200	12/16/2004	12/21/2004	
Styrene	EPA 8260B	4L16022	0.20	ND	200	12/16/2004	12/21/2004	
1,1,1,2-Tetrachloroethane	EPA 8260B	4L16022	0.50	ND	200	12/16/2004	12/21/2004	
1,1,2,2-Tetrachloroethane	EPA 8260B	4L16022	0.20	ND	200	12/16/2004	12/21/2004	
Tetrachloroethene	EPA 8260B	4L16022	0.20	ND	200	12/16/2004	12/21/2004	
Toluene	EPA 8260B	4L16022	0.20	ND	200	12/16/2004	12/21/2004	
1,2,3-Trichlorobenzene	EPA 8260B	4L16022	0.50	ND	200	12/16/2004	12/21/2004	
1,2,4-Trichlorobenzene	EPA 8260B	4L16022	0.50	ND	200	12/16/2004	12/21/2004	
1,1,1-Trichloroethane	EPA 8260B	4L16022	0.20	ND	200	12/16/2004	12/21/2004	
1,1,2-Trichloroethane	EPA 8260B	4L16022	0.20	ND	200	12/16/2004	12/21/2004	
Trichloroethene	EPA 8260B	4L16022	0.20	ND	200	12/16/2004	12/21/2004	
Trichlorofluoromethane	EPA 8260B	4L16022	0.50	ND	200	12/16/2004	12/21/2004	
1,2,3-Trichloropropane	EPA 8260B	4L16022	1.0	ND	200	12/16/2004	12/21/2004	
<b>1,2,4-Trimethylbenzene</b>	EPA 8260B	4L16022	0.20	<b>2.7</b>	200	12/16/2004	12/21/2004	
<b>1,3,5-Trimethylbenzene</b>	EPA 8260B	4L16022	0.20	<b>0.91</b>	200	12/16/2004	12/21/2004	
Vinyl chloride	EPA 8260B	4L16022	0.50	ND	200	12/16/2004	12/21/2004	
<b>o-Xylene</b>	EPA 8260B	4L16022	0.20	<b>0.27</b>	200	12/16/2004	12/21/2004	
<b>m,p-Xylenes</b>	EPA 8260B	4L16022	0.20	<b>0.67</b>	200	12/16/2004	12/21/2004	
<i>Surrogate: Dibromofluoromethane (55-155%)</i>				81 %				
<i>Surrogate: Toluene-d8 (60-160%)</i>				110 %				
<i>Surrogate: 4-Bromofluorobenzene (60-155%)</i>				110 %				

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Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: INL0982-03 (PNL-FLA-TE - Sludge)</b>								
<b>Reporting Units: mg/kg</b>								
Benzene	EPA 8260B	4L16022	0.20	ND	200	12/16/2004	12/21/2004	
Bromobenzene	EPA 8260B	4L16022	0.50	ND	200	12/16/2004	12/21/2004	
Bromochloromethane	EPA 8260B	4L16022	0.50	ND	200	12/16/2004	12/21/2004	
Bromodichloromethane	EPA 8260B	4L16022	0.20	ND	200	12/16/2004	12/21/2004	
Bromoform	EPA 8260B	4L16022	0.50	ND	200	12/16/2004	12/21/2004	
Bromomethane	EPA 8260B	4L16022	0.50	ND	200	12/16/2004	12/21/2004	
n-Butylbenzene	EPA 8260B	4L16022	0.50	ND	200	12/16/2004	12/21/2004	
<b>sec-Butylbenzene</b>	EPA 8260B	4L16022	0.50	<b>1.4</b>	200	12/16/2004	12/21/2004	
tert-Butylbenzene	EPA 8260B	4L16022	0.50	ND	200	12/16/2004	12/21/2004	
Carbon tetrachloride	EPA 8260B	4L16022	0.50	ND	200	12/16/2004	12/21/2004	
Chlorobenzene	EPA 8260B	4L16022	0.20	ND	200	12/16/2004	12/21/2004	
Chloroethane	EPA 8260B	4L16022	0.50	ND	200	12/16/2004	12/21/2004	
Chloroform	EPA 8260B	4L16022	0.20	ND	200	12/16/2004	12/21/2004	
Chloromethane	EPA 8260B	4L16022	0.50	ND	200	12/16/2004	12/21/2004	
2-Chlorotoluene	EPA 8260B	4L16022	0.50	ND	200	12/16/2004	12/21/2004	
4-Chlorotoluene	EPA 8260B	4L16022	0.50	ND	200	12/16/2004	12/21/2004	
Dibromochloromethane	EPA 8260B	4L16022	0.20	ND	200	12/16/2004	12/21/2004	
1,2-Dibromo-3-chloropropane	EPA 8260B	4L16022	0.50	ND	200	12/16/2004	12/21/2004	
1,2-Dibromoethane (EDB)	EPA 8260B	4L16022	0.20	ND	200	12/16/2004	12/21/2004	
Dibromomethane	EPA 8260B	4L16022	0.20	ND	200	12/16/2004	12/21/2004	
1,2-Dichlorobenzene	EPA 8260B	4L16022	0.20	ND	200	12/16/2004	12/21/2004	
1,3-Dichlorobenzene	EPA 8260B	4L16022	0.20	ND	200	12/16/2004	12/21/2004	
1,4-Dichlorobenzene	EPA 8260B	4L16022	0.20	ND	200	12/16/2004	12/21/2004	
Dichlorodifluoromethane	EPA 8260B	4L16022	0.40	ND	200	12/16/2004	12/21/2004	
1,1-Dichloroethane	EPA 8260B	4L16022	0.20	ND	200	12/16/2004	12/21/2004	
1,2-Dichloroethane	EPA 8260B	4L16022	0.20	ND	200	12/16/2004	12/21/2004	
1,1-Dichloroethene	EPA 8260B	4L16022	0.50	ND	200	12/16/2004	12/21/2004	
cis-1,2-Dichloroethene	EPA 8260B	4L16022	0.20	ND	200	12/16/2004	12/21/2004	
trans-1,2-Dichloroethene	EPA 8260B	4L16022	0.20	ND	200	12/16/2004	12/21/2004	
1,2-Dichloropropane	EPA 8260B	4L16022	0.20	ND	200	12/16/2004	12/21/2004	
1,3-Dichloropropane	EPA 8260B	4L16022	0.20	ND	200	12/16/2004	12/21/2004	
2,2-Dichloropropane	EPA 8260B	4L16022	0.20	ND	200	12/16/2004	12/21/2004	
1,1-Dichloropropene	EPA 8260B	4L16022	0.20	ND	200	12/16/2004	12/21/2004	
cis-1,3-Dichloropropene	EPA 8260B	4L16022	0.20	ND	200	12/16/2004	12/21/2004	
trans-1,3-Dichloropropene	EPA 8260B	4L16022	0.20	ND	200	12/16/2004	12/21/2004	
<b>Ethylbenzene</b>	EPA 8260B	4L16022	0.20	<b>2.5</b>	200	12/16/2004	12/21/2004	
Hexachlorobutadiene	EPA 8260B	4L16022	0.50	ND	200	12/16/2004	12/21/2004	
<b>Isopropylbenzene</b>	EPA 8260B	4L16022	0.20	<b>2.4</b>	200	12/16/2004	12/21/2004	
<b>p-Isopropyltoluene</b>	EPA 8260B	4L16022	0.20	<b>1.8</b>	200	12/16/2004	12/21/2004	
Methylene chloride	EPA 8260B	4L16022	2.0	ND	200	12/16/2004	12/21/2004	
<b>Naphthalene</b>	EPA 8260B	4L16022	0.50	<b>3.4</b>	200	12/16/2004	12/21/2004	

**Del Mar Analytical, Irvine**  
 Wendy Kirkeeng For Kathleen A. Robb  
 Project Manager

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 Attention: David Tietje

Project ID: Ascon  
 Ascon Landfill Site  
 Report Number: INL0982

Sampled: 12/14/04  
 Received: 12/14/04

## VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: INL0982-03 (PNL-FLA-TE - Sludge) - cont.</b>								
<b>Reporting Units: mg/kg</b>								
<b>n-Propylbenzene</b>	EPA 8260B	4L16022	0.20	<b>2.7</b>	200	12/16/2004	12/21/2004	
Styrene	EPA 8260B	4L16022	0.20	ND	200	12/16/2004	12/21/2004	
1,1,1,2-Tetrachloroethane	EPA 8260B	4L16022	0.50	ND	200	12/16/2004	12/21/2004	
1,1,2,2-Tetrachloroethane	EPA 8260B	4L16022	0.20	ND	200	12/16/2004	12/21/2004	
Tetrachloroethene	EPA 8260B	4L16022	0.20	ND	200	12/16/2004	12/21/2004	
Toluene	EPA 8260B	4L16022	0.20	ND	200	12/16/2004	12/21/2004	
1,2,3-Trichlorobenzene	EPA 8260B	4L16022	0.50	ND	200	12/16/2004	12/21/2004	
1,2,4-Trichlorobenzene	EPA 8260B	4L16022	0.50	ND	200	12/16/2004	12/21/2004	
1,1,1-Trichloroethane	EPA 8260B	4L16022	0.20	ND	200	12/16/2004	12/21/2004	
1,1,2-Trichloroethane	EPA 8260B	4L16022	0.20	ND	200	12/16/2004	12/21/2004	
Trichloroethene	EPA 8260B	4L16022	0.20	ND	200	12/16/2004	12/21/2004	
Trichlorofluoromethane	EPA 8260B	4L16022	0.50	ND	200	12/16/2004	12/21/2004	
1,2,3-Trichloropropane	EPA 8260B	4L16022	1.0	ND	200	12/16/2004	12/21/2004	
<b>1,2,4-Trimethylbenzene</b>	EPA 8260B	4L16022	0.20	<b>3.6</b>	200	12/16/2004	12/21/2004	
<b>1,3,5-Trimethylbenzene</b>	EPA 8260B	4L16022	0.20	<b>1.0</b>	200	12/16/2004	12/21/2004	
Vinyl chloride	EPA 8260B	4L16022	0.50	ND	200	12/16/2004	12/21/2004	
o-Xylene	EPA 8260B	4L16022	0.20	ND	200	12/16/2004	12/21/2004	
<b>m,p-Xylenes</b>	EPA 8260B	4L16022	0.20	<b>0.70</b>	200	12/16/2004	12/21/2004	
<i>Surrogate: Dibromofluoromethane (55-155%)</i>				79 %				
<i>Surrogate: Toluene-d8 (60-160%)</i>				104 %				
<i>Surrogate: 4-Bromofluorobenzene (60-155%)</i>				98 %				

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## VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: INL0982-04 (PNL-TE-TB - Water)</b>								
<b>Reporting Units: ug/l</b>								
Benzene	EPA 8260B	4L22032	2.0	ND	1	12/22/2004	12/22/2004	
Bromobenzene	EPA 8260B	4L22032	5.0	ND	1	12/22/2004	12/22/2004	
Bromochloromethane	EPA 8260B	4L22032	5.0	ND	1	12/22/2004	12/22/2004	
Bromodichloromethane	EPA 8260B	4L22032	2.0	ND	1	12/22/2004	12/22/2004	
Bromoform	EPA 8260B	4L22032	5.0	ND	1	12/22/2004	12/22/2004	
Bromomethane	EPA 8260B	4L22032	5.0	ND	1	12/22/2004	12/22/2004	
n-Butylbenzene	EPA 8260B	4L22032	5.0	ND	1	12/22/2004	12/22/2004	
sec-Butylbenzene	EPA 8260B	4L22032	5.0	ND	1	12/22/2004	12/22/2004	
tert-Butylbenzene	EPA 8260B	4L22032	5.0	ND	1	12/22/2004	12/22/2004	
Carbon tetrachloride	EPA 8260B	4L22032	5.0	ND	1	12/22/2004	12/22/2004	
Chlorobenzene	EPA 8260B	4L22032	2.0	ND	1	12/22/2004	12/22/2004	
Chloroethane	EPA 8260B	4L22032	5.0	ND	1	12/22/2004	12/22/2004	
Chloroform	EPA 8260B	4L22032	2.0	ND	1	12/22/2004	12/22/2004	
Chloromethane	EPA 8260B	4L22032	5.0	ND	1	12/22/2004	12/22/2004	
2-Chlorotoluene	EPA 8260B	4L22032	5.0	ND	1	12/22/2004	12/22/2004	
4-Chlorotoluene	EPA 8260B	4L22032	5.0	ND	1	12/22/2004	12/22/2004	
Dibromochloromethane	EPA 8260B	4L22032	2.0	ND	1	12/22/2004	12/22/2004	
1,2-Dibromo-3-chloropropane	EPA 8260B	4L22032	5.0	ND	1	12/22/2004	12/22/2004	
1,2-Dibromoethane (EDB)	EPA 8260B	4L22032	2.0	ND	1	12/22/2004	12/22/2004	
Dibromomethane	EPA 8260B	4L22032	2.0	ND	1	12/22/2004	12/22/2004	
1,2-Dichlorobenzene	EPA 8260B	4L22032	2.0	ND	1	12/22/2004	12/22/2004	
1,3-Dichlorobenzene	EPA 8260B	4L22032	2.0	ND	1	12/22/2004	12/22/2004	
1,4-Dichlorobenzene	EPA 8260B	4L22032	2.0	ND	1	12/22/2004	12/22/2004	
Dichlorodifluoromethane	EPA 8260B	4L22032	5.0	ND	1	12/22/2004	12/22/2004	
1,1-Dichloroethane	EPA 8260B	4L22032	2.0	ND	1	12/22/2004	12/22/2004	
1,2-Dichloroethane	EPA 8260B	4L22032	2.0	ND	1	12/22/2004	12/22/2004	
1,1-Dichloroethene	EPA 8260B	4L22032	5.0	ND	1	12/22/2004	12/22/2004	
cis-1,2-Dichloroethene	EPA 8260B	4L22032	2.0	ND	1	12/22/2004	12/22/2004	
trans-1,2-Dichloroethene	EPA 8260B	4L22032	2.0	ND	1	12/22/2004	12/22/2004	
1,2-Dichloropropane	EPA 8260B	4L22032	2.0	ND	1	12/22/2004	12/22/2004	
1,3-Dichloropropane	EPA 8260B	4L22032	2.0	ND	1	12/22/2004	12/22/2004	
2,2-Dichloropropane	EPA 8260B	4L22032	2.0	ND	1	12/22/2004	12/22/2004	
1,1-Dichloropropene	EPA 8260B	4L22032	2.0	ND	1	12/22/2004	12/22/2004	
cis-1,3-Dichloropropene	EPA 8260B	4L22032	2.0	ND	1	12/22/2004	12/22/2004	
trans-1,3-Dichloropropene	EPA 8260B	4L22032	2.0	ND	1	12/22/2004	12/22/2004	
Ethylbenzene	EPA 8260B	4L22032	2.0	ND	1	12/22/2004	12/22/2004	
Hexachlorobutadiene	EPA 8260B	4L22032	5.0	ND	1	12/22/2004	12/22/2004	
Isopropylbenzene	EPA 8260B	4L22032	2.0	ND	1	12/22/2004	12/22/2004	
p-Isopropyltoluene	EPA 8260B	4L22032	2.0	ND	1	12/22/2004	12/22/2004	
Methylene chloride	EPA 8260B	4L22032	5.0	ND	1	12/22/2004	12/22/2004	
Naphthalene	EPA 8260B	4L22032	5.0	ND	1	12/22/2004	12/22/2004	

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 Ascon Landfill Site  
 Report Number: INL0982

Sampled: 12/14/04  
 Received: 12/14/04

## VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: INL0982-04 (PNL-TE-TB - Water) - cont.</b>								
<b>Reporting Units: ug/l</b>								
n-Propylbenzene	EPA 8260B	4L22032	2.0	ND	1	12/22/2004	12/22/2004	
Styrene	EPA 8260B	4L22032	2.0	ND	1	12/22/2004	12/22/2004	
1,1,1,2-Tetrachloroethane	EPA 8260B	4L22032	5.0	ND	1	12/22/2004	12/22/2004	
1,1,2,2-Tetrachloroethane	EPA 8260B	4L22032	2.0	ND	1	12/22/2004	12/22/2004	
Tetrachloroethene	EPA 8260B	4L22032	2.0	ND	1	12/22/2004	12/22/2004	
Toluene	EPA 8260B	4L22032	2.0	ND	1	12/22/2004	12/22/2004	
1,2,3-Trichlorobenzene	EPA 8260B	4L22032	5.0	ND	1	12/22/2004	12/22/2004	
1,2,4-Trichlorobenzene	EPA 8260B	4L22032	5.0	ND	1	12/22/2004	12/22/2004	
1,1,1-Trichloroethane	EPA 8260B	4L22032	2.0	ND	1	12/22/2004	12/22/2004	
1,1,2-Trichloroethane	EPA 8260B	4L22032	2.0	ND	1	12/22/2004	12/22/2004	
Trichloroethene	EPA 8260B	4L22032	2.0	ND	1	12/22/2004	12/22/2004	
Trichlorofluoromethane	EPA 8260B	4L22032	5.0	ND	1	12/22/2004	12/22/2004	
1,2,3-Trichloropropane	EPA 8260B	4L22032	10	ND	1	12/22/2004	12/22/2004	
1,2,4-Trimethylbenzene	EPA 8260B	4L22032	2.0	ND	1	12/22/2004	12/22/2004	
1,3,5-Trimethylbenzene	EPA 8260B	4L22032	2.0	ND	1	12/22/2004	12/22/2004	
Vinyl chloride	EPA 8260B	4L22032	5.0	ND	1	12/22/2004	12/22/2004	
o-Xylene	EPA 8260B	4L22032	2.0	ND	1	12/22/2004	12/22/2004	
m,p-Xylenes	EPA 8260B	4L22032	2.0	ND	1	12/22/2004	12/22/2004	
<i>Surrogate: Dibromofluoromethane (80-120%)</i>				104 %				
<i>Surrogate: Toluene-d8 (80-120%)</i>				102 %				
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>				97 %				

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Project ID: Ascon  
 Ascon Landfill Site  
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Sampled: 12/14/04  
 Received: 12/14/04

## METHOD BLANK/QC DATA

### TOTAL RECOVERABLE PETROLEUM HYDROCARBONS (EPA 418.1)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 4L15082 Extracted: 12/15/04</b>										
<b>Blank Analyzed: 12/15/2004 (4L15082-BLK1)</b>										
Total Recoverable Hydrocarbons	ND	5.0	mg/kg							
<b>LCS Analyzed: 12/15/2004 (4L15082-BS1)</b>										
Total Recoverable Hydrocarbons	18.3	5.0	mg/kg	20.0		92	55-130			
<b>Matrix Spike Analyzed: 12/15/2004 (4L15082-MS1)</b>										
					<b>Source: INL0838-01</b>					
Total Recoverable Hydrocarbons	193000	3000	mg/kg	120	220000	-22500	35-130			M-HA
<b>Matrix Spike Dup Analyzed: 12/15/2004 (4L15082-MSD1)</b>										
					<b>Source: INL0838-01</b>					
Total Recoverable Hydrocarbons	192000	3000	mg/kg	120	220000	-23300	35-130	1	25	M-HA
<b>Batch: 4L21084 Extracted: 12/21/04</b>										
<b>Blank Analyzed: 12/21/2004 (4L21084-BLK1)</b>										
Total Recoverable Hydrocarbons	ND	5.0	mg/kg							
<b>LCS Analyzed: 12/21/2004 (4L21084-BS1)</b>										
Total Recoverable Hydrocarbons	17.8	5.0	mg/kg	20.0		89	55-130			
<b>Matrix Spike Analyzed: 12/21/2004 (4L21084-MS1)</b>										
					<b>Source: INL1171-01</b>					
Total Recoverable Hydrocarbons	592	5.0	mg/kg	20.0	680	-440	35-130			M2
<b>Matrix Spike Dup Analyzed: 12/21/2004 (4L21084-MSD1)</b>										
					<b>Source: INL1171-01</b>					
Total Recoverable Hydrocarbons	563	5.0	mg/kg	20.0	680	-585	35-130	5	25	M2

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## METHOD BLANK/QC DATA

### VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits RPD	RPD Limit	Data Qualifiers
<b>Batch: 4L16022 Extracted: 12/16/04</b>									
<b>Blank Analyzed: 12/17/2004 (4L16022-BLK1)</b>									
Benzene	ND	0.10	mg/kg						
Bromobenzene	ND	0.25	mg/kg						
Bromochloromethane	ND	0.25	mg/kg						
Bromodichloromethane	ND	0.10	mg/kg						
Bromoform	ND	0.25	mg/kg						
Bromomethane	ND	0.25	mg/kg						
n-Butylbenzene	ND	0.25	mg/kg						
sec-Butylbenzene	ND	0.25	mg/kg						
tert-Butylbenzene	ND	0.25	mg/kg						
Carbon tetrachloride	ND	0.25	mg/kg						
Chlorobenzene	ND	0.10	mg/kg						
Chloroethane	ND	0.25	mg/kg						
Chloroform	ND	0.10	mg/kg						
Chloromethane	ND	0.25	mg/kg						
2-Chlorotoluene	ND	0.25	mg/kg						
4-Chlorotoluene	ND	0.25	mg/kg						
Dibromochloromethane	ND	0.10	mg/kg						
1,2-Dibromo-3-chloropropane	ND	0.25	mg/kg						
1,2-Dibromoethane (EDB)	ND	0.10	mg/kg						
Dibromomethane	ND	0.10	mg/kg						
1,2-Dichlorobenzene	ND	0.10	mg/kg						
1,3-Dichlorobenzene	ND	0.10	mg/kg						
1,4-Dichlorobenzene	ND	0.10	mg/kg						
Dichlorodifluoromethane	ND	0.20	mg/kg						
1,1-Dichloroethane	ND	0.10	mg/kg						
1,2-Dichloroethane	ND	0.10	mg/kg						
1,1-Dichloroethene	ND	0.25	mg/kg						
cis-1,2-Dichloroethene	ND	0.10	mg/kg						
trans-1,2-Dichloroethene	ND	0.10	mg/kg						
1,2-Dichloropropane	ND	0.10	mg/kg						
1,3-Dichloropropane	ND	0.10	mg/kg						
2,2-Dichloropropane	ND	0.10	mg/kg						
1,1-Dichloropropene	ND	0.10	mg/kg						
cis-1,3-Dichloropropene	ND	0.10	mg/kg						
trans-1,3-Dichloropropene	ND	0.10	mg/kg						

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## METHOD BLANK/QC DATA

### VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 4L16022 Extracted: 12/16/04</b>										
<b>Blank Analyzed: 12/17/2004 (4L16022-BLK1)</b>										
Ethylbenzene	ND	0.10	mg/kg							
Hexachlorobutadiene	ND	0.25	mg/kg							
Isopropylbenzene	ND	0.10	mg/kg							
p-Isopropyltoluene	ND	0.10	mg/kg							
Methylene chloride	ND	1.0	mg/kg							
Naphthalene	ND	0.25	mg/kg							
n-Propylbenzene	ND	0.10	mg/kg							
Styrene	ND	0.10	mg/kg							
1,1,1,2-Tetrachloroethane	ND	0.25	mg/kg							
1,1,2,2-Tetrachloroethane	ND	0.10	mg/kg							
Tetrachloroethene	ND	0.10	mg/kg							
Toluene	ND	0.10	mg/kg							
1,2,3-Trichlorobenzene	ND	0.25	mg/kg							
1,2,4-Trichlorobenzene	ND	0.25	mg/kg							
1,1,1-Trichloroethane	ND	0.10	mg/kg							
1,1,2-Trichloroethane	ND	0.10	mg/kg							
Trichloroethene	ND	0.10	mg/kg							
Trichlorofluoromethane	ND	0.25	mg/kg							
1,2,3-Trichloropropane	ND	0.50	mg/kg							
1,2,4-Trimethylbenzene	ND	0.10	mg/kg							
1,3,5-Trimethylbenzene	ND	0.10	mg/kg							
Vinyl chloride	ND	0.25	mg/kg							
o-Xylene	ND	0.10	mg/kg							
m,p-Xylenes	ND	0.10	mg/kg							
Surrogate: Dibromofluoromethane	2.97		mg/kg	2.50		119	55-155			
Surrogate: Toluene-d8	2.96		mg/kg	2.50		118	60-160			
Surrogate: 4-Bromofluorobenzene	2.83		mg/kg	2.50		113	60-155			

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## METHOD BLANK/QC DATA

### VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	RPD Limit	Data Qualifiers
<b>Batch: 4L16022 Extracted: 12/16/04</b>										
<b>LCS Analyzed: 12/17/2004 (4L16022-BS1)</b>										
Benzene	2.80	0.10	mg/kg	2.50		112	75-120			
Bromobenzene	2.72	0.25	mg/kg	2.50		109	80-120			
Bromochloromethane	3.23	0.25	mg/kg	2.50		129	65-135			
Bromodichloromethane	2.95	0.10	mg/kg	2.50		118	70-140			
Bromoform	2.46	0.25	mg/kg	2.50		98	60-130			
Bromomethane	2.28	0.25	mg/kg	2.50		91	30-140			
n-Butylbenzene	2.59	0.25	mg/kg	2.50		104	80-130			
sec-Butylbenzene	2.67	0.25	mg/kg	2.50		107	75-125			
tert-Butylbenzene	2.57	0.25	mg/kg	2.50		103	80-125			
Carbon tetrachloride	3.14	0.25	mg/kg	2.50		126	70-140			
Chlorobenzene	2.67	0.10	mg/kg	2.50		107	80-125			
Chloroethane	2.36	0.25	mg/kg	2.50		94	35-145			
Chloroform	2.90	0.10	mg/kg	2.50		116	75-125			
Chloromethane	2.98	0.25	mg/kg	2.50		119	30-145			
2-Chlorotoluene	2.50	0.25	mg/kg	2.50		100	75-125			
4-Chlorotoluene	2.53	0.25	mg/kg	2.50		101	80-125			
Dibromochloromethane	2.59	0.10	mg/kg	2.50		104	65-145			
1,2-Dibromo-3-chloropropane	1.98	0.25	mg/kg	2.50		79	45-135			
1,2-Dibromoethane (EDB)	2.92	0.10	mg/kg	2.50		117	75-130			
Dibromomethane	2.72	0.10	mg/kg	2.50		109	75-135			
1,2-Dichlorobenzene	2.66	0.10	mg/kg	2.50		106	80-120			
1,3-Dichlorobenzene	2.60	0.10	mg/kg	2.50		104	80-120			
1,4-Dichlorobenzene	2.61	0.10	mg/kg	2.50		104	80-120			
Dichlorodifluoromethane	2.16	0.20	mg/kg	2.50		86	10-160			
1,1-Dichloroethane	2.87	0.10	mg/kg	2.50		115	70-135			
1,2-Dichloroethane	2.87	0.10	mg/kg	2.50		115	60-150			
1,1-Dichloroethene	2.99	0.25	mg/kg	2.50		120	80-140			
cis-1,2-Dichloroethene	2.98	0.10	mg/kg	2.50		119	70-130			
trans-1,2-Dichloroethene	3.12	0.10	mg/kg	2.50		125	70-130			
1,2-Dichloropropane	2.84	0.10	mg/kg	2.50		114	75-125			
1,3-Dichloropropane	2.74	0.10	mg/kg	2.50		110	75-130			
2,2-Dichloropropane	2.80	0.10	mg/kg	2.50		112	65-150			
1,1-Dichloropropene	2.82	0.10	mg/kg	2.50		113	75-130			
cis-1,3-Dichloropropene	2.96	0.10	mg/kg	2.50		118	75-130			
trans-1,3-Dichloropropene	2.64	0.10	mg/kg	2.50		106	75-135			

**Del Mar Analytical, Irvine**  
 Wendy Kirkeeng For Kathleen A. Robb  
 Project Manager



Project Navigator  
 One Pointe Drive, Suite 320  
 Brea, CA 92821  
 Attention: David Tietje

Project ID: Ascon  
 Ascon Landfill Site  
 Report Number: INL0982

Sampled: 12/14/04  
 Received: 12/14/04

## METHOD BLANK/QC DATA

### VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD RPD	RPD Limit	Data Qualifiers
<b>Batch: 4L16022 Extracted: 12/16/04</b>									
<b>LCS Analyzed: 12/17/2004 (4L16022-BS1)</b>									
Ethylbenzene	2.72	0.10	mg/kg	2.50		109		80-120	
Hexachlorobutadiene	2.30	0.25	mg/kg	2.50		92		75-140	
Isopropylbenzene	2.66	0.10	mg/kg	2.50		106		75-125	
p-Isopropyltoluene	2.56	0.10	mg/kg	2.50		102		80-125	
Methylene chloride	3.09	1.0	mg/kg	2.50		124		60-145	
Naphthalene	2.40	0.25	mg/kg	2.50		96		50-145	
n-Propylbenzene	2.58	0.10	mg/kg	2.50		103		75-130	
Styrene	3.06	0.10	mg/kg	2.50		122		80-135	
1,1,1,2-Tetrachloroethane	2.94	0.25	mg/kg	2.50		118		70-145	
1,1,2,2-Tetrachloroethane	2.56	0.10	mg/kg	2.50		102		55-135	
Tetrachloroethene	2.56	0.10	mg/kg	2.50		102		80-125	
Toluene	2.81	0.10	mg/kg	2.50		112		80-120	
1,2,3-Trichlorobenzene	2.51	0.25	mg/kg	2.50		100		65-135	
1,2,4-Trichlorobenzene	2.58	0.25	mg/kg	2.50		103		70-140	
1,1,1-Trichloroethane	2.86	0.10	mg/kg	2.50		114		75-140	
1,1,2-Trichloroethane	2.92	0.10	mg/kg	2.50		117		70-130	
Trichloroethene	3.05	0.10	mg/kg	2.50		122		80-130	
Trichlorofluoromethane	3.00	0.25	mg/kg	2.50		120		55-145	
1,2,3-Trichloropropane	2.44	0.50	mg/kg	2.50		98		60-130	
1,2,4-Trimethylbenzene	2.66	0.10	mg/kg	2.50		106		80-125	
1,3,5-Trimethylbenzene	2.70	0.10	mg/kg	2.50		108		80-125	
Vinyl chloride	0.990	0.25	mg/kg	2.50		40		10-120	
o-Xylene	2.79	0.10	mg/kg	2.50		112		80-125	
m,p-Xylenes	5.68	0.10	mg/kg	5.00		114		80-120	
Surrogate: Dibromofluoromethane	5.02		mg/kg	5.00		100		55-155	
Surrogate: Toluene-d8	4.92		mg/kg	5.00		98		60-160	
Surrogate: 4-Bromofluorobenzene	4.98		mg/kg	5.00		100		60-155	

**Del Mar Analytical, Irvine**  
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## METHOD BLANK/QC DATA

### VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 4L16022 Extracted: 12/16/04</b>										
<b>LCS Dup Analyzed: 12/17/2004 (4L16022-BSD1)</b>										
Benzene	2.81	0.10	mg/kg	2.50		112	75-120	0	20	
Bromobenzene	2.70	0.25	mg/kg	2.50		108	80-120	1	20	
Bromochloromethane	3.19	0.25	mg/kg	2.50		128	65-135	1	20	
Bromodichloromethane	2.93	0.10	mg/kg	2.50		117	70-140	1	20	
Bromoform	2.31	0.25	mg/kg	2.50		92	60-130	6	25	
Bromomethane	2.39	0.25	mg/kg	2.50		96	30-140	5	30	
n-Butylbenzene	2.60	0.25	mg/kg	2.50		104	80-130	0	20	
sec-Butylbenzene	2.66	0.25	mg/kg	2.50		106	75-125	0	20	
tert-Butylbenzene	2.61	0.25	mg/kg	2.50		104	80-125	2	20	
Carbon tetrachloride	3.19	0.25	mg/kg	2.50		128	70-140	2	20	
Chlorobenzene	2.65	0.10	mg/kg	2.50		106	80-125	1	20	
Chloroethane	2.47	0.25	mg/kg	2.50		99	35-145	5	25	
Chloroform	2.88	0.10	mg/kg	2.50		115	75-125	1	20	
Chloromethane	3.01	0.25	mg/kg	2.50		120	30-145	1	25	
2-Chlorotoluene	2.50	0.25	mg/kg	2.50		100	75-125	0	20	
4-Chlorotoluene	2.55	0.25	mg/kg	2.50		102	80-125	1	20	
Dibromochloromethane	2.51	0.10	mg/kg	2.50		100	65-145	3	20	
1,2-Dibromo-3-chloropropane	1.85	0.25	mg/kg	2.50		74	45-135	7	25	
1,2-Dibromoethane (EDB)	2.79	0.10	mg/kg	2.50		112	75-130	5	20	
Dibromomethane	2.65	0.10	mg/kg	2.50		106	75-135	3	20	
1,2-Dichlorobenzene	2.65	0.10	mg/kg	2.50		106	80-120	0	20	
1,3-Dichlorobenzene	2.60	0.10	mg/kg	2.50		104	80-120	0	20	
1,4-Dichlorobenzene	2.61	0.10	mg/kg	2.50		104	80-120	0	20	
Dichlorodifluoromethane	2.22	0.20	mg/kg	2.50		89	10-160	3	30	
1,1-Dichloroethane	2.87	0.10	mg/kg	2.50		115	70-135	0	20	
1,2-Dichloroethane	2.86	0.10	mg/kg	2.50		114	60-150	0	20	
1,1-Dichloroethene	2.98	0.25	mg/kg	2.50		119	80-140	0	20	
cis-1,2-Dichloroethene	2.96	0.10	mg/kg	2.50		118	70-130	1	20	
trans-1,2-Dichloroethene	3.13	0.10	mg/kg	2.50		125	70-130	0	20	
1,2-Dichloropropane	2.85	0.10	mg/kg	2.50		114	75-125	0	20	
1,3-Dichloropropane	2.61	0.10	mg/kg	2.50		104	75-130	5	20	
2,2-Dichloropropane	2.81	0.10	mg/kg	2.50		112	65-150	0	25	
1,1-Dichloropropene	2.85	0.10	mg/kg	2.50		114	75-130	1	20	
cis-1,3-Dichloropropene	2.93	0.10	mg/kg	2.50		117	75-130	1	20	
trans-1,3-Dichloropropene	2.58	0.10	mg/kg	2.50		103	75-135	2	20	

**Del Mar Analytical, Irvine**  
 Wendy Kirkeeng For Kathleen A. Robb  
 Project Manager



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 One Pointe Drive, Suite 320  
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 Attention: David Tietje

Project ID: Ascon  
 Ascon Landfill Site  
 Report Number: INL0982

Sampled: 12/14/04  
 Received: 12/14/04

## METHOD BLANK/QC DATA

### VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 4L16022 Extracted: 12/16/04</b>										
<b>LCS Dup Analyzed: 12/17/2004 (4L16022-BSD1)</b>										
Ethylbenzene	2.72	0.10	mg/kg	2.50		109	80-120	0	20	
Hexachlorobutadiene	2.29	0.25	mg/kg	2.50		92	75-140	0	20	
Isopropylbenzene	2.70	0.10	mg/kg	2.50		108	75-125	1	20	
p-Isopropyltoluene	2.58	0.10	mg/kg	2.50		103	80-125	1	20	
Methylene chloride	3.07	1.0	mg/kg	2.50		123	60-145	1	20	
Naphthalene	2.32	0.25	mg/kg	2.50		93	50-145	3	25	
n-Propylbenzene	2.61	0.10	mg/kg	2.50		104	75-130	1	20	
Styrene	3.01	0.10	mg/kg	2.50		120	80-135	2	20	
1,1,1,2-Tetrachloroethane	2.92	0.25	mg/kg	2.50		117	70-145	1	20	
1,1,2,2-Tetrachloroethane	2.40	0.10	mg/kg	2.50		96	55-135	6	25	
Tetrachloroethene	2.62	0.10	mg/kg	2.50		105	80-125	2	20	
Toluene	2.84	0.10	mg/kg	2.50		114	80-120	1	20	
1,2,3-Trichlorobenzene	2.47	0.25	mg/kg	2.50		99	65-135	2	20	
1,2,4-Trichlorobenzene	2.56	0.25	mg/kg	2.50		102	70-140	1	20	
1,1,1-Trichloroethane	2.87	0.10	mg/kg	2.50		115	75-140	0	20	
1,1,2-Trichloroethane	2.79	0.10	mg/kg	2.50		112	70-130	5	20	
Trichloroethene	3.09	0.10	mg/kg	2.50		124	80-130	1	20	
Trichlorofluoromethane	3.00	0.25	mg/kg	2.50		120	55-145	0	25	
1,2,3-Trichloropropane	2.31	0.50	mg/kg	2.50		92	60-130	5	25	
1,2,4-Trimethylbenzene	2.66	0.10	mg/kg	2.50		106	80-125	0	20	
1,3,5-Trimethylbenzene	2.71	0.10	mg/kg	2.50		108	80-125	0	20	
Vinyl chloride	0.977	0.25	mg/kg	2.50		39	10-120	1	30	
o-Xylene	2.77	0.10	mg/kg	2.50		111	80-125	1	20	
m,p-Xylenes	5.66	0.10	mg/kg	5.00		113	80-120	0	20	
Surrogate: Dibromofluoromethane	5.10		mg/kg	5.00		102	55-155			
Surrogate: Toluene-d8	5.09		mg/kg	5.00		102	60-160			
Surrogate: 4-Bromofluorobenzene	5.00		mg/kg	5.00		100	60-155			

**Del Mar Analytical, Irvine**  
 Wendy Kirkeeng For Kathleen A. Robb  
 Project Manager

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## METHOD BLANK/QC DATA

### VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 4L16022 Extracted: 12/16/04</b>										
<b>Matrix Spike Analyzed: 12/16/2004 (4L16022-MS1)</b>					<b>Source: INL0314-08</b>					
Benzene	3.44	0.10	mg/kg	2.50	ND	138	60-140			
Bromobenzene	3.02	0.25	mg/kg	2.50	ND	121	65-135			
Bromochloromethane	3.51	0.25	mg/kg	2.50	ND	140	65-145			
Bromodichloromethane	3.26	0.10	mg/kg	2.50	ND	130	65-150			
Bromoform	2.89	0.25	mg/kg	2.50	ND	116	60-150			
Bromomethane	2.61	0.25	mg/kg	2.50	ND	104	30-155			
n-Butylbenzene	3.07	0.25	mg/kg	2.50	ND	123	60-155			
sec-Butylbenzene	3.09	0.25	mg/kg	2.50	ND	124	60-150			
tert-Butylbenzene	2.97	0.25	mg/kg	2.50	ND	119	60-155			
Carbon tetrachloride	3.31	0.25	mg/kg	2.50	ND	132	70-145			
Chlorobenzene	3.12	0.10	mg/kg	2.50	ND	125	70-145			
Chloroethane	2.69	0.25	mg/kg	2.50	ND	108	30-165			
Chloroform	3.38	0.10	mg/kg	2.50	ND	135	60-140			
Chloromethane	3.03	0.25	mg/kg	2.50	ND	121	25-155			
2-Chlorotoluene	2.97	0.25	mg/kg	2.50	ND	119	60-145			
4-Chlorotoluene	2.98	0.25	mg/kg	2.50	ND	119	70-140			
Dibromochloromethane	3.08	0.10	mg/kg	2.50	ND	123	60-155			
1,2-Dibromo-3-chloropropane	2.65	0.25	mg/kg	2.50	ND	106	45-155			
1,2-Dibromoethane (EDB)	3.17	0.10	mg/kg	2.50	ND	127	70-145			
Dibromomethane	3.29	0.10	mg/kg	2.50	ND	132	70-140			
1,2-Dichlorobenzene	2.95	0.10	mg/kg	2.50	ND	118	65-135			
1,3-Dichlorobenzene	2.94	0.10	mg/kg	2.50	ND	118	60-150			
1,4-Dichlorobenzene	2.95	0.10	mg/kg	2.50	ND	118	60-145			
Dichlorodifluoromethane	2.40	0.20	mg/kg	2.50	ND	96	10-160			
1,1-Dichloroethane	3.61	0.10	mg/kg	2.50	ND	144	60-150			
1,2-Dichloroethane	3.03	0.10	mg/kg	2.50	ND	121	60-150			
1,1-Dichloroethene	3.95	0.25	mg/kg	2.50	ND	158	60-160			
cis-1,2-Dichloroethene	3.48	0.10	mg/kg	2.50	ND	139	60-135			MI
trans-1,2-Dichloroethene	3.65	0.10	mg/kg	2.50	ND	146	55-150			
1,2-Dichloropropane	3.65	0.10	mg/kg	2.50	ND	146	65-140			MI
1,3-Dichloropropane	3.21	0.10	mg/kg	2.50	ND	128	70-135			
2,2-Dichloropropane	2.31	0.10	mg/kg	2.50	ND	92	55-155			
1,1-Dichloropropene	3.34	0.10	mg/kg	2.50	ND	134	60-145			
cis-1,3-Dichloropropene	3.34	0.10	mg/kg	2.50	ND	134	60-140			
trans-1,3-Dichloropropene	3.32	0.10	mg/kg	2.50	ND	133	60-155			

**Del Mar Analytical, Irvine**  
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 Project Manager

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 Ascon Landfill Site  
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Sampled: 12/14/04  
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## METHOD BLANK/QC DATA

### VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 4L16022 Extracted: 12/16/04</b>										
<b>Matrix Spike Analyzed: 12/16/2004 (4L16022-MS1)</b>					<b>Source: INL0314-08</b>					
Ethylbenzene	3.20	0.10	mg/kg	2.50	ND	128	55-145			
Hexachlorobutadiene	2.91	0.25	mg/kg	2.50	ND	116	60-150			
Isopropylbenzene	3.08	0.10	mg/kg	2.50	ND	123	60-145			
p-Isopropyltoluene	2.99	0.10	mg/kg	2.50	ND	120	55-145			
Methylene chloride	3.89	1.0	mg/kg	2.50	ND	156	55-150			MI
Naphthalene	2.70	0.25	mg/kg	2.50	ND	108	30-165			
n-Propylbenzene	3.10	0.10	mg/kg	2.50	ND	124	55-150			
Styrene	3.29	0.10	mg/kg	2.50	ND	132	65-150			
1,1,1,2-Tetrachloroethane	3.24	0.25	mg/kg	2.50	ND	130	65-150			
1,1,2,2-Tetrachloroethane	3.20	0.10	mg/kg	2.50	ND	128	55-150			
Tetrachloroethene	3.12	0.10	mg/kg	2.50	ND	125	65-150			
Toluene	3.39	0.10	mg/kg	2.50	ND	136	55-145			
1,2,3-Trichlorobenzene	2.89	0.25	mg/kg	2.50	ND	116	50-145			
1,2,4-Trichlorobenzene	2.93	0.25	mg/kg	2.50	ND	117	60-145			
1,1,1-Trichloroethane	3.16	0.10	mg/kg	2.50	ND	126	65-145			
1,1,2-Trichloroethane	3.47	0.10	mg/kg	2.50	ND	139	65-145			
Trichloroethene	3.42	0.10	mg/kg	2.50	ND	137	70-145			
Trichlorofluoromethane	4.12	0.25	mg/kg	2.50	ND	165	35-160			MI
1,2,3-Trichloropropane	3.05	0.50	mg/kg	2.50	ND	122	50-150			
1,2,4-Trimethylbenzene	3.06	0.10	mg/kg	2.50	ND	122	65-140			
1,3,5-Trimethylbenzene	3.05	0.10	mg/kg	2.50	ND	122	65-140			
Vinyl chloride	1.15	0.25	mg/kg	2.50	ND	46	10-120			
o-Xylene	3.14	0.10	mg/kg	2.50	ND	126	60-145			
m,p-Xylenes	6.33	0.10	mg/kg	5.00	ND	127	60-145			
Surrogate: Dibromofluoromethane	3.17		mg/kg	2.50		127	55-155			
Surrogate: Toluene-d8	3.19		mg/kg	2.50		128	60-160			
Surrogate: 4-Bromofluorobenzene	3.06		mg/kg	2.50		122	60-155			

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## METHOD BLANK/QC DATA

### VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	RPD Limit	Data Qualifiers
<b>Batch: 4L16022 Extracted: 12/16/04</b>										
<b>Matrix Spike Dup Analyzed: 12/16/2004 (4L16022-MSD1)</b>					<b>Source: INL0314-08</b>					
Benzene	3.16	0.10	mg/kg	2.50	ND	126	60-140	8	25	
Bromobenzene	2.84	0.25	mg/kg	2.50	ND	114	65-135	6	25	
Bromochloromethane	3.08	0.25	mg/kg	2.50	ND	123	65-145	13	25	
Bromodichloromethane	2.90	0.10	mg/kg	2.50	ND	116	65-150	12	25	
Bromoform	2.42	0.25	mg/kg	2.50	ND	97	60-150	18	30	
Bromomethane	2.40	0.25	mg/kg	2.50	ND	96	30-155	8	30	
n-Butylbenzene	2.86	0.25	mg/kg	2.50	ND	114	60-155	7	25	
sec-Butylbenzene	2.93	0.25	mg/kg	2.50	ND	117	60-150	5	25	
tert-Butylbenzene	2.82	0.25	mg/kg	2.50	ND	113	60-155	5	20	
Carbon tetrachloride	3.02	0.25	mg/kg	2.50	ND	121	70-145	9	20	
Chlorobenzene	2.88	0.10	mg/kg	2.50	ND	115	70-145	8	25	
Chloroethane	2.47	0.25	mg/kg	2.50	ND	99	30-165	9	25	
Chloroform	3.10	0.10	mg/kg	2.50	ND	124	60-140	9	25	
Chloromethane	2.65	0.25	mg/kg	2.50	ND	106	25-155	13	25	
2-Chlorotoluene	2.84	0.25	mg/kg	2.50	ND	114	60-145	4	25	
4-Chlorotoluene	2.87	0.25	mg/kg	2.50	ND	115	70-140	4	25	
Dibromochloromethane	2.71	0.10	mg/kg	2.50	ND	108	60-155	13	25	
1,2-Dibromo-3-chloropropane	2.18	0.25	mg/kg	2.50	ND	87	45-155	19	30	
1,2-Dibromoethane (EDB)	2.71	0.10	mg/kg	2.50	ND	108	70-145	16	25	
Dibromomethane	2.84	0.10	mg/kg	2.50	ND	114	70-140	15	25	
1,2-Dichlorobenzene	2.68	0.10	mg/kg	2.50	ND	107	65-135	10	20	
1,3-Dichlorobenzene	2.73	0.10	mg/kg	2.50	ND	109	60-150	7	25	
1,4-Dichlorobenzene	2.73	0.10	mg/kg	2.50	ND	109	60-145	8	25	
Dichlorodifluoromethane	1.99	0.20	mg/kg	2.50	ND	80	10-160	19	30	
1,1-Dichloroethane	3.31	0.10	mg/kg	2.50	ND	132	60-150	9	25	
1,2-Dichloroethane	2.66	0.10	mg/kg	2.50	ND	106	60-150	13	25	
1,1-Dichloroethene	3.53	0.25	mg/kg	2.50	ND	141	60-160	11	20	
cis-1,2-Dichloroethene	3.20	0.10	mg/kg	2.50	ND	128	60-135	8	20	
trans-1,2-Dichloroethene	3.30	0.10	mg/kg	2.50	ND	132	55-150	10	25	
1,2-Dichloropropane	3.28	0.10	mg/kg	2.50	ND	131	65-140	11	25	
1,3-Dichloropropane	2.82	0.10	mg/kg	2.50	ND	113	70-135	13	25	
2,2-Dichloropropane	2.15	0.10	mg/kg	2.50	ND	86	55-155	7	25	
1,1-Dichloropropene	3.06	0.10	mg/kg	2.50	ND	122	60-145	9	20	
cis-1,3-Dichloropropene	2.97	0.10	mg/kg	2.50	ND	119	60-140	12	20	
trans-1,3-Dichloropropene	2.84	0.10	mg/kg	2.50	ND	114	60-155	16	25	

**Del Mar Analytical, Irvine**  
 Wendy Kirkeeng For Kathleen A. Robb  
 Project Manager

Project Navigator  
 One Pointe Drive, Suite 320  
 Brea, CA 92821  
 Attention: David Tietje

Project ID: Ascon  
 Ascon Landfill Site  
 Report Number: INL0982

Sampled: 12/14/04  
 Received: 12/14/04

## METHOD BLANK/QC DATA

### VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 4L16022 Extracted: 12/16/04</b>										
<b>Matrix Spike Dup Analyzed: 12/16/2004 (4L16022-MSD1)</b>					<b>Source: INL0314-08</b>					
Ethylbenzene	2.96	0.10	mg/kg	2.50	ND	118	55-145	8	25	
Hexachlorobutadiene	2.78	0.25	mg/kg	2.50	ND	111	60-150	5	25	
Isopropylbenzene	2.97	0.10	mg/kg	2.50	ND	119	60-145	4	25	
p-Isopropyltoluene	2.79	0.10	mg/kg	2.50	ND	112	55-145	7	25	
Methylene chloride	3.45	1.0	mg/kg	2.50	ND	138	55-150	12	25	
Naphthalene	2.32	0.25	mg/kg	2.50	ND	93	30-165	15	30	
n-Propylbenzene	3.00	0.10	mg/kg	2.50	ND	120	55-150	3	25	
Styrene	2.96	0.10	mg/kg	2.50	ND	118	65-150	11	20	
1,1,1,2-Tetrachloroethane	2.98	0.25	mg/kg	2.50	ND	119	65-150	8	25	
1,1,2,2-Tetrachloroethane	2.76	0.10	mg/kg	2.50	ND	110	55-150	15	25	
Tetrachloroethene	2.92	0.10	mg/kg	2.50	ND	117	65-150	7	20	
Toluene	3.08	0.10	mg/kg	2.50	ND	123	55-145	10	25	
1,2,3-Trichlorobenzene	2.64	0.25	mg/kg	2.50	ND	106	50-145	9	25	
1,2,4-Trichlorobenzene	2.71	0.25	mg/kg	2.50	ND	108	60-145	8	20	
1,1,1-Trichloroethane	2.88	0.10	mg/kg	2.50	ND	115	65-145	9	25	
1,1,2-Trichloroethane	2.96	0.10	mg/kg	2.50	ND	118	65-145	16	25	
Trichloroethene	3.10	0.10	mg/kg	2.50	ND	124	70-145	10	25	
Trichlorofluoromethane	3.61	0.25	mg/kg	2.50	ND	144	35-160	13	30	
1,2,3-Trichloropropane	2.60	0.50	mg/kg	2.50	ND	104	50-150	16	30	
1,2,4-Trimethylbenzene	2.88	0.10	mg/kg	2.50	ND	115	65-140	6	20	
1,3,5-Trimethylbenzene	2.90	0.10	mg/kg	2.50	ND	116	65-140	5	25	
Vinyl chloride	1.05	0.25	mg/kg	2.50	ND	42	10-120	9	35	
o-Xylene	2.88	0.10	mg/kg	2.50	ND	115	60-145	9	25	
m,p-Xylenes	5.86	0.10	mg/kg	5.00	ND	117	60-145	8	25	
Surrogate: Dibromofluoromethane	2.84		mg/kg	2.50		114	55-155			
Surrogate: Toluene-d8	2.90		mg/kg	2.50		116	60-160			
Surrogate: 4-Bromofluorobenzene	2.77		mg/kg	2.50		111	60-155			

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## METHOD BLANK/QC DATA

### VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
<b>Batch: 4L22032 Extracted: 12/22/04</b>										
<b>Blank Analyzed: 12/22/2004 (4L22032-BLK1)</b>										
Benzene	ND	2.0	ug/l							
Bromobenzene	ND	5.0	ug/l							
Bromochloromethane	ND	5.0	ug/l							
Bromodichloromethane	ND	2.0	ug/l							
Bromoform	ND	5.0	ug/l							
Bromomethane	ND	5.0	ug/l							
n-Butylbenzene	ND	5.0	ug/l							
sec-Butylbenzene	ND	5.0	ug/l							
tert-Butylbenzene	ND	5.0	ug/l							
Carbon tetrachloride	ND	5.0	ug/l							
Chlorobenzene	ND	2.0	ug/l							
Chloroethane	ND	5.0	ug/l							
Chloroform	ND	2.0	ug/l							
Chloromethane	ND	5.0	ug/l							
2-Chlorotoluene	ND	5.0	ug/l							
4-Chlorotoluene	ND	5.0	ug/l							
Dibromochloromethane	ND	2.0	ug/l							
1,2-Dibromo-3-chloropropane	ND	5.0	ug/l							
1,2-Dibromoethane (EDB)	ND	2.0	ug/l							
Dibromomethane	ND	2.0	ug/l							
1,2-Dichlorobenzene	ND	2.0	ug/l							
1,3-Dichlorobenzene	ND	2.0	ug/l							
1,4-Dichlorobenzene	ND	2.0	ug/l							
Dichlorodifluoromethane	ND	5.0	ug/l							
1,1-Dichloroethane	ND	2.0	ug/l							
1,2-Dichloroethane	ND	2.0	ug/l							
1,1-Dichloroethene	ND	5.0	ug/l							
cis-1,2-Dichloroethene	ND	2.0	ug/l							
trans-1,2-Dichloroethene	ND	2.0	ug/l							
1,2-Dichloropropane	ND	2.0	ug/l							
1,3-Dichloropropane	ND	2.0	ug/l							
2,2-Dichloropropane	ND	2.0	ug/l							
1,1-Dichloropropene	ND	2.0	ug/l							
cis-1,3-Dichloropropene	ND	2.0	ug/l							
trans-1,3-Dichloropropene	ND	2.0	ug/l							

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## METHOD BLANK/QC DATA

### VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 4L22032 Extracted: 12/22/04</b>										
<b>Blank Analyzed: 12/22/2004 (4L22032-BLK1)</b>										
Ethylbenzene	ND	2.0	ug/l							
Hexachlorobutadiene	ND	5.0	ug/l							
Isopropylbenzene	ND	2.0	ug/l							
p-Isopropyltoluene	ND	2.0	ug/l							
Methylene chloride	ND	5.0	ug/l							
Naphthalene	ND	5.0	ug/l							
n-Propylbenzene	ND	2.0	ug/l							
Styrene	ND	2.0	ug/l							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/l							
1,1,2,2-Tetrachloroethane	ND	2.0	ug/l							
Tetrachloroethene	ND	2.0	ug/l							
Toluene	ND	2.0	ug/l							
1,2,3-Trichlorobenzene	ND	5.0	ug/l							
1,2,4-Trichlorobenzene	ND	5.0	ug/l							
1,1,1-Trichloroethane	ND	2.0	ug/l							
1,1,2-Trichloroethane	ND	2.0	ug/l							
Trichloroethene	ND	2.0	ug/l							
Trichlorofluoromethane	ND	5.0	ug/l							
1,2,3-Trichloropropane	ND	10	ug/l							
1,2,4-Trimethylbenzene	ND	2.0	ug/l							
1,3,5-Trimethylbenzene	ND	2.0	ug/l							
Vinyl chloride	ND	5.0	ug/l							
o-Xylene	ND	2.0	ug/l							
m,p-Xylenes	ND	2.0	ug/l							
Surrogate: Dibromofluoromethane	25.2		ug/l	25.0		101	80-120			
Surrogate: Toluene-d8	25.2		ug/l	25.0		101	80-120			
Surrogate: 4-Bromofluorobenzene	24.1		ug/l	25.0		96	80-120			

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### VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	RPD Limit	Data Qualifiers
<b>Batch: 4L22032 Extracted: 12/22/04</b>										
<b>LCS Analyzed: 12/22/2004 (4L22032-BS1)</b>										
Benzene	20.8	2.0	ug/l	25.0		83	70-120			
Bromobenzene	23.2	5.0	ug/l	25.0		93	80-120			
Bromochloromethane	23.6	5.0	ug/l	25.0		94	65-135			
Bromodichloromethane	25.2	2.0	ug/l	25.0		101	70-140			
Bromoform	22.4	5.0	ug/l	25.0		90	55-135			
Bromomethane	23.3	5.0	ug/l	25.0		93	60-140			
n-Butylbenzene	23.6	5.0	ug/l	25.0		94	75-130			
sec-Butylbenzene	23.3	5.0	ug/l	25.0		93	75-125			
tert-Butylbenzene	23.3	5.0	ug/l	25.0		93	75-125			
Carbon tetrachloride	26.1	5.0	ug/l	25.0		104	70-140			
Chlorobenzene	22.2	2.0	ug/l	25.0		89	80-125			
Chloroethane	20.2	5.0	ug/l	25.0		81	60-145			
Chloroform	24.2	2.0	ug/l	25.0		97	75-130			
Chloromethane	16.8	5.0	ug/l	25.0		67	40-145			
2-Chlorotoluene	21.8	5.0	ug/l	25.0		87	75-125			
4-Chlorotoluene	22.7	5.0	ug/l	25.0		91	75-125			
Dibromochloromethane	22.4	2.0	ug/l	25.0		90	65-145			
1,2-Dibromo-3-chloropropane	19.6	5.0	ug/l	25.0		78	50-135			
1,2-Dibromoethane (EDB)	22.8	2.0	ug/l	25.0		91	75-125			
Dibromomethane	23.4	2.0	ug/l	25.0		94	75-130			
1,2-Dichlorobenzene	23.8	2.0	ug/l	25.0		95	80-120			
1,3-Dichlorobenzene	23.2	2.0	ug/l	25.0		93	80-120			
1,4-Dichlorobenzene	22.7	2.0	ug/l	25.0		91	80-120			
Dichlorodifluoromethane	22.0	5.0	ug/l	25.0		88	10-160			
1,1-Dichloroethane	21.4	2.0	ug/l	25.0		86	70-135			
1,2-Dichloroethane	25.1	2.0	ug/l	25.0		100	60-150			
1,1-Dichloroethene	20.6	5.0	ug/l	25.0		82	75-135			
cis-1,2-Dichloroethene	21.3	2.0	ug/l	25.0		85	70-125			
trans-1,2-Dichloroethene	22.1	2.0	ug/l	25.0		88	70-130			
1,2-Dichloropropane	20.2	2.0	ug/l	25.0		81	70-120			
1,3-Dichloropropane	20.2	2.0	ug/l	25.0		81	70-130			
2,2-Dichloropropane	24.4	2.0	ug/l	25.0		98	65-150			
1,1-Dichloropropene	22.4	2.0	ug/l	25.0		90	75-130			
cis-1,3-Dichloropropene	22.4	2.0	ug/l	25.0		90	75-130			
trans-1,3-Dichloropropene	23.4	2.0	ug/l	25.0		94	75-135			

**Del Mar Analytical, Irvine**  
 Wendy Kirkeeng For Kathleen A. Robb  
 Project Manager





Project Navigator  
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Project ID: Ascon  
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## METHOD BLANK/QC DATA

### VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	RPD Limit	Data Qualifiers
<b>Batch: 4L22032 Extracted: 12/22/04</b>										
<b>LCS Analyzed: 12/22/2004 (4L22032-BS1)</b>										
Ethylbenzene	22.4	2.0	ug/l	25.0		90	80-120			
Hexachlorobutadiene	23.0	5.0	ug/l	25.0		92	65-140			
Isopropylbenzene	23.9	2.0	ug/l	25.0		96	75-125			
p-Isopropyltoluene	23.4	2.0	ug/l	25.0		94	75-125			
Methylene chloride	20.7	5.0	ug/l	25.0		83	60-135			
Naphthalene	21.9	5.0	ug/l	25.0		88	50-145			
n-Propylbenzene	22.5	2.0	ug/l	25.0		90	75-130			
Styrene	23.7	2.0	ug/l	25.0		95	80-135			
1,1,1,2-Tetrachloroethane	24.8	5.0	ug/l	25.0		99	70-145			
1,1,2,2-Tetrachloroethane	21.2	2.0	ug/l	25.0		85	60-135			
Tetrachloroethene	22.6	2.0	ug/l	25.0		90	75-125			
Toluene	22.4	2.0	ug/l	25.0		90	75-120			
1,2,3-Trichlorobenzene	21.5	5.0	ug/l	25.0		86	65-135			
1,2,4-Trichlorobenzene	22.7	5.0	ug/l	25.0		91	70-140			
1,1,1-Trichloroethane	25.1	2.0	ug/l	25.0		100	75-140			
1,1,2-Trichloroethane	21.1	2.0	ug/l	25.0		84	70-125			
Trichloroethene	23.2	2.0	ug/l	25.0		93	80-120			
Trichlorofluoromethane	24.5	5.0	ug/l	25.0		98	65-145			
1,2,3-Trichloropropane	20.6	10	ug/l	25.0		82	60-130			
1,2,4-Trimethylbenzene	23.6	2.0	ug/l	25.0		94	75-125			
1,3,5-Trimethylbenzene	23.9	2.0	ug/l	25.0		96	75-125			
Vinyl chloride	19.9	5.0	ug/l	25.0		80	50-130			
o-Xylene	21.9	2.0	ug/l	25.0		88	75-125			
m,p-Xylenes	44.8	2.0	ug/l	50.0		90	75-120			
Surrogate: Dibromofluoromethane	25.8		ug/l	25.0		103	80-120			
Surrogate: Toluene-d8	25.7		ug/l	25.0		103	80-120			
Surrogate: 4-Bromofluorobenzene	24.9		ug/l	25.0		100	80-120			

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## METHOD BLANK/QC DATA

### VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	RPD Limit	Data Qualifiers
<b>Batch: 4L22032 Extracted: 12/22/04</b>										
<b>Matrix Spike Analyzed: 12/23/2004 (4L22032-MS1)</b>					<b>Source: INL1538-04</b>					
Benzene	25.6	2.0	ug/l	25.0	0.74	99	70-120			
Bromobenzene	28.3	5.0	ug/l	25.0	ND	113	65-130			
Bromochloromethane	30.1	5.0	ug/l	25.0	ND	120	65-140			
Bromodichloromethane	27.4	2.0	ug/l	25.0	ND	110	70-140			
Bromoform	28.8	5.0	ug/l	25.0	ND	115	55-140			
Bromomethane	27.0	5.0	ug/l	25.0	ND	108	50-145			
n-Butylbenzene	25.9	5.0	ug/l	25.0	ND	104	70-140			
sec-Butylbenzene	26.2	5.0	ug/l	25.0	ND	105	70-130			
tert-Butylbenzene	26.8	5.0	ug/l	25.0	ND	107	70-130			
Carbon tetrachloride	31.6	5.0	ug/l	25.0	ND	126	70-145			
Chlorobenzene	26.0	2.0	ug/l	25.0	ND	104	80-125			
Chloroethane	24.6	5.0	ug/l	25.0	ND	98	50-145			
Chloroform	30.1	2.0	ug/l	25.0	ND	120	70-135			
Chloromethane	21.5	5.0	ug/l	25.0	ND	86	35-145			
2-Chlorotoluene	25.8	5.0	ug/l	25.0	ND	103	70-140			
4-Chlorotoluene	26.6	5.0	ug/l	25.0	ND	106	70-140			
Dibromochloromethane	28.4	2.0	ug/l	25.0	ND	114	65-145			
1,2-Dibromo-3-chloropropane	26.8	5.0	ug/l	25.0	ND	107	45-155			
1,2-Dibromoethane (EDB)	28.3	2.0	ug/l	25.0	ND	113	70-130			
Dibromomethane	28.3	2.0	ug/l	25.0	ND	113	65-140			
1,2-Dichlorobenzene	27.9	2.0	ug/l	25.0	ND	112	75-130			
1,3-Dichlorobenzene	26.5	2.0	ug/l	25.0	ND	106	75-130			
1,4-Dichlorobenzene	26.6	2.0	ug/l	25.0	ND	106	80-120			
Dichlorodifluoromethane	33.1	5.0	ug/l	25.0	ND	132	10-160			
1,1-Dichloroethane	29.4	2.0	ug/l	25.0	2.7	107	65-135			
1,2-Dichloroethane	31.5	2.0	ug/l	25.0	ND	126	60-150			
1,1-Dichloroethene	42.6	5.0	ug/l	25.0	21	86	65-140			
cis-1,2-Dichloroethene	81.4	2.0	ug/l	25.0	57	98	65-130			
trans-1,2-Dichloroethene	33.1	2.0	ug/l	25.0	6.0	108	65-135			
1,2-Dichloropropane	22.5	2.0	ug/l	25.0	ND	90	65-130			
1,3-Dichloropropane	24.8	2.0	ug/l	25.0	ND	99	65-140			
2,2-Dichloropropane	25.6	2.0	ug/l	25.0	ND	102	60-150			
1,1-Dichloropropene	26.7	2.0	ug/l	25.0	ND	107	65-140			
cis-1,3-Dichloropropene	27.7	2.0	ug/l	25.0	ND	111	70-140			
trans-1,3-Dichloropropene	29.5	2.0	ug/l	25.0	ND	118	70-140			

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## METHOD BLANK/QC DATA

### VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 4L22032 Extracted: 12/22/04</b>										
<b>Matrix Spike Analyzed: 12/23/2004 (4L22032-MS1)</b>					<b>Source: INL1538-04</b>					
Ethylbenzene	25.5	2.0	ug/l	25.0	ND	102	70-130			
Hexachlorobutadiene	22.5	5.0	ug/l	25.0	ND	90	65-140			
Isopropylbenzene	28.0	2.0	ug/l	25.0	ND	112	70-130			
p-Isopropyltoluene	25.8	2.0	ug/l	25.0	ND	103	70-130			
Methylene chloride	25.3	5.0	ug/l	25.0	ND	101	60-135			
Naphthalene	27.0	5.0	ug/l	25.0	ND	108	50-150			
n-Propylbenzene	26.6	2.0	ug/l	25.0	ND	106	70-135			
Styrene	24.1	2.0	ug/l	25.0	ND	96	55-145			
1,1,1,2-Tetrachloroethane	29.6	5.0	ug/l	25.0	ND	118	70-145			
1,1,2,2-Tetrachloroethane	30.0	2.0	ug/l	25.0	ND	120	60-145			
Toluene	28.0	2.0	ug/l	25.0	1.0	108	70-120			
1,2,3-Trichlorobenzene	25.2	5.0	ug/l	25.0	ND	101	60-140			
1,2,4-Trichlorobenzene	24.9	5.0	ug/l	25.0	ND	100	60-140			
1,1,1-Trichloroethane	30.9	2.0	ug/l	25.0	ND	124	75-140			
1,1,2-Trichloroethane	27.8	2.0	ug/l	25.0	0.38	110	60-135			
Trichlorofluoromethane	30.2	5.0	ug/l	25.0	ND	121	55-145			
1,2,3-Trichloropropane	27.6	10	ug/l	25.0	ND	110	55-140			
1,2,4-Trimethylbenzene	25.4	2.0	ug/l	25.0	ND	102	60-125			
1,3,5-Trimethylbenzene	26.9	2.0	ug/l	25.0	ND	108	70-130			
Vinyl chloride	25.6	5.0	ug/l	25.0	1.0	98	40-135			
o-Xylene	25.2	2.0	ug/l	25.0	ND	101	65-125			
m,p-Xylenes	51.2	2.0	ug/l	50.0	ND	102	65-130			
Surrogate: Dibromofluoromethane	27.7		ug/l	25.0		111	80-120			
Surrogate: Toluene-d8	26.5		ug/l	25.0		106	80-120			
Surrogate: 4-Bromofluorobenzene	24.6		ug/l	25.0		98	80-120			

#### Matrix Spike Dup Analyzed: 12/23/2004 (4L22032-MSD1)

Source: INL1538-04

Benzene	25.4	2.0	ug/l	25.0	0.74	99	70-120	1	20	
Bromobenzene	28.5	5.0	ug/l	25.0	ND	114	65-130	1	20	
Bromochloromethane	29.9	5.0	ug/l	25.0	ND	120	65-140	1	25	
Bromodichloromethane	27.1	2.0	ug/l	25.0	ND	108	70-140	1	20	
Bromoform	29.4	5.0	ug/l	25.0	ND	118	55-140	2	25	
Bromomethane	26.8	5.0	ug/l	25.0	ND	107	50-145	1	25	
n-Butylbenzene	25.1	5.0	ug/l	25.0	ND	100	70-140	3	20	
sec-Butylbenzene	26.0	5.0	ug/l	25.0	ND	104	70-130	1	20	
tert-Butylbenzene	26.6	5.0	ug/l	25.0	ND	106	70-130	1	20	

**Del Mar Analytical, Irvine**  
 Wendy Kirkeeng For Kathleen A. Robb  
 Project Manager



Project Navigator  
 One Pointe Drive, Suite 320  
 Brea, CA 92821  
 Attention: David Tietje

Project ID: Ascon  
 Ascon Landfill Site  
 Report Number: INL0982

Sampled: 12/14/04  
 Received: 12/14/04

## METHOD BLANK/QC DATA

### VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
<b>Batch: 4L22032 Extracted: 12/22/04</b>										
<b>Matrix Spike Dup Analyzed: 12/23/2004 (4L22032-MSD1)</b>					<b>Source: INL1538-04</b>					
Carbon tetrachloride	30.6	5.0	ug/l	25.0	ND	122	70-145	3	25	
Chlorobenzene	26.1	2.0	ug/l	25.0	ND	104	80-125	0	20	
Chloroethane	24.7	5.0	ug/l	25.0	ND	99	50-145	0	25	
Chloroform	29.5	2.0	ug/l	25.0	ND	118	70-135	2	20	
Chloromethane	21.3	5.0	ug/l	25.0	ND	85	35-145	1	25	
2-Chlorotoluene	26.0	5.0	ug/l	25.0	ND	104	70-140	1	20	
4-Chlorotoluene	26.6	5.0	ug/l	25.0	ND	106	70-140	0	20	
Dibromochloromethane	28.5	2.0	ug/l	25.0	ND	114	65-145	0	25	
1,2-Dibromo-3-chloropropane	27.0	5.0	ug/l	25.0	ND	108	45-155	1	30	
1,2-Dibromoethane (EDB)	28.4	2.0	ug/l	25.0	ND	114	70-130	0	25	
Dibromomethane	28.1	2.0	ug/l	25.0	ND	112	65-140	1	25	
1,2-Dichlorobenzene	27.7	2.0	ug/l	25.0	ND	111	75-130	1	20	
1,3-Dichlorobenzene	26.7	2.0	ug/l	25.0	ND	107	75-130	1	20	
1,4-Dichlorobenzene	26.8	2.0	ug/l	25.0	ND	107	80-120	1	20	
Dichlorodifluoromethane	31.3	5.0	ug/l	25.0	ND	125	10-160	6	30	
1,1-Dichloroethane	29.1	2.0	ug/l	25.0	2.7	106	65-135	1	20	
1,2-Dichloroethane	31.2	2.0	ug/l	25.0	ND	125	60-150	1	20	
1,1-Dichloroethene	41.3	5.0	ug/l	25.0	21	81	65-140	3	20	
cis-1,2-Dichloroethene	80.0	2.0	ug/l	25.0	57	92	65-130	2	20	
trans-1,2-Dichloroethene	32.6	2.0	ug/l	25.0	6.0	106	65-135	2	20	
1,2-Dichloropropane	21.6	2.0	ug/l	25.0	ND	86	65-130	4	20	
1,3-Dichloropropane	25.3	2.0	ug/l	25.0	ND	101	65-140	2	25	
2,2-Dichloropropane	25.1	2.0	ug/l	25.0	ND	100	60-150	2	25	
1,1-Dichloropropene	26.6	2.0	ug/l	25.0	ND	106	65-140	0	20	
cis-1,3-Dichloropropene	27.3	2.0	ug/l	25.0	ND	109	70-140	1	20	
trans-1,3-Dichloropropene	28.9	2.0	ug/l	25.0	ND	116	70-140	2	25	
Ethylbenzene	25.6	2.0	ug/l	25.0	ND	102	70-130	0	20	
Hexachlorobutadiene	21.6	5.0	ug/l	25.0	ND	86	65-140	4	20	
Isopropylbenzene	28.2	2.0	ug/l	25.0	ND	113	70-130	1	20	
p-Isopropyltoluene	25.2	2.0	ug/l	25.0	ND	101	70-130	2	20	
Methylene chloride	25.0	5.0	ug/l	25.0	ND	100	60-135	1	20	
Naphthalene	26.6	5.0	ug/l	25.0	ND	106	50-150	1	30	
n-Propylbenzene	26.4	2.0	ug/l	25.0	ND	106	70-135	1	20	
Styrene	22.3	2.0	ug/l	25.0	ND	89	55-145	8	30	
1,1,1,2-Tetrachloroethane	29.5	5.0	ug/l	25.0	ND	118	70-145	0	20	

**Del Mar Analytical, Irvine**  
 Wendy Kirkeeng For Kathleen A. Robb  
 Project Manager

Project Navigator  
 One Pointe Drive, Suite 320  
 Brea, CA 92821  
 Attention: David Tietje

Project ID: Ascon  
 Ascon Landfill Site  
 Report Number: INL0982

Sampled: 12/14/04  
 Received: 12/14/04

## METHOD BLANK/QC DATA

### VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 4L22032 Extracted: 12/22/04</b>										
<b>Matrix Spike Dup Analyzed: 12/23/2004 (4L22032-MSD1)</b>					<b>Source: INL1538-04</b>					
1,1,2,2-Tetrachloroethane	30.9	2.0	ug/l	25.0	ND	124	60-145	3	30	
Toluene	27.7	2.0	ug/l	25.0	1.0	107	70-120	1	20	
1,2,3-Trichlorobenzene	24.0	5.0	ug/l	25.0	ND	96	60-140	5	20	
1,2,4-Trichlorobenzene	24.0	5.0	ug/l	25.0	ND	96	60-140	4	20	
1,1,1-Trichloroethane	29.7	2.0	ug/l	25.0	ND	119	75-140	4	20	
1,1,2-Trichloroethane	26.8	2.0	ug/l	25.0	0.38	106	60-135	4	25	
Trichlorofluoromethane	29.0	5.0	ug/l	25.0	ND	116	55-145	4	25	
1,2,3-Trichloropropane	27.9	10	ug/l	25.0	ND	112	55-140	1	30	
1,2,4-Trimethylbenzene	24.5	2.0	ug/l	25.0	ND	98	60-125	4	25	
1,3,5-Trimethylbenzene	26.6	2.0	ug/l	25.0	ND	106	70-130	1	20	
Vinyl chloride	25.3	5.0	ug/l	25.0	1.0	97	40-135	1	30	
o-Xylene	25.0	2.0	ug/l	25.0	ND	100	65-125	1	20	
m,p-Xylenes	50.7	2.0	ug/l	50.0	ND	101	65-130	1	25	
Surrogate: Dibromofluoromethane	27.3		ug/l	25.0		109	80-120			
Surrogate: Toluene-d8	26.0		ug/l	25.0		104	80-120			
Surrogate: 4-Bromofluorobenzene	24.5		ug/l	25.0		98	80-120			

**Del Mar Analytical, Irvine**  
 Wendy Kirkeeng For Kathleen A. Robb  
 Project Manager



Project Navigator  
One Pointe Drive, Suite 320  
Brea, CA 92821  
Attention: David Tietje

Project ID: Ascon  
Ascon Landfill Site  
Report Number: INL0982

Sampled: 12/14/04  
Received: 12/14/04

## DATA QUALIFIERS AND DEFINITIONS

- M1** The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M2** The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M-HA** Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
- Z3** The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

**Del Mar Analytical, Irvine**  
Wendy Kirkeeng For Kathleen A. Robb  
Project Manager

Project Navigator  
 One Pointe Drive, Suite 320  
 Brea, CA 92821  
 Attention: David Tietje

Project ID: Ascon  
 Ascon Landfill Site  
 Report Number: INL0982

Sampled: 12/14/04  
 Received: 12/14/04

## Certification Summary

### Del Mar Analytical, Irvine

Method	Matrix	NELAP	CA
EPA 418.1	Soil	X	X
EPA 418.1	Solid	X	X
EPA 8260B	Soil-extr	X	X
EPA 8260B	Water	X	X

*NV and NELAP provide analyte specific accreditations. Analyte specific information for Del Mar Analytical may be obtained by contacting the laboratory or visiting our website at [www.dmalabs.com](http://www.dmalabs.com).*

### Subcontracted Laboratories

#### Aquatic Testing Laboratories-SUB CA ELAP Cert #1775

4350 Transport Street, Unit 107 - Ventura, CA 93003

Analysis Performed: Bioassay-Haz. Waste

Samples: INL0982-01, INL0982-02, INL0982-03

**Del Mar Analytical, Irvine**  
 Wendy Kirkeeng For Kathleen A. Robb  
 Project Manager



Del Mar Analytical

Client Name/Address:

Project Navigator, Ltd.  
1 Pointe Dr. Ste. 320  
Brea, CA 92621

P.O. #:

Project:  
A Sea Landfill Site

Project Manager/Phone Number:

David Tietj / 714.388-1809

Phone Number:

Fax Number:

714.388-1839

Sampler:

David Tietj

ANALYSIS REQUIRED

TRP-1 by EPA 918.1	Biosensing Hwt.	VCS - 8260B	DM = Drilling Mud
--------------------	-----------------	-------------	-------------------

Sample Description	Sample Matrix	Container Type	# of Containers	Sampling Date/Time	Preservation	Special Instructions
PNL-L1-TE	Tea	MASON JAR	1	12/14/04	None	
"	Tea	MASON JAR	1	"	"	
"	Tea	MASON JAR	1	"	HCO	Analyze After 96 hr (TRP-1)
PNL-LAS-TE	DM	MASON JAR	1	12/14/04	None	
"	DM	MASON JAR	1	"	"	
"	DM	MASON JAR	1	"	HCO	Analyze After 96 hr (TRP-1)
PNL-FLA-TE	DM	MASON JAR	1	12/14/04	None	
"	DM	MASON JAR	1	"	"	
"	DM	MASON JAR	3	"	HCO	Analyze After 96 hr (TRP-1)
PNL-TE-TB	TB	TB	1	12/14/04	HCO	

Relinquished By: *[Signature]* Date/Time: 12/14/04 1705

Received By: *[Signature]* Date/Time: 12/14/04 1705

Relinquished By: *[Signature]* Date/Time: 12/14/04 1705

Received By: *[Signature]* Date/Time: 12/14/04 1705

Relinquished By: *[Signature]* Date/Time: 12/14/04 1705

Received By: *[Signature]* Date/Time: 12/14/04 1705

Turnaround Time: (check)  
 Same Day \_\_\_\_\_ 72 Hours \_\_\_\_\_  
 24 Hours \_\_\_\_\_ 5 days \_\_\_\_\_  
 48 hours \_\_\_\_\_ normal \_\_\_\_\_ X  
 Sample Integrity: (Check)  
 Intact \_\_\_\_\_ X On Ice: \_\_\_\_\_ X



December 29, 2004

Project Navigator  
One Pointe Drive, Suite 320  
Brea, CA 92821

Attention: David Tietje  
Project: Ascon Landfill Site  
Sampled: 12/14/04  
Del Mar Analytical Number: INL0982

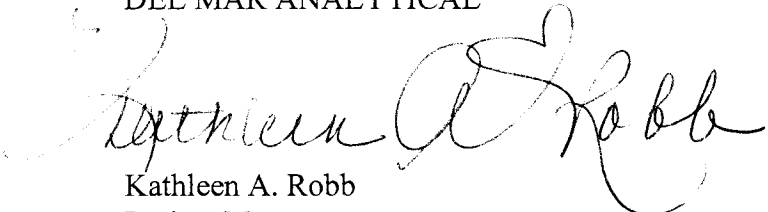
Dear Mr. Tietje:

Aquatic Testing Laboratories performed the Fathead Minnow Hazardous Waste Screen Bioassay analysis for the project referenced above. Please use the following cross-reference table when reviewing your results.

PN ID	Del Mar ID	ATL ID
PNL-L1-TE	INL0982-01	A-04121602-001
PNL-L45-TE	INL0982-02	A-04121602-002
PNL-FLA-TE	INL0982-03	A-04121602-003

Attached are the original reports from the subcontract laboratories. If you have any questions or require further assistance, please contact me at (949) 261-1022, extension 218.

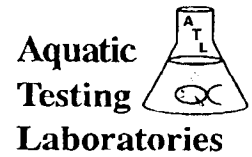
Sincerely yours,  
DEL MAR ANALYTICAL



Kathleen A. Robb  
Project Manager

Enclosure

**LABORATORY REPORT**



**Date:** December 21, 2004

**Client:** Del Mar Analytical  
17461 Derian Avenue, Suite 100  
Irvine, CA 92614-5817  
Attn: Kathleen A. Robb

*"dedicated to providing quality aquatic toxicity testing"*

4350 Transport Street, Unit 107  
Ventura, CA 93003  
(805) 650-0546 FAX (805) 650-0756

CA DOHS ELAP Cert. No.: 1775

**Laboratory No.:** A-04121602-001/003  
**Sample I.D.:** INL0982-01/03

**Sample Control:** The sample was received by ATL with the chain of custody record attached.

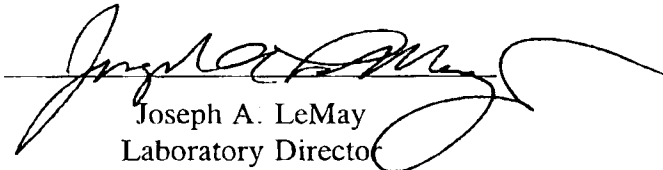
Date Sampled: 12/14/04  
Date Received: 12/16/04  
Date Tested: 12/16/04 to 12/21/04

**Sample Analysis:** The following analyses were performed on your sample:  
CCR Title 22 - Fathead Minnow Hazardous Waste Screen Bioassay (Polisini and Miller 1988).  
Attached are the test data generated from the analysis of your sample.

**Result Summary:**

<u>Sample ID.</u>	<u>Results</u>
INL0982-01	PASSED (LC50 > 750 mg/l)
INL0982-02	PASSED (LC50 > 750 mg/l)
INL0982-03	PASSED (LC50 > 750 mg/l)

**Quality Control:** Reviewed and approved by:

  
Joseph A. LeMay  
Laboratory Director



**FATHEAD MINNOW HAZARDOUS WASTE  
SCREEN BIOASSAY**



Lab No.: A04121602-001

Client/ID: Del Mar INC 0982-01

**TEST SUMMARY**

Species: *Pimephales promelas*.  
 Fish length (mm): av: 26.2; min: 25; max: 28.  
 Fish weight (gm): av: 0.29; min: 0.25; max: 0.37.  
 Test chamber volume: 10 liters.  
 Temperature: 20 +/- 2°C.  
 Aeration: Single bubble through narrow bore tube.  
 Number of replicates: 2.  
 Dilution water: Soft reconstituted water (40 - 48 mg/l CaCO<sub>3</sub>).  
 QA/QC Batch No.: RT-041205.

Source: In-lab culture.  
 Regulations: CCR Title 22.  
 Test Protocol: California F&G/DHS 1988.  
 Endpoints: Survival at 96 hrs.  
 Test type: Static.  
 Feeding: None.  
 Number of fish per chamber: 10.  
 Photoperiod: 16/8 hrs light/dark.

**TEST DATA**

	INITIAL				24 Hr				48 Hr				72 Hr				96 Hr			
Date/Time:	12-17-04 1030				12-18-04 1030				12-19-04 0930				12-20-04 0930				12-21-04 1030			
Analyst:	LM				LM				J				J				LM			
	°C	DO	pH	#D	°C	DO	pH	#D	°C	DO	pH	#D	°C	DO	pH	#D	°C	DO	pH	#D
Control A	20.0	8.4	7.6	0	20.7	7.7	7.7	0	21.2	7.9	7.6	0	20.9	8.2	7.4	0	20.9	8.0	7.4	0
Control B	20.0	8.4	7.6	0	20.6	8.0	7.7	0	21.0	7.8	7.4	0	21.0	7.9	7.3	0	20.9	7.8	7.3	0
400 mg/l A	19.9	8.5	7.6	0	20.7	7.9	7.6	0	21.1	8.1	7.4	0	21.0	7.7	7.3	0	21.0	8.1	7.3	0
400 mg/l B	19.8	8.5	7.5	0	20.6	8.0	7.5	0	21.0	7.9	7.4	0	21.0	8.0	7.2	0	20.9	7.9	7.3	0
750 mg/l A	19.7	8.6	7.5	0	20.6	7.9	7.3	0	21.0	7.1	7.4	0	20.9	7.7	7.2	0	20.8	7.6	7.3	0
750 mg/l B	19.6	8.5	7.5	0	20.5	8.1	7.3	0	20.9	8.1	7.4	0	20.9	7.8	7.2	0	20.7	8.2	7.2	0
Comments:	Extraction method: Mechanical shaking <u>X</u> . None (aqueous solution) <u>-</u> .																			

	CONTROL		HIGH CONCENTRATION	
	Alkalinity	Hardness	Alkalinity	Hardness
Initial	26 mg/l CaCO <sub>3</sub>	41 mg/l CaCO <sub>3</sub>	25 mg/l CaCO <sub>3</sub>	41 mg/l CaCO <sub>3</sub>
Final	26 mg/l CaCO <sub>3</sub>	40 mg/l CaCO <sub>3</sub>	25 mg/l CaCO <sub>3</sub>	40 mg/l CaCO <sub>3</sub>

**RESULTS**

Total Number Dead	
Control	0 / 20
400 mg/l	0 / 20
750 mg/l	0 / 20

✓ (one)	Result	Description
X	PASSED	LC50 > 750 mg/l (<40% dead in 750 mg/l conc.)
-	FAILED	≥40% dead in 750 mg/l (definitive test recommended)
-	FAILED	LC50 < 400 mg/l (>60% dead in 400 mg/l conc.)

**FATHEAD MINNOW HAZARDOUS WASTE  
SCREEN BIOASSAY**



Lab No.: AD4121602-002  
Client/ID: Del Mar 1110982-02

**TEST SUMMARY**

Species: *Pimephales promelas*.  
Fish length (mm): av: 26.2; min: 25; max: 28.  
Fish weight (gm): av: 0.29; min: 0.25; max: 0.37.  
Test chamber volume: 10 liters.  
Temperature: 20 +/- 2°C.  
Aeration: Single bubble through narrow bore tube.  
Number of replicates: 2.  
Dilution water: Soft reconstituted water (40 - 48 mg/l CaCO<sub>3</sub>).  
QA/QC Batch No.: RT-041205.

Source: In-lab culture.  
Regulations: CCR Title 22.  
Test Protocol: California F&G/DHS 1988.  
Endpoints: Survival at 96 hrs.  
Test type: Static.  
Feeding: None.  
Number of fish per chamber: 10.  
Photoperiod: 16/8 hrs light/dark.

**TEST DATA**

	INITIAL			24 Hr				48 Hr				72 Hr				96 Hr			
Date/Time:	12-17-04 1030			12-18-04 1030				12-19-04 0930				12-20-04 0930				12-21-04 1030			
Analyst:																			
	°C	DO	pH	°C	DO	pH	#D	°C	DO	pH	#D	°C	DO	pH	#D	°C	DO	pH	#D
Control A	20.0	8.4	7.6	20.7	7.7	7.7	0	21.2	7.9	7.6	0	20.9	8.2	7.4	0	20.9	8.0	7.4	0
Control B	20.0	8.4	7.6	20.6	8.0	7.7	0	21.0	7.8	7.4	0	21.0	7.9	7.3	0	20.9	7.8	7.3	0
400 mg/l A	19.9	8.5	7.9	20.8	8.2	7.4	0	21.2	8.2	7.3	0	20.9	7.6	7.1	0	21.0	7.6	7.1	0
400 mg/l B	19.8	8.6	7.9	20.7	7.9	7.3	0	21.1	7.4	7.3	0	20.9	7.2	7.2	0	20.8	7.2	7.1	0
750 mg/l A	19.7	8.4	7.9	20.7	7.7	7.3	0	21.4	7.1	7.3	0	20.8	7.2	7.2	0	20.8	6.7	7.0	0
750 mg/l B	19.6	8.5	7.9	20.6	8.3	7.3	0	20.9	7.2	7.3	0	20.8	7.3	7.1	0	20.7	7.9	7.1	0
Comments:	Extraction method: Mechanical shaking <u>X</u> . None (aqueous solution) <u>-</u> .																		

	CONTROL		HIGH CONCENTRATION	
	Alkalinity	Hardness	Alkalinity	Hardness
Initial	216 mg/l CaCO <sub>3</sub>	41 mg/l CaCO <sub>3</sub>	29 mg/l CaCO <sub>3</sub>	44 mg/l CaCO <sub>3</sub>
Final	216 mg/l CaCO <sub>3</sub>	40 mg/l CaCO <sub>3</sub>	33 mg/l CaCO <sub>3</sub>	48 mg/l CaCO <sub>3</sub>

**RESULTS**

Total Number Dead	
Control	0 / 20
400 mg/l	0 / 20
750 mg/l	0 / 20

✓ (one)	Result	Description
X	PASSED	LC50 > 750 mg/l (<40% dead in 750 mg/l conc.)
—	FAILED	≥40% dead in 750 mg/l (definitive test recommended)
—	FAILED	LC50 < 400 mg/l (>60% dead in 400 mg/l conc.)

**FATHEAD MINNOW HAZARDOUS WASTE  
SCREEN BIOASSAY**



Lab No.: AC4121602-003

Client/ID: Del Mar INC 0982-03

**TEST SUMMARY**

Species: *Pimephales promelas*.  
 Fish length (mm): av: 26.2; min: 25; max: 28.  
 Fish weight (gm): av: 0.29; min: 0.25; max: 0.37.  
 Test chamber volume: 10 liters.  
 Temperature: 20 +/- 2°C.  
 Aeration: Single bubble through narrow bore tube.  
 Number of replicates: 2.  
 Dilution water: Soft reconstituted water (40 - 48 mg/l CaCO<sub>3</sub>).  
 QA/QC Batch No.: RT-041205.

Source: In-lab culture.  
 Regulations: CCR Title 22.  
 Test Protocol: California F&G/DHS 1988.  
 Endpoints: Survival at 96 hrs.  
 Test type: Static.  
 Feeding: None.  
 Number of fish per chamber: 10.  
 Photoperiod: 16/8 hrs light/dark.

**TEST DATA**

	INITIAL			24 Hr				48 Hr				72 Hr				96 Hr			
Date/Time:	<u>12-17-04 1030</u>			<u>12-18-04 1030</u>				<u>12-19-04 0930</u>				<u>12-20-04 0930</u>				<u>12-21-04 1030</u>			
Analyst:	<u>[Signature]</u>			<u>[Signature]</u>				<u>[Signature]</u>				<u>[Signature]</u>				<u>[Signature]</u>			
	°C	DO	pH	°C	DO	pH	# D	°C	DO	pH	# D	°C	DO	pH	# D	°C	DO	pH	# D
Control A	20.0	8.4	7.6	20.7	7.7	7.7	0	20.2	7.9	7.4	0	20.9	8.2	7.4	0	20.9	8.0	7.4	0
Control B	20.0	8.4	7.6	20.6	8.0	7.7	0	21.0	7.8	7.4	0	21.0	7.9	7.3	0	20.9	7.8	7.3	0
400 mg/l A	19.8	8.4	7.9	20.9	7.8	7.2	0	21.1	7.7	7.2	0	21.2	7.7	7.1	0	20.9	7.8	7.1	0
400 mg/l B	19.7	8.5	7.9	20.8	7.8	7.2	0	21.0	7.2	7.2	0	20.8	7.3	7.1	0	20.8	7.2	7.1	0
750 mg/l A	19.6	8.5	8.0	20.7	7.4	7.5	0	20.9	7.4	7.3	0	20.8	7.0	7.0	0	20.7	8.1	7.1	0
750 mg/l B	19.5	8.6	8.1	20.7	7.9	7.4	0	20.9	7.2	7.3	0	20.7	7.4	7.0	0	20.7	7.5	7.1	0
Comments:	Extraction method: Mechanical shaking <input checked="" type="checkbox"/> . None (aqueous solution) <input type="checkbox"/> .																		

	CONTROL		HIGH CONCENTRATION	
	Alkalinity	Hardness	Alkalinity	Hardness
Initial	<u>26</u> mg/l CaCO <sub>3</sub>	<u>41</u> mg/l CaCO <sub>3</sub>	<u>29</u> mg/l CaCO <sub>3</sub>	<u>44</u> mg/l CaCO <sub>3</sub>
Final	<u>26</u> mg/l CaCO <sub>3</sub>	<u>40</u> mg/l CaCO <sub>3</sub>	<u>36</u> mg/l CaCO <sub>3</sub>	<u>50</u> mg/l CaCO <sub>3</sub>

**RESULTS**

Total Number Dead	
Control	<u>0</u> /20
400 mg/l	<u>0</u> /20
750 mg/l	<u>0</u> /20

✓ (one)	Result	Description
<u>X</u>	<b>PASSED</b>	LC50 > 750 mg/l (<40% dead in 750 mg/l conc.)
<u>—</u>	<b>FAILED</b>	≥40% dead in 750 mg/l (definitive test recommended)
<u>—</u>	<b>FAILED</b>	LC50 < 400 mg/l (>60% dead in 400 mg/l conc.)