13 de marzo de 2007

Sr. Mario Soriano
Geological Engineering and Environmental
44 Venus Avenue,
Guaynabo, P.R 00965

Proyecto	:	Yauco Landfill (Expansion Project)
Título	:	Determinación de la capacidad del caliche (Juana Díaz Formation) para remover tóxicos en lixiviados
Localización	:	Bo. Barimas, Yauco P.R.
Compañía	:	L.M Wastes

Estimado señor Soriano:

Adjunto le envió el estatus actual de los análisis que estamos realizando a las muestras de lixiviados y caliche (Juana Díaz Formation) recibidas el 27 de febrero del 2007 en el laboratorio de AES International Inc.

1. **El alcance de este trabajo**

El alcance de este trabajo es para realizar una investigación inicial relacionada a las propiedades de intercambio iónico de de una muestra de sales calcáreas (caliche) colectada en la formación de Juana Díaz. Esta investigación esta relacionada al proyecto de expansión del Vertedero de Yauco.

Este trabajo incluye el análisis de las siguientes tres (3) muestras:

a. Muestra inicial de desperdicio liquido colectada en el vertedero de Yauco(Identificada como muestra#1: Muestra de Lixiviado sin tratar con el caliche): Se realizará el análisis de los analitos claves (TAL-24 Metales) y la de los compuestos claves (TCL-volátiles orgánicos, semi-volátiles, pesticidas y herbicidas) y RCI..
b. Muestra de desperdicio arriba mencionada **(ver sección a)** después de estar en contacto por cuatro (4) días con la muestra de sales calcáreas (caliche) colectada en la formación de Juana Díaz. Se realizará el análisis de los analitos claves (TAL-23 metales) y la de los compuestos claves (TCL-volátiles orgánicos, semi-volátiles, pesticidas y herbicidas) y RCI.
c. Muestra de sales calcáreas (caliche) colectada en la formación de Juana Díaz: Se realizara el análisis de Difracción de Rayos X a toda la muestra y la fracción de barro, además se le realizara el análisis de EDX para determinar los elementos presentes en esta muestra.

Leyenda:
TAL= Inorganic Analyte List for metals PCB=Polichlorinated Biphenyls
TLC= Target Compound List
RCI= Reactivity, Corrosivity and Ignitiability
EDX=Electron Diffraction X Ray.

2. **Descripción del experimento:**

   a. Se determinó la densidad del lixiviado la cual fue 0.9873g/ml. Con esta información se determinó los gramos de lixiviados que hay en 4 litros. Se realizo el análisis con cuatro litros ya que es el volumen necesario para realizar los análisis al lixiviado.

Cálculo:

4 litros lixiviado (4000ml)/0.9734= 4109 gramos

   b. El caliche fue cernido para eliminar piedras y material de gran tamaño. Se pesaron 4109 gramos de caliche cernido con el propósito de establecer una proporción por peso de 50% caliche y 50% lixiviado.
   c. Los 4109 gramos de caliche cernido fueron depositados en una bandeja plástica y luego compactados.
   d. Se añadieron cuidadosamente los 4 litros del lixiviado en la bandeja conteniendo los 4109 gramos de caliche compactado creando de esta manera dos capas, la capa inferior de caliche y la capa superior del lixiviado. Se colocó una tapa sobre la bandeja plástica conteniendo el caliche y el lixiviado.
   e. La superficie del caliche compactado va a estar en contacto con el lixiviado.
   f. Al cabo de cuatro días se removió cuidadosamente el lixiviado del caliche.
   g. El lixiviado expuesto por cuatro días al caliche y el lixiviado sin exponer a este se le realizaron los siguientes análisis:
      1. TAL
      2. RCI
      3. Orgánicos Volátiles y Semi-volátiles
      4. PCB
      5. Herbicidas y Pesticidas

3. Métodos Analíticos:
   a. TAL: -200.7, 245.1
   b. RCI- 376.2, 335.2,150.1
   c. Orgánicos Volátiles y Semi-volátiles
   d. PCB: 8082
   e. Herbicidas y Pesticidas : 8150A, 8081[a]

Tabla 1: Análisis de Metales (Requeridos en lista TAL)

Analito	Resultado Muestra #1 (ug/L)	Resultado Muestra #2 (ug/L)	Diferencia
Plata	0.002	0.067	-0.065
Aluminio	3.87	1.51	2.36
Arsénico	0.051	0.177	-0.13
Boro	6.054	6.22	-0.16
Bario	0.003	No Detectado	--
Berilio	No Detectado	No Detectado	--
Cadmio	0.0008	0.002	--
Cobalto	0.354	0.544	-0.19
Cromio	0.1702	0.291	-0.12
Cobre	0.1358	0.080	0.06
Hierro	1.569	4.52	-2.96
Manganeso	0.130	0.233	-0.10
Niquel	1.009	1.38	-0.37
Plomo	No Detectado	0.012	--
Antimonio	0.0093	0.023	-0.01
Selenio	No Detectado	No Detectado	--
Talio	No Detectado	No Detectado	--
Vanadio	0.0631	0.799	-0.74
Zinc	No Detectado	0.210	--
Calcio	33.0	54.9	-21.9
Potasio	579	1,081	-502
Magnesio	406	873	-467
Mercurio	No Detectado	No Detectado	--
Sodio	3,777	8,343	4,566

Tabla 2: Análisis de Componentes Orgánicos requeridos en lista de TCL.

Analito	Resultado Muestra #1	Resultado Muestra #2	Diferencia
PCB	No detectado	No detectado	
Organics Volatiles	No detectado	No detectado	
Organics Semi-Volatiles	No detectado	No detectado	
Herbicides	No detectado	No detectado	
Pesticides	No detectado	No detectado	

Tabla#3: Análisis requeridos en RCI

Analito	Resultado Muestra #1	Resultado Muestra #2	Diferencia
Cianuro	No detectado	No detectado	
Sulfide	No detectado	No detectado	
pH	8.5	9.5	1.0

Conclusión:

Basada en la data recopilada hasta ahora no se puede demostrar la capacidad del caciche en eliminar sustancias toxicas del lixiviado.

Debido a no haber presencia de tóxicos orgánicos en el lixiviado original (muestra#1) no se pudo evaluar la capacidad del caliche para eliminar este tipo de toxico del lixiviado.

Nota: Estos resucitados son preliminares, los resultados finales serán generados próximamente. De tener alguna duda o necesitar mas información se puede comunicar con este servidor al teléfono 787-722-0220

Atentamente,

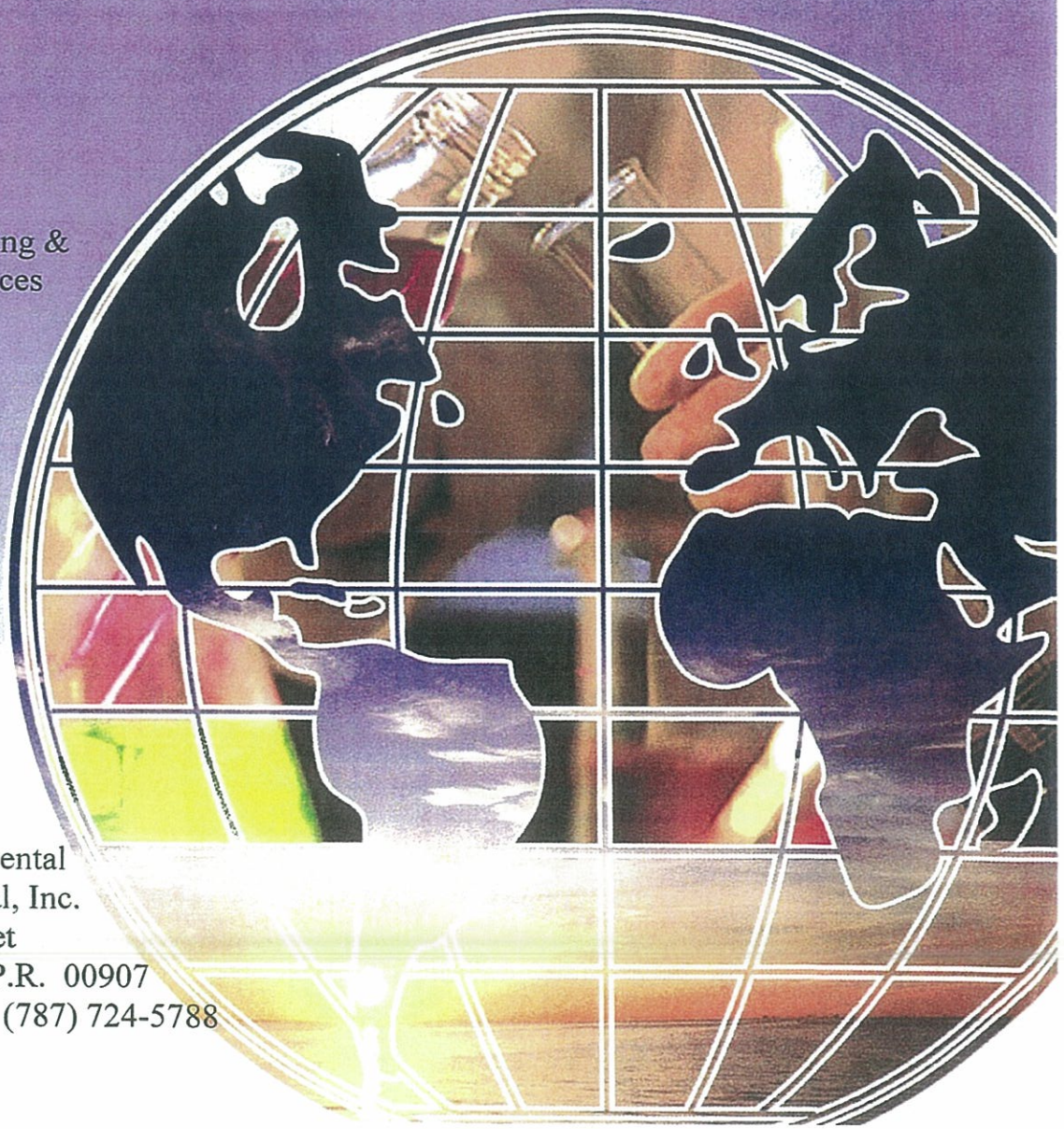
Lcdo. Francis W. Martínez
Gerente de Laboratorio AES International Inc.

Nota: Estos resultados no son oficiales, los resultados oficiales serán sometidos en el reporte analítico preparado por AES Internacional, Inc.

INITIAL INVESTIGATION RELATED TO ION EXCHANGE PROPERTIES OF A SILTY CALCAREOUS SAMPLE COLLECTED FROM JUANA DIAZ FORMATION AT YAUCO LANDFILL EXPANSION PROJECT

Prepared For:
Geological engineering &
Environmental Services

April, 2007



Prepared By:

Analytical Environmental
Services International, Inc.
611 Monserrate Street
2nd Floor, Santurce, P.R. 00907
(787)722-0220 / Fax (787) 724-5788

AES International Inc.

ANALYTICAL RESULTS

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#611 Monserrate, 2nd. Floor, Santurce, P.R. 00907
Ph: (787) 722-0220 Fax: (787) 724-5788

Transmittal Sheet for Chemical Analysis

Client Name: Geological Engrng & Env
Address: 44 Venus Ave 650 PR 00965
Contact: Mario Soriano Rossy
Phone/Fax: 790-1818 787
787-203-2288

Project Name: Yauco Landfill (Expansion Project)
Site Location: Bo Barinas - Yauco PR
Samplers Name: Mario Soriano Rossy & Ray Gonzalez
Company: L.M. Waste

Chain of Custody Record

	SAMPLE I.D.	SAMPLE DESCRIPTION (i.e. Location, Name, etc.)	COLLECTED Date	COLLECTED Time	SAMPLE TYPE Comp.	SAMPLE TYPE Grab	SAMPLE TYPE Other	SAMPLE INFORMATION Preservative	SAMPLE INFORMATION No. of Containers	TAL	TCLP	RCI	organic volatiles	organic semi-8270	pesticides/PCB	herbicides	Remarks
176353	1	Landfill leacheate	2/23				✓		2 gal.	✓		✓	✓	✓	✓	✓	
354	2	TCLP from Juana Diaz Fm.					✓				✓	✓					
355	3	Static (geologic sample. Juana Diaz Fm.)					✓			✓		✓	✓	✓	✓	✓	
~~356~~ 176469	4	caliche Juana Diaz Fm.					✓		8 oz (1)								X ray diffraction

Turnaround Time: Normal: X Rush: ☐

Comments:

Sampling Witness:

Witness Company:

Relinquished By:	[signature]	**Date/Time**	2/27/07 17:00	**Delivered Directly to Lab:**	**Shipped:**
Received By:	Ady Rubin	**Date/Time**	2/27/07 17:00	**Method of Shipment:**	
Relinquished By:		**Date/Time**		**Lab. Recipient:**	
Received By:		**Date/Time**		**Date:**	

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NLLAP	102702
PAT	102702
ELAP	11583
NVLAP	200051-0
NELAP	PR00933

ANALYTICAL REPORT

Client : Geological Engineering & Environmental
44 Venus Ave. Guaynabo, Puerto Rico 00965
Project : Yauco Landfill (Expansion Project)
Lab Project # : PRC11497
Sample Type: Liquid
Lab I.D.# : 176353

Date Collected: 2/23/07
Date Received: 2/27/07
Date Analyzed: 3/1, 3/6/07
3/16/07

Sample I.D.	Sample Description	Analysis Performed	Results (mg/L)	PQL* (mg/L)	Method
1	Land Fill Leachate	Aluminium	3.87	0.004	EPA 200.7
		Antimony	0.009	0.002	EPA 200.7
		Arsenic	0.051	0.002	EPA 200.7
		Barium	0.003	0.001	EPA 200.7
		Beryllium	ND	0.0002	EPA 200.7
		Boron	6.05	0.150	EPA 200.7
		Cadmium	0.0008	0.0002	EPA 200.7
		Calcium	33.0	0.500	EPA 200.7
		Chromium	0.170	0.0002	EPA 200.7
		Cobalt	0.354	0.0003	EPA 200.7
		Copper	0.136	0.001	EPA 200.7
		Iron	1.57	0.002	EPA 200.7
		Lead	ND	0.001	EPA 200.7
		Magnesium	406	0.560	EPA 200.7
		Manganese	0.130	0.0002	EPA 200.7
		Mercury	ND	0.0003	EPA 7470A
		Nickel	1.01	0.0005	EPA 200.7
		Potassium	579	0.500	EPA 200.7
		Selenium	ND	0.004	EPA 200.7
		Silver	0.002	0.001	EPA 200.7
		Sodium	3,777	0.500	EPA 200.7
		Thallium	ND	0.002	EPA 200.7
		Vanadium	0.063	0.001	EPA 200.7
		Zinc	ND	0.005	EPA 200.7

*PQL - Practical Quantitation Limits
** ND - Not Detected / Results relate only to the items tested.
Analytical results met all quality control requirements of the test method. / Samples were received on acceptable conditions
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APPROVED BY : _____ DATE: 4/12/07
Mildred Santiago, Vice-President
Fabio W. Martínez, Laboratory Manager

REVIEWED BY _____ DATE: 4/12/07
Miriam Estrada, PR Certified Chemist

CERTIFICATE NO : _____

Estado Libre Asociado de P.R.
Miriam Estrada Rodríguez
Lic. #1074
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ANALYTICAL REPORT

Client :	Geological Engineering & Environmental	Date Collected:	2/23/07
	44 Venus Ave. Guaynabo, Puerto Rico 00965	Date Received:	2/27/07
Project :	Yauco Landfill (Expansion Project)	Date Analyzed:	3/1, 3/16/07
Lab Project # :	PRC11497		3/21/07
Sample Type:	Liquid		
Lab I.D.# :	176355		Page 2 of 2

Sample I.D.	Sample Description	Analysis Performed	Results (mg/L)	PQL* (mg/L)	Method
3	Static (geologic sample) Juana Díaz	Aluminium	1.51	0.004	EPA 200.7
		Antimony	0.023	0.002	EPA 200.7
		Arsenic	0.177	0.002	EPA 200.7
		Barium	ND	0.001	EPA 200.7
		Beryllium	ND	0.0002	EPA 200.7
		Boron	6.22	0.150	EPA 200.7
		Cadmium	0.002	0.0002	EPA 200.7
		Calcium	54.9	0.500	EPA 200.7
		Chromium	0.291	0.0002	EPA 200.7
		Cobalt	0.544	0.0003	EPA 200.7
		Copper	0.080	0.001	EPA 200.7
		Iron	4.52	0.002	EPA 200.7
		Lead	0.012	0.001	EPA 200.7
		Magnesium	873	1.40	EPA 200.7
		Manganese	0.233	0.0002	EPA 200.7
		Mercury	ND	0.0003	EPA 7470A
		Nickel	1.38	0.0005	EPA 200.7
		Potassium	1,081	0.500	EPA 200.7
		Selenium	ND	0.004	EPA 200.7
		Silver	0.067	0.001	EPA 200.7
		Sodium	8,343	0.500	EPA 200.7
		Thallium	ND	0.002	EPA 200.7
		Vanadium	0.799	0.001	EPA 200.7
		Zinc	0.210	0.005	EPA 200.7

*PQL - Practical Quantitation Limits
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Francis W. Martínez, Laboratory Manager

REVIEWED BY : _____ DATE: 4/12/07
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CERTIFICATE NO : _____

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ELAP	11583
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NELAP	PR00933

ANALYTICAL REPORT

Client : Geological Engineering & Environmental
44 Venus Ave. Guaynabo, Puerto Rico 00965

Date Collected: 2/23/07
Date Received: 2/27/07

Project : Yauco Landfill (Expansion Project)

Date Analyzed: 2/28/07
3/6, 3/12, 3/19, 3/20/07

Lab Project # : PRC11497
Sample Type: Liquid
Lab I.D.# : 176353

Sample I.D. #:	Sample Description	Analysis	Results	Units	*P.Q.L	Method
1	Landfill Leachate	**Reactivity**				
		Reactive Cyanide	ND	mg/kg	1.8	SW-846
		Reactive Sulfide	51.3	mg/kg	20.0	SW-846
		Ingnitability				
		Flash Point	>140	°F	140	1010
		Corrosivity	8.50	S.U.	0.10	SW 9045

*Practical Quantitation Limit
ND - Not Detected
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ANALYTICAL REPORT

Client : Geological Engineering & Environmental
44 Venus Ave. Guaynabo, Puerto Rico 00965

Date Collected: 2/23/07
Date Received: 2/27/07
Date Analyzed: 2/28/07
3/6, 3/12, 3/19, 3/20/07

Project : Yauco Landfill (Expansion Project)

Lab Project # : PRC11497

Sample Type: Liquid

Lab I.D.# : 176355

Sample I.D. #:	Sample Description	Analysis	Results	Units	*P.Q.L	Method
3	Static (geologic sample) Juana Díaz	**Reactivity**				
		Reactive Cyanide	ND	mg/kg	1.8	SW-846
		Reactive Sulfide	51.3	mg/kg	20.0	SW-846
		Ingnitability Flash Point	>140	°F	140	1010
		Corrosivity	9.50	S.U.	0.10	SW 9045

*Practical Quantitation Limit
ND - Not Detected
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Francis W. Martínez, Laboratory Manager

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NLLAP	10272
PAT	10272
ELAP	11583
NVLAP	200051-0
NELAP	PR00933

ANALYTICAL REPORT

Client : Geological Engineering & Environmental
44 Venus Ave. Guaynabo, Puerto Rico 00965
Project : Yauco Landfill (Expansion Project)
Lab Project # : PRC11497
Sample Type: Liquid

Date Collected: 2/23/07
Date Received: 2/27/07
Date Analyzed: 3/7/07

Sample I.D.	Laboratory I.D.	Sample Description	Analysis Performed	Results	Units	PQL*	Method
1	176353	Landfill Leachate	**Volatile Organics**				
			Dichlorodifluoromethane	ND	ug/L	25	EPA 8260B
			Vinyl Chloride	ND	ug/L	25	EPA 8260B
			Chloromethane	ND	ug/L	25	EPA 8260B
			Bromomethane	ND	ug/L	25	EPA 8260B
			Chlroethane	ND	ug/L	25	EPA 8260B
			Trichlorofluoromethane	ND	ug/L	25	EPA 8260B
			Acrolein	ND	ug/L	130	EPA 8260B
			Acetone	140	ug/L	130	EPA 8260B
			1,1-Dichloroethylene	ND	ug/L	25	EPA 8260B
			Iodomethane	ND	ug/L	25	EPA 8260B
			Carbon Disulfide	ND	ug/L	130	EPA 8260B
			Methylene Chloride	ND	ug/L	25	EPA 8260B
			Acrylonitrile	ND	ug/L	130	EPA 8260B
			Methyl-Tert-Butyl-Ether	ND	ug/L	25	EPA 8260B
			trans-1,2-Dichloroethylene	ND	ug/L	25	EPA 8260B
			1,1-Dicholoroethane	ND	ug/L	25	EPA 8260B
			Vinyl Acetate	ND	ug/L	130	EPA 8260B
			2-Butanone-(MEK)	ND	ug/L	130	EPA 8260B
			2,2-Dichloropropane	ND	ug/L	25	EPA 8260B
			cis-1,2-Dichloroethylene	ND	ug/L	25	EPA 8260B
			Chloroform	ND	ug/L	25	EPA 8260B
			Bromochloromethane	ND	ug/L	25	EPA 8260B
			1,1,1-Trichloroethane	ND	ug/L	25	EPA 8260B
			1,1-Dichloropropene	ND	ug/L	25	EPA 8260B
			Carbon Tetrachloride	ND	ug/L	25	EPA 8260B

ND- Not Detected / *PQL - Practical Quantitation Limit.
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Samples were received on acceptable conditions.

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Mildred Santiago, Vice-President
Francis W. Martinez, Laboratory Manager

REVIEWED BY _____ DATE: 4/12/07
Miriam Estrada, Certified Chemist

CERTIFICATE NO : _____

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NLLAP	10272
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ANALYTICAL REPORT

Client : Geological Engineering & Environmental
44 Venus Ave. Guaynabo, Puerto Rico 00965
Project : Yauco Landfill (Expansion Project)
Lab Project # : PRC11497
Sample Type: Liquid

Date Collected: 2/23/07
Date Received: 2/27/07
Date Analyzed: 3/7/07

Sample I.D.	Laboratory I.D.	Sample Description	Analysis Performed	Results	Units	PQL*	Method
1	176353	Landfill Leachate	Benzene	ND	ug/L	25	EPA 8260B
			1,2-Dichloroethane	ND	ug/L	25	EPA 8260B
			Trichloroethylene	ND	ug/L	25	EPA 8260B
			1,2-Dichloropropane	ND	ug/L	25	EPA 8260B
			4-Methyl-2-Pentanone (MIBK)	ND	ug/L	130	EPA 8260B
			2-Chloroethyl vinyl ether	ND	ug/L	130	EPA 8260B
			cis-1,3-Dichloropropene	ND	ug/L	25	EPA 8260B
			Toluene	ND	ug/L	25	EPA 8260B
			trans-1,3-Dichloropropene	ND	ug/L	25	EPA 8260B
			Bromodichloromethane	ND	ug/L	25	EPA 8260B
			Dibromomethane	ND	ug/L	25	EPA 8260B
			1,1,2-Trichloroethane	ND	ug/L	25	EPA 8260B
			1,2-Dibromoethane	ND	ug/L	25	EPA 8260B
			2-Hexanone	ND	ug/L	130	EPA 8260B
			1,3-Dichloropropane	ND	ug/L	25	EPA 8260B
			Tetrachloroethylene	ND	ug/L	25	EPA 8260B
			Dibromochloromethane	ND	ug/L	25	EPA 8260B
			Chlorobenzene	ND	ug/L	25	EPA 8260B
			1,1,1,2-Tetrachlorethane	ND	ug/L	25	EPA 8260B
			Ethylbenzene	ND	ug/L	25	EPA 8260B
			M&P-Xylene	ND	ug/L	50	EPA 8260B
			O-Xylene	ND	ug/L	25	EPA 8260B
			Styrene	ND	ug/L	25	EPA 8260B
			Bromoform	ND	ug/L	25	EPA 8260B
			Isopropylbenzene	ND	ug/L	25	EPA 8260B
			1,1,2,2-Tetrachlorethane	ND	ug/L	25	EPA 8260B

ND- Not Detected / *PQL - Practical Quantitation Limit.
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Francis W. Martinez, Laboratory Manager

REVIEWED BY _____ DATE: 4/12/07
Miriam Estrada Rodriguez, Certified Chemist

CERTIFICATE NO : Lic. #1074

Estado Libre Asociado de P.R. QUIMICO LICENCIADO

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
611 Monserrate Street
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Santurce, Puerto Rico 00907
Ph. (787) 722-0220
Fax (787) 724-5788

NLLAP	10272
PAT	10272
ELAP	11583
NVLAP	200051-0
NELAP	PR00933

ANALYTICAL REPORT

Client : Geological Engineering & Environmental
44 Venus Ave. Guaynabo, Puerto Rico 00965
Project : Yauco Landfill (Expansion Project)
Lab Project # : PRC11497
Sample Type: Liquid

Date Collected: 2/23/07
Date Received: 2/27/07
Date Analyzed: 3/7/07

Sample I.D.	Laboratory I.D.	Sample Description	Analysis Performed	Results	Units	PQL*	Method
1	176353	Landfill Leachate	1,2,3-Trichloropropane	ND	ug/L	25	EPA 8260B
			n-Propylbenzene	ND	ug/L	25	EPA 8260B
			trans-1,4-Dichloro-2-butene	ND	ug/L	25	EPA 8260B
			Bromobenzene	ND	ug/L	25	EPA 8260B
			2-Chlorotoluene	ND	ug/L	25	EPA 8260B
			1,3,5-Trimethylbenzene	ND	ug/L	25	EPA 8260B
			4-Chlorotoluene	ND	ug/L	25	EPA 8260B
			tert-Butylbenzene	ND	ug/L	25	EPA 8260B
			1,2,4-Trimethylbenzene	ND	ug/L	25	EPA 8260B
			sec-Butylbenzene	ND	ug/L	25	EPA 8260B
			4-Isopropyltoluene	ND	ug/L	25	EPA 8260B
			1,3-Dichlorobenzene	ND	ug/L	25	EPA 8260B
			1,4-Dichlorobenzene	ND	ug/L	25	EPA 8260B
			n-Butylbenzene	ND	ug/L	25	EPA 8260B
			1,2-Dichlorobenzene	ND	ug/L	25	EPA 8260B
			1,2-Dibromo-3-Chloropropane	ND	ug/L	25	EPA 8260B
			1,2,4-Trichlorobenzene	ND	ug/L	25	EPA 8260B
			Hexachlorobutadiene	ND	ug/L	25	EPA 8260B
			Naphthalene	ND	ug/L	25	EPA 8260B
			1,2,3-Trichlorobenzene	ND	ug/L	25	EPA 8260B

ND- Not Detected / *PQL - Practical Quantitation Limit.
This test report can not be reproduced except in full, without written approval of AES International, Inc.
Analytical results met all quality control requirements of the test method. Results relate only to the items tested.
Samples were received on acceptable conditions.

APPROVED BY : _____ DATE: 4/12/07
Mildred Santiago, Vice-President
Francis W. Martinez, Laboratory Manager

REVIEWED BY _____ DATE: 4/12/07
Miriam Estrada, PR Certified Chemist

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ANALYTICAL REPORT

Client : Geological Engineering & Environmental
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Project : Yauco Landfill (Expansion Project)
Lab Project # : PRC11497
Sample Type: Liquid

Date Collected: 2/23/07
Date Received: 2/27/07
Date Analyzed: 3/14/07

Sample I.D.	Laboratory I.D.	Sample Description	Analysis Performed	Results	Units	PQL*	Method
3	176355	Static (geologic sample) Juana Díaz	**Volatile Organics**				
			Dichlorodifluoromethane	ND	ug/L	5.0	EPA 8260B
			Vinyl Chloride	ND	ug/L	5.0	EPA 8260B
			Chloromethane	ND	ug/L	5.0	EPA 8260B
			Bromomethane	ND	ug/L	5.0	EPA 8260B
			Chloroethane	ND	ug/L	5.0	EPA 8260B
			Trichlorofluoromethane	ND	ug/L	5.0	EPA 8260B
			Acrolein	ND	ug/L	25	EPA 8260B
			Acetone	84.2	ug/L	25	EPA 8260B
			1,1-Dichloroethylene	ND	ug/L	5.0	EPA 8260B
			Iodomethane	ND	ug/L	5.0	EPA 8260B
			Carbon Disulfide	ND	ug/L	5.0	EPA 8260B
			Methylene Chloride	199	ug/L	5.0	EPA 8260B
			Acrylonitrile	ND	ug/L	25	EPA 8260B
			Methyl-Tert-Butyl-Ether	ND	ug/L	5.0	EPA 8260B
			trans-1,2-Dichloroethylene	ND	ug/L	5.0	EPA 8260B
			1,1-Dicholoroethane	ND	ug/L	5.0	EPA 8260B
			Vinyl Acetate	ND	ug/L	25	EPA 8260B
			2-Butanone-(MEK)	ND	ug/L	25	EPA 8260B
			2,2-Dichloropropane	ND	ug/L	5.0	EPA 8260B
			cis-1,2-Dichloroethylene	ND	ug/L	5.0	EPA 8260B
			Chloroform	ND	ug/L	5.0	EPA 8260B
			Bromochloromethane	ND	ug/L	5.0	EPA 8260B
			1,1,1-Trichloroethane	ND	ug/L	5.0	EPA 8260B
			1,1-Dichloropropene	ND	ug/L	5.0	EPA 8260B
			Carbon Tetrachloride	ND	ug/L	5.0	EPA 8260B

ND- Not Detected / *PQL - Practical Quantitation Limit.
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