Land-Tech
LANDFILL TECHNOLOGIES OF ARECIBO, LLC.

July 1, 2015.

Donald Frankel
Senior Counsel
Environmental Enforcement Section
Department of Justice
Suite 616
One Gateway Center
Newton, MA 02458
By email to donald.frankel@usdoj.gov and certified mail number 7014 3490 0001 0880 4311.

RE: RCRA ANNUAL REPORT
UNITED STATES V. LANDFILL TECHNOLOGIES OF ARECIBO, CORP.
CONSENT DECREE CIVIL NO. 3:14-CV-01438;
DOJ CASE NO. 90-5-2-1-09629).

Dear Mr. Frankel:

Pursuant to Section VII, RCRA Improvements, of the Consent Decree Civil No. 3:14-cv-01438, Landfill Technologies of Arecibo, LLC[1] (LTA), submits the following information:

1. Preceding year's analytical results from any required periodic groundwater monitoring (*Exhibit 1*)
2. Summary Report of monitoring of installed inclinometers and observation wells (*Exhibit 2*).

[1] Previously, Landfill Technologies of Arecibo, Corp.

As established in paragraph 41 of Section VII, RCRA Improvements, the Municipality of Arecibo is responsible for the compliance with the Financial Assurance for the closure and post closure care of the Arecibo Landfill.

If additional information is required, please don't hesitate to contact LTA at your convince at 787-273-7639 or via email, Javier Vazquez, Esq. jvazquez@landfillpr.com; Maribelle Marrero, mmarrero@landfillpr.com.

Best Regards,

Javier J. Vázquez Bravo, ESQ.
Vice-president of Operations

Cc. United States Department of Justice,
Chief Environmental Enforcement Section

EPA, CAA

EPA RCRA,
Carl Plössl;

EPA ORC,
Carolina Jordan-Garcia, Esq.;
Correo certificado núm. 7014 3490 0001 0880 4182

EQB,
Eng. Luis Sierra;

PRLA,
Alberto L. Ramos.

Arecibo Municipality
Mayor

EXHIBIT 1

Land-Tech

21 de mayo de 2015

Sra. Lorna Rodríguez
Gerente Interino
Área Control de Contaminación de Terrenos
Junta de Calidad Ambiental
Apartado 11488
San Juan, Puerto Rico 00910

RE: REPORTE DE RESULTADOS DE MONITORIA AGUA SUBTERRÁNEA SISTEMA DE RELLENO SANITARIO DE ARECIBO ABRIL 2015

Estimada señora Rodríguez:

Adjunto para su evaluación está el Informe de Resultados de Monitoreo de Aguas Subterráneas del Sistema de Relleno Sanitario de Arecibo realizado en en el mes de abril de 2015.

Cualquier duda al respecto favor de comunicarse con quien suscribe al (787) 533-8673.

Cordialmente,

Yurima Pérez Rosell
Técnico Ambiental
Landfill Technologies, LLC.

Bo. Mamey, Carretera 189 km. 9.0, Gurabo, PR • P.O. Box 1322 Gurabo, PR 00778 • Tel. (787) 273-7639 • Fax (787) 687-0337

RESULTADOS DE MONITORIA DE AGUA SUBTERRANEA PARA EL PERIODO DE ABRIL DE 2015 SISTEMA DE RELLENO SANITARIO ARECIBO, PUERTO RICO

RESULTADOS DE MONITORIA DE AGUA SUBTERRANEA
PARA EL PERIODO DE ABRIL DE 2015
SISTEMA DE RELLENO SANITARIO (SRS) MUNICIPAL
ARECIBO, PUERTO RICO

ABRIL 2015

Preparado para:

LANDFILL TECHNOLOGIES, CORP.
PO BOX 1322
GURABO, PR 00778

Land-Tech

Preparado por:

GROUNDWATER & ENVIRONMENTAL SERVICES OF PUERTO RICO, LLC
1550 AVENIDA PONCE DE LEÓN, PARADA 23, PISO 2, SANTURCE
SAN JUAN, PUERTO RICO 00909-1725

INFORME FINAL

GES PR

RESULTADOS DE MONITORIA DE AGUA SUBTERRANEA PARA EL PERIODO DE ABRIL DE 2015 SISTEMA DE RELLENO SANITARIO (SRS) DE ARECIBO, PUERTO RICO

Proyecto GESPR Número: 7100830

ABRIL 2015

Efraín Camis Rosado, REM
Senior Project Manager

Isidro M Perera Armas
Site Operations Manager

Luis A. García Rivera, PE
QA/QC Reviewer

DECLARACIÓN DE CONFIDENCIALIDAD Y DIVULGACIÓN

Este documento no será reproducido, copiado, prestado, o transferido a cualquier persona, directamente o indirectamente, o electrónicamente, entera o parcialmente, o utilizado para algún propósito con excepción para el cual se produjo específicamente sin el previo consentimiento escrito de Groundwater & Environmental Services of Puerto Rico, LLC.

Groundwater & Environmental Services of Puerto Rico, LLC

20 de abril de 2015

Ing. Yurima Pérez
Oficial de Cumplimiento
Landfill Technologies Corp.
PO BOX 1322
Gurabo, PR 00778

RE: RESULTADOS DE MONITORIA DE AGUA SUBTERRANEA PARA EL PERIODO DE ABRIL DE 2015 – SISTEMA DE RELLENO SANITARIO (SRS) DE ARECIBO, PR

INTRODUCCIÓN

Adjunto los resultados para el periodo de abril del año 2015, según el "Plan Aprobado de Monitoria de Agua Subterránea" entre la Junta de Calidad Ambiental (JCA) y Landfill Technologies, Corp. (LTC) para el SRS en el 1999. El plan de monitoria es realizado para estar en cumplimiento con el Reglamento para el Manejo de los Desperdicios Sólidos No Peligrosos. Este reglamento requiere que se establezca un programa de monitoria el cual pueda detectar la presencia de 45 Compuestos Orgánicos Volátiles (COV's) y 15 metales. La concentración mayor sobre el límite máximo de contaminación permisible (MCL, por sus siglas en inglés) requiere la preparación de un plan de acción correspondiente. A estos fines estos reportes son analizados para determinar la presencia y recomendar acciones, si son necesarias, para mantener el sistema de monitoreo en óptimas condiciones.

La **Figura 1** presenta la ubicación del SRS en el cuadrángulo del Servicio Geológico Federal (USGS, por sus siglas en inglés) para el área de Arecibo. Incluido en dicha figura se encuentra una foto aérea de la propiedad donde ubica el SRS para referencia visual.

El monitoreo aprobado para el SRS requiere que se colecten muestras de cinco pozos de monitoreo de agua subterráneas. El sistema de monitoria se compone, como mínimo, de un pozo de agua subterránea gradiente arriba y cuatro pozos de monitoreo aguas abajo del SRS. El sistema se muestrea de acuerdo al Plan de Trabajo Aprobado por la JCA el cual describe en detalle la geología, hidrogeología, protocolos de las actividades de campo, laboratorio y reporte a la JCA.

El monitoreo de aguas se llevó a cabo el día 15 de abril de 2015 por personal de Groundwater & Environmnetal Services of Puerto Rico LLC (GESPR) con adiestramiento en HAZWOPER y con equipo de seguridad personal nivel D (capacete, chaleco reflector, gafas de seguridad, botas con punta de acero y guantes desechables de nitrilo). Previo al desarrollo y colección de muestras se completó una tabla de datos de cada pozo que incluyen: profundidad del agua y parámetros de muestreo de calidad de campo con equipo de muestreo calibrado para estos fines. El **Anejo 1** incluye la hoja de datos de campo para cada pozo.

ALCANCE DE LOS TRABAJOS

La localización de los pozos muestreados en el SRS se presenta en la **Figura 2**. Cada pozo fue debidamente identificado, desarrollado y muestreado según el plan aprobado. Las muestras fueron colectadas con duplicados para análisis de Orgánicos Volátiles utilizando el Método 8260 para VOC's y para metales por el Método 6010, ambos de la EPA. El **Anejo 2** incluye la cadena de custodia (COC, por sus siglas en inglés). El **Anejo 3** presenta los resultados de laboratorio debidamente certificados de Pace Analytical ubicado en Guaynabo, Puerto Rico.

La **Tabla 1** presenta los resultados obtenidos para los compuestos orgánicos volátiles. La **Tabla 2** presenta los resultados obtenidos para metales.

RESULTADOS

VOLÁTILES

Según se presenta en la **Tabla 1** para Compuestos Orgánicos Volátiles (COV's), los resultados de todos los parámetros fueron no detectados (ND) para las muestras de agua de los pozos W-1, W-2, W-3, W-4 y W-5. El sistema de monitoreo no ha presentado resultados significativos de volátiles durante los años 2014 y 2015.

METALES

Concentraciones de metales fueron detectadas en algunas de las muestras según presenta la **Tabla 2**. Sin embargo, ninguna de estas concentraciones sobrepasaron los niveles máximos de contaminación establecidos por EPA.

RECOMENDACIONES

Basado en las tareas realizadas y los resultados obtenidos recomendamos lo siguiente:

- Continuar con el programa de monitoria de agua subterránea;
- Preparar un reporte estadístico de valores históricos para metales y concentraciones naturales de metales para los suelos del SRS. De esta forma se podrá establecer si las concentraciones de metales que se mantienen presente son el producto de la interacción del suelo con el nivel freático o si las mismas representan la presencia de lixiviados. Dependiendo de los resultados, se recomendará la preparación de un plan de acción.

Atentamente,

Groundwater & Environmental Services of PR, LLC.

Isidro M. Perera Armas
Site Operations Manager

TABLAS

TABLA 1
SRS ARECIBO
RESULTADOS ANALITICOS PARA - COV'S EN (MG/L)
METODO 8260
ABRIL DE 2015

PARAMETRO DE ANALISIS			MUESTRAS QA/QC			MUESTRAS DE AGUA DE POZOS										
						G.ARRIBA		POZOS DE CUMPLIMIENTO								
NOMBRE	CAS NO.	MCL	TB	FB	EB	W-1-1[1]	W-1-2[2]	W-2-1[3]	W-2-2[4]	W-3-1[5]	W-3-2[6]	W-4-1[7]	W-4-2[8]	W-5-1[9]	W-5-2[10]	RL (mg/L)
DICHLORODIFLUOROMETHANE	75-71-8	***	ND	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
CHLOROMETHANE	74-87-3	0.200	ND	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
VINYL CHLORIDE	75-01-4	0.002	ND	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
BROMOMETHANE	74-83-9	0.050	ND	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
CHLOROETHANE	75-00-3	***	ND	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
TRICHLOROFLUOROMETHANE	75-69-4	***	ND	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
METHYLENE CHLORIDE	75-09-2	0.005	ND	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
1,1-DICHLOROETHENE	75-35-4	0.007	ND	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
TRANS-1,2-DICHLOROETHENE	156-60-5	***	ND	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
1,1-DICHLOROETHANE	75-34-3	0.007	ND	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
CIS 1,2-DICHLOROETHENE	156-59-2	***	ND	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
CHLOROFORM	67-66-3	0.005	ND	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
1,1,1-TRICHLOROETHANE	71-55-6	0.0002	ND	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
CARBON TETRACHLORIDE	56-23-5	0.005	ND	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
BEBZENE	71-43-2	0.005	ND	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
1,2-DICHLOROETHANE	107-06-2	0.005	ND	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
TRICHLOROETHENE	79-01-6	0.002	ND	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
1,2-DICHLOROPROPANE	78-87-5	***	ND	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
BROMODICHLOROMETHANE	75-27-4	***	ND	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
TRANS-1,3-DICHLOROPROPENE	10061-02-6	***	ND	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
TOLUENE	108-88-3	1.000	ND	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
CIS-1,3-DICHLOROPROPENE	10061-01-5	***	ND	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
1,1,2-TRICHLOROETHANE	79-00-5	0.005	ND	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
TETRACHLOROETHENE	127-18-4	***	ND	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
DIBROMOCHLOROMETHANE	124-48-1	***	ND	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
1,2-DIBROMOETHANE (EDB)	106-93-4	***	ND	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
CHLOROBENZENE	108-90-7	0.100	ND	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
ETHYLBENZENE	100-41-4	0.700	ND	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
M&P-XYLENE	179601-23-1	***	ND	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
O-XYLENE	95-47-6	***	ND	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
STYRENE	100-42-5	0.100	ND	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
BROMOFORM	75-25-2	0.700	ND	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
ISOPROPYLBENZZENE (CUMENE)	98-82-8	***	ND	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
1,1,2,2-TETRACHLOROETHANE	79-34-5	***	ND	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
1,3-DICHLOROBENZENE	541-73-1	***	ND	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
1,4-DICHLOROBENZENE	106-46-7	***	ND	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
1,2-DICHLOROBENZENE	95-50-1	***	ND	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	***	ND	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
2-BUTANONE (MEK)	78-93-3	***	ND	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010
2-HEXANONE	591-78-6	***	ND	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010
CARBON DISULFIDE	75-15-0	4.000	ND	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
ACETONE	67-64-1	4.000	ND	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010
METHYL-TERT-BUTYL ETHER	1634-04-4	***	ND	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
4-METHYL-2-PENTANONE (MIBK)	108-10-1	***	ND	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010
MEHTYL ACETATE	79-20-9	***	ND	ND	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010

Leyenda:

***: EPA no tiene un MCL establecido para este parámetro
MG/L: Miligrams per Liter (miligramos por litro)
Metodo 8260: Método de Análisis para Volátiles según EPA SW-846
RL: Reporting Limit (límite de Reporte según método) en mg/L
ND No detectado
QA/QC: Quality Assurance/Quality Control (Muestras de Control de Calidad y Certeza)

MCL: Maximum Contaminant Level (Nivel Máximo de Contaminación) según EPA en mg/L
COV's: Compuestos Orgánicos Volátiles según listado requerido para este muestreo.
CAS: Chemical Abstract Service (identificadores numéricos para parámetro a ser analizado).
N/A: No Aplica

TABLA 2
SRS ARECIBO
RESULTADOS ANALITICOS PARA METALES EN (MG/L)
METODO 6010 EPA
ABRIL DE 2015

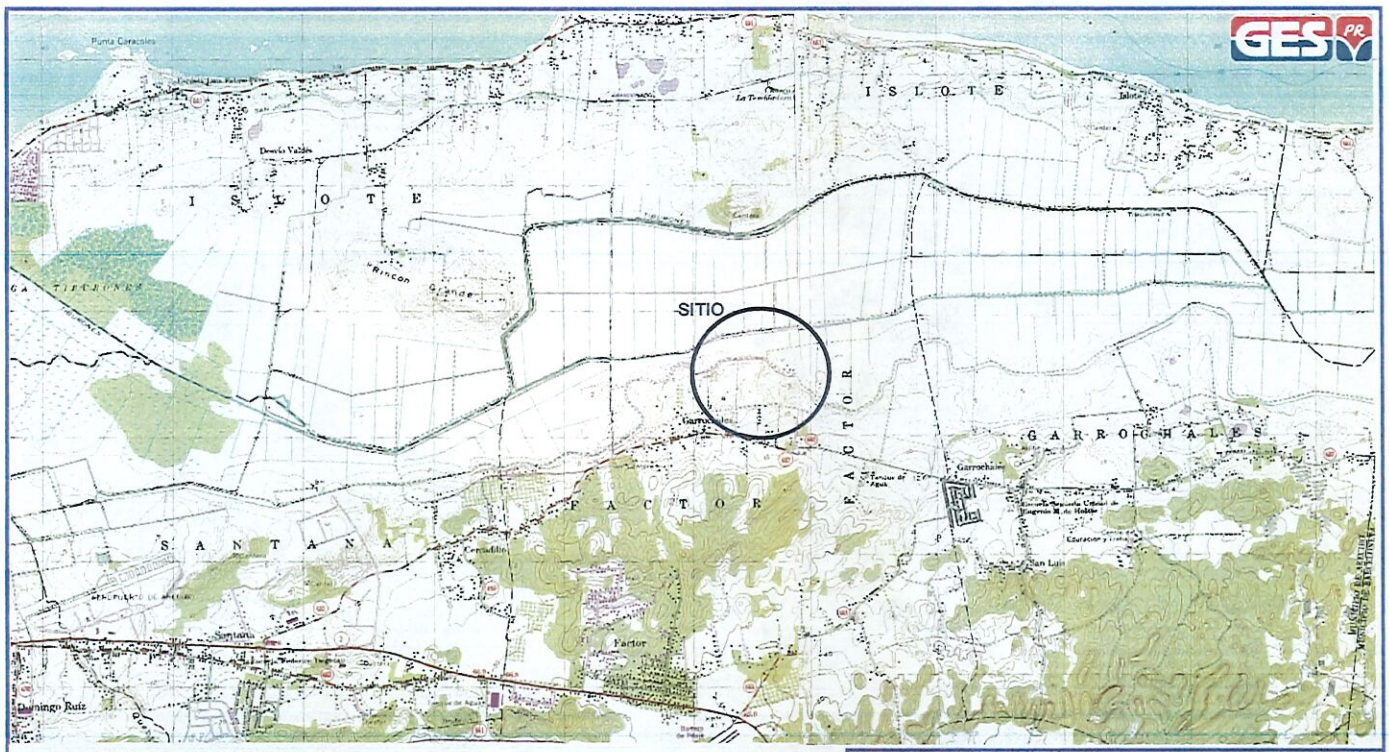
PARAMETRO DE ANALISIS			MUESTRAS QA/QC			MUESTRAS DE AGUA DE POZOS										
						G.ARRIBA		POZOS DE CUMPLIMIENTO								
NOMBRE	CAS NO.	MCL	TB	FB	EB	W-1-1	W-1-2	W-2-1	W-2-2	W-3-1	W-3-2	W-4-1	W-4-2	W-5-1	W-5-2	RL (mg/L)
ANTIMONY	7440-36-0	0.060	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.060
ARSENIC	7440-38-2	0.050	N/A	N/A	N/A	ND	ND	0.011	0.010	ND	ND	ND	ND	ND	ND	0.010
BARIUM	7440-39-3	2.000	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	0.38	0.38	ND	ND	0.200
BERYLLIUM	7440-41-7	0.004	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
CADMIUM	7440-43-9	0.005	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
CHROMIUM	7440-47-3	0.100	N/A	N/A	N/A	ND	ND	ND	ND	0.012	0.014	ND	ND	0.014	0.012	0.010
COBALT	7440-48-4	***	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	0.01	ND	ND	ND	0.010
COPPER	7440-50-8	1.300	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	0.013	0.013	ND	ND	0.010
LEAD	7439-92-1	0.015	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
NICKEL	7440-02-0	***	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	0.043	0.042	ND	ND	0.040
SELENIUM	7782-49-2	0.050	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.035
SILVER	7440-22-4	***	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010
TALLIUM	7440-28-0	0.002	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010
VANADIUM	7440-62-2	***	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050
ZINC	7440-66-6	5.000	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	0.14	0.14	ND	ND	0.020

LEYENDA

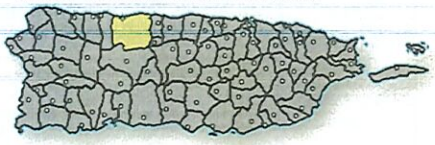
Metodo 8260: Método de Análisis para Volátiles según EPA SW-846
RL: Reporting Limit (limite de Reporte según método) en mg/L
MG/L: Miligrams per Liter (miligramos por litro)
***: EPA no tienen un MCL establecido par este parámetro
MCL: Maximum Contaminant Level (Nivel Máximo de Contaminación) según EPA en mg/L

QA/QC: Quality Assurance/Quality Control (Muestras de Control de Calidad y Certeza)
ND: ND Detectado **N/A:** No Aplica
Arrojó un resultado por encima del MCL establecido por EPA
COV's: Compuestos Orgánicos Volátiles según listado requerido para este muestreo.
CAS NO: Chemical Abstract Service (identificadores numéricos para parámetro a ser analizado).

FIGURAS



FUENTE: USGS TOPOGRAPHIC MAP
ARECIBO QUADRANGLE, PHOTOREVISED 1982



ESCALA 0 — MILLA 1

PREPARADO POR: D.GINES	LOCALIZACIÓN DEL SISTEMA DE RELLENO SANITARIO DE ARECIBO		
REVISADO POR: E.CAMIS	LANDFILL TECHNOLOGIES CORPORATION, LTC		
APROBADO POR: I.PERERA	LANDFILL TECHNOLOGIES CORPORATION, LTC		
NORTE	ESCALA GRAFICA	FECHA:	FIGURA: 1

FUENTE: GOOGLE EARTH, AERIAL IMAGE 12-24-2013

POZO	LATITUD	LONGITUD
W-1	18°28'01.66"	66°37'08.60"
W-2	18°28'1.32"	66°36'59.16"
W-3	18°27'54.42"	66°37'3.06"
W-4	18°27'50.7"	66°37'5.84"
W-5	18°28'2.64"	66°37'37.38"

LEYENDA:

POZOS DE MONITORIA DE AGUA

DIB. POR: D.GINES E.CAMIS	**LOCALIZACION DE PUNTOS DE MONITORIA DE AGUA SUBTERRANEA**		
REV. POR: Y.SOTO	**LANDFILL TECHNOLOGIES CORPORATION, LTC**		
APROBADO POR: I.PERERA	Groundwater & Environmental Services Puerto Rico, LLC 1550 Ave. Ponce De León, Parada 23, Piso 2 Santurce PR 00909		
NORTE	ESCALA GRAFICA	FECHA: 4/20/2015	FIGURA: **2**

ANEJO 1

Hoja de Datos de Campo

JB 04/15/15

WELL DEVELOPMENT DATA									
SAMPLING EVENT LOCATION:	SRS ARECIBO			EVENT START TIME:					
DESCRIPTION OF WELL CONDITION	WELL I.D. AND TYPE								
	COMPLIANCE			COMPLIANCE					
	W-2			W-1					
WEATHER	Sunny			Sunny					
GROUNDWATER PRESENCE DATA									
DEPTH OF WATER BEFORE DEVELOPME	~~2.28ft~~ 6.96			~~7.93ft~~ 8.33					
DEPTH OF WATER AFTER DEVELOPMEN	~~11.28ft~~ 13.22			~~14.21~~ 20.05					
WELL CONSTRUCTION DATA									
DEPTH OF WELL	30.0FT			41.60FT					
HEIGHT OF CASING	2.50FT			3.00FT					
WELL DIAMETER	4 INCH			4 INCH					
LENGTH OF WATER COLUMN	23.04			33.22					
VOLUME OF WATER IN COLUMN	14.97			21					
VOLUMES TO BE REMOVED FROM WELL	15gal.			21gal.					
WELL DEVELOPMENT DATA									
SURGE TECHNIQUE	PUMP/BAILER			PUMP/BAILER			PUMP/BAILER		
SURGE START TIME	0951			1026					
SURGE END TIME	1000			1038					
DEVELOPMENT (3 VOLUMES)	W-2			W-1					
FIELD PARAMETER DATA	VOL (1)	VOL (2)	VOL (3)	VOL (1)	VOL (2)	VOL (3)	VOL (1)	VOL (2)	VOL (3)
GALLONS	5	5	5	7	7	7			
WATER LEVEL (FT)	12.90	13.25	13.20	18.36	19.20	20.87			
TIME (AM OR PM)	0953	0955	0957	1029	1032	1035			
TEMP (°C)	18.97	18.98	19.10	20.13	20.16	20.22			
SPECIFIC CONDUCTANCE(mS/cm)	570	569	566	1004	1004	1005			
PH	8.14	7.86	7.65	7.36	7.27	7.27			
TURBIDITY (ntu)	172	10.01	8.03	1.24	1.10	1.21			
DO (%)	1.81	1.81	2.23	2.19	2.81	2.95			
SALINITY	0.11	0.11	0.11	0.23	0.16	0.12			
COLOR	clear	clear	clear	clear	clear	clear			
ODOR	none	none	none	none	none	none			
SAMPLE TIME	W-2-1(1003), W-2-2(1006)			none					
COMMENTS	W-2-1			W-1-1(1012), W-1-2(1015)					
EQUIPMENT	JB	YSI PLUS							
LOGGED IN THE FIELD BY:		END OF EVENT AT (TIME):				SIGNATURE			
TDS	380	354	310	374	336	221			

JB

JB 04/15/15

WELL DEVELOPMENT DATA			
SAMPLING EVENT LOCATION:	SRS ARECIBO	EVENT START TIME:	
DESCRIPTION OF WELL CONDITION	WELL I.D. AND TYPE		
	UPGRADIENT	COMPLIANCE	COMPLIANCE
	W-5	W-4	W-3
WEATHER	Sunny	Sunny	Sunny
GROUNDWATER PRESENCE DATA			
DEPTH OF WATER BEFORE DEVELOPME	4.11	11.02	18.48
DEPTH OF WATER AFTER DEVELOPMEN	15.02	10.96	18.50
WELL CONSTRUCTION DATA			
DEPTH OF WELL	42.00FT	54FT	47.0FT
HEIGHT OF CASING	2.50FT	2.50FT	2.5FT
WELL DIAMETER	4 INCH	4 INCH	4 INCH
LENGTH OF WATER COLUMN	37.89	42.98	28.52
VOLUME OF WATER IN COLUMN	24	27.93	18.53
VOLUMES TO BE REMOVED FROM WELL	24gal.	27 ~~18~~gal.	18gal
WELL DEVELOPMENT DATA			
SURGE TECHNIQUE	PUMP/BAILER	PUMP/BAILER	PUMP/BAILER
SURGE START TIME	1100	0841	0920
SURGE END TIME	1116	0908	0932

DEVELOPMENT (3 VOLUMES)	W-5			W-4			W-3		
FIELD PARAMETER DATA	VOL (1)	VOL (2)	VOL (3)	VOL (1)	VOL (2)	VOL (3)	VOL (1)	VOL (2)	VOL (3)
GALLONS	8	8	8	9	9	9	6	6	6
WATER LEVEL (FT)	11.10	18.16	20.16	12.31	12.05	11.94	19.24	19.27	19.30
TIME (AM OR PM)	1104	1108	1112	0849	0853	0905	0923	0926	0929
TEMP (°C)	18.46	18.46	18.49	20.09	20.16	20.12	20.21	20.08	19.90
SPECIFIC CONDUCTANCE(mS/cm)	744	745	745	5192	3267	3366	1298	1302	1295
PH	7.69	7.81	7.86	6.35	6.80	6.99	8.27	8.00	7.85
TURBIDITY (ntu)	2.34	2.10	2.48	8.58	3.99	4.85	1.64	1.03	1.63
DO (%)	8.19	7.74	7.62	4.14	4.48	4.25	3.50	3.54	3.18
SALINITY	0.11	0.11	0.11	0.18	0.22	0.18	0.23	0.29	0.16
COLOR	clear	clear	clear	clear	clear	clear	clear	clear	clear
ODOR	none	none	none	none	none	none	none	none	none
SAMPLE TIME	W-5-1 (1120) / W-5-2 (1123)			W-4-1 (0912) / W-4-2 (0915)			W-3-1 (0935) / W-3-2 (0937)		
COMMENTS									
EQUIPMENT	YSI MULTI PLUS								
LOGGED IN THE FIELD BY:		END OF EVENT AT (TIME):				SIGNATURE			

TDS	330	226	333	146	190	196	321	302	444

ANEJO 2

Cadenas de Custodia

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WO# : 2018538

2018538

...uest Document
...t be completed accurately.

Page: 1 of 1

1399702

Section A
Required Client Information:

Company: GESPR
Address: 7550 Ave Punce Ste 200
Iso 2, Santurce, PR
Email To: ecomis@gesonline.com
Phone: 7727141 Fax: n/a
Requested Due Date/TAT: Std

Section B
Required Project Information:

Report To: Efrain Comis / GESPR
Copy To: Efrain Comis / GESPR
Purchase Order No.:
Project Name: SRS Arecibo
Project Number: 7100 830

Attention: Efrain Comis
Company Name: GESPR
Address:
Pace Quote Reference:
Pace Project Manager: Juan Rodriguez
Pace Profile #:

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☒ OTHER EQB

Site Location: Arecibo
STATE: PR

Section D
Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes
MATRIX / CODE
Drinking Water DW
Water WT
Waste Water WW
Product P
Soil/Solid SL
Oil OL
Wipe WP
Air AR
Tissue TS
Other OT

Requested Analysis Filtered (Y/N): N, N

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start Date	Composite Start Time	Composite End/Grab Date	Composite End/Grab Time	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: VOC 8260B	Analysis Test: Metals 6010B	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	TB-041515	WT	G			041515	—	NA	2				Y					Y		N	2018538
2	W-4-1	WT	G			041515	0912	NA	3			Y	Y					Y	Y	N	
3	W-4-2	WT	G			041515	0915	NA	3			Y	Y					Y	Y	N	
4	W-3-1	WT	G			041515	0935	NA	3			Y	Y					Y	Y	N	
5	W-3-2	WT	G			041515	0937	NA	3			Y	Y					Y	Y	N	
6	W-2-1	WT	G			041515	1003	NA	3			Y	Y					Y	Y	N	
7	W-2-2	WT	G			041515	1006	NA	3			Y	Y					Y	Y	N	
8	W-1-1	WT	G			041515	1042	NA	3			Y	Y					Y	Y	N	
9	W-1-2	WT	G			041515	1045	NA	3			Y	Y					Y	Y	N	
10	W-5-1	WT	G			041515	1120	NA	3			Y	Y					Y	Y	N	
11	W-5-2	WT	G			041515	1123	NA	3			Y	Y					Y	Y	N	
12	FB-041515	WT	G			041515	1136	NA	2				Y					Y		N	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
EDD: SRS Arecibo-blanpt.nom.bq.	Jose Bonilla / GESPR	041515	1:44	[signature] / PACE	4/15/15	1344	3	Y	N	Y
21861.EQ.EDD.zip	[signature] / PACE	4/15/15	1638							
Email: ges@egisonline.com	FedEx	4-16-15	850	[signature]	4/16/15	850	5.0 / 5.7	Y	Y	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Jose Bonilla
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 041515

Temp In °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

ANEJO 3

Resultados de Laboratorio

Pace Analytical Services, Inc.
1000 Riverbend Blvd - Suite F
St. Rose, LA 70087
(504)469-0333

April 22, 2015

Isidro Perera
GES PR
1418 Ave. Ponce De Leon Ave
Suite 201
San Juan, PR 009074000

RE: Project: SRS Arecibo 7100830
Pace Project No.: 2018538

Dear Isidro Perera:
Enclosed are the analytical results for sample(s) received by the laboratory on April 15, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Juan Redondo
juan.redondo@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: SRS Arecibo 7100830
Pace Project No.: 2018538

New Orleans Certification IDs
California Env. Lab Accreditation Program Branch: 11277CA
Florida Department of Health (NELAC): E87595
Illinois Environmental Protection Agency: 0025721
Kansas Department of Health and Environment (NELAC): E-10266
Louisiana Dept. of Environmental Quality (NELAC/LELAP): 02006
Pennsylviania Dept. of Env Protection (NELAC): 68-04202
Texas Commission on Env. Quality (NELAC): T104704405-09-TX
U.S. Dept. of Agriculture Foreign Soil Import: P330-10-00119

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SAMPLE SUMMARY

Project: SRS Arecibo 7100830
Pace Project No.: 2018538

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2018538001	TB- 041515	Water	04/15/15 00:00	04/15/15 13:44
2018538002	W-4-1	Water	04/15/15 09:12	04/15/15 13:44
2018538003	W-4-2	Water	04/15/15 09:15	04/15/15 13:44
2018538004	W-3-1	Water	04/15/15 09:35	04/15/15 13:44
2018538005	W-3-2	Water	04/15/15 09:37	04/15/15 13:44
2018538006	W-2-1	Water	04/15/15 10:03	04/15/15 13:44
2018538007	W-2-2	Water	04/15/15 10:06	04/15/15 13:44
2018538008	W-1-1	Water	04/15/15 10:42	04/15/15 13:44
2018538009	W-1-2	Water	04/15/15 10:45	04/15/15 13:44
2018538010	W-5-1	Water	04/15/15 11:20	04/15/15 13:44
2018538011	W-5-2	Water	04/15/15 11:23	04/15/15 13:44
2018538012	FB-041515	Water	04/15/15 11:36	04/15/15 13:44

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SAMPLE ANALYTE COUNT

Project: SRS Arecibo 7100830
Pace Project No.: 2018538

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2018538001	TB- 041515	EPA 8260	MHM	48	PASI-N
2018538002	W-4-1	EPA 6010	MHB1	15	PASI-N
		EPA 8260	MHM	48	PASI-N
2018538003	W-4-2	EPA 6010	MHB1	15	PASI-N
		EPA 8260	MHM	48	PASI-N
2018538004	W-3-1	EPA 6010	MHB1	15	PASI-N
		EPA 8260	MHM	48	PASI-N
2018538005	W-3-2	EPA 6010	MHB1	15	PASI-N
		EPA 8260	MHM	48	PASI-N
2018538006	W-2-1	EPA 6010	MHB1	15	PASI-N
		EPA 8260	MHM	48	PASI-N
2018538007	W-2-2	EPA 6010	MHB1	15	PASI-N
		EPA 8260	MHM	48	PASI-N
2018538008	W-1-1	EPA 6010	MHB1	15	PASI-N
		EPA 8260	MHM	48	PASI-N
2018538009	W-1-2	EPA 6010	MHB1	15	PASI-N
		EPA 8260	MHM	48	PASI-N
2018538010	W-5-1	EPA 6010	MHB1	15	PASI-N
		EPA 8260	MHM	48	PASI-N
2018538011	W-5-2	EPA 6010	MHB1	15	PASI-N
		EPA 8260	MHM	48	PASI-N
2018538012	FB-041515	EPA 8260	MHM	48	PASI-N

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PROJECT NARRATIVE

Project: SRS Arecibo 7100830
Pace Project No.: 2018538

Method: EPA 6010
Description: 6010 Metals, Total
Client: GES PR
Date: April 22, 2015

General Information:
10 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: SRS Arecibo 7100830
Pace Project No.: 2018538

Method: EPA 8260
Description: 8260 MSV
Client: GES PR
Date: April 22, 2015

General Information:
12 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: MSV/2878

S3: Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

- W-3-1 (Lab ID: 2018538004)
  - Dibromofluoromethane (S)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ESTADO LIBRE ASOCIADO DE PUERTO RICO
María de los A. Negrón #5118
QUIMICO LICENCIADO

ANALYTICAL RESULTS

Project: SRS Arecibo 7100830
Pace Project No.: 2018538

Sample: TB- 041515 **Lab ID: 2018538001** Collected: 04/15/15 00:00 Received: 04/15/15 13:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	mg/L	0.010	1		04/16/15 17:06	67-64-1	
Benzene	ND	mg/L	0.0050	1		04/16/15 17:06	71-43-2	
Bromodichloromethane	ND	mg/L	0.0050	1		04/16/15 17:06	75-27-4	
Bromoform	ND	mg/L	0.0050	1		04/16/15 17:06	75-25-2	
Bromomethane	ND	mg/L	0.0050	1		04/16/15 17:06	74-83-9	
2-Butanone (MEK)	ND	mg/L	0.010	1		04/16/15 17:06	78-93-3	
Carbon disulfide	ND	mg/L	0.0050	1		04/16/15 17:06	75-15-0	
Carbon tetrachloride	ND	mg/L	0.0050	1		04/16/15 17:06	56-23-5	
Chlorobenzene	ND	mg/L	0.0050	1		04/16/15 17:06	108-90-7	
Chloroethane	ND	mg/L	0.0050	1		04/16/15 17:06	75-00-3	
Chloroform	ND	mg/L	0.0050	1		04/16/15 17:06	67-66-3	
Chloromethane	ND	mg/L	0.0050	1		04/16/15 17:06	74-87-3	
1,2-Dibromo-3-chloropropane	ND	mg/L	0.0050	1		04/16/15 17:06	96-12-8	
Dibromochloromethane	ND	mg/L	0.0050	1		04/16/15 17:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/L	0.0050	1		04/16/15 17:06	106-93-4	
1,2-Dichlorobenzene	ND	mg/L	0.0050	1		04/16/15 17:06	95-50-1	
1,3-Dichlorobenzene	ND	mg/L	0.0050	1		04/16/15 17:06	541-73-1	
1,4-Dichlorobenzene	ND	mg/L	0.0050	1		04/16/15 17:06	106-46-7	
Dichlorodifluoromethane	ND	mg/L	0.0050	1		04/16/15 17:06	75-71-8	
1,1-Dichloroethane	ND	mg/L	0.0050	1		04/16/15 17:06	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0050	1		04/16/15 17:06	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0050	1		04/16/15 17:06	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0050	1		04/16/15 17:06	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0050	1		04/16/15 17:06	156-60-5	
1,2-Dichloropropane	ND	mg/L	0.0050	1		04/16/15 17:06	78-87-5	
cis-1,3-Dichloropropene	ND	mg/L	0.0050	1		04/16/15 17:06	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/L	0.0050	1		04/16/15 17:06	10061-02-6	
Ethylbenzene	ND	mg/L	0.0050	1		04/16/15 17:06	100-41-4	
2-Hexanone	ND	mg/L	0.010	1		04/16/15 17:06	591-78-6	
Isopropylbenzene (Cumene)	ND	mg/L	0.0050	1		04/16/15 17:06	98-82-8	
Methyl acetate	ND	mg/L	0.010	1		04/16/15 17:06	79-20-9	
Methylene Chloride	ND	mg/L	0.0050	1		04/16/15 17:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/L	0.010	1		04/16/15 17:06	108-10-1	
Methyl-tert-butyl ether	ND	mg/L	0.0050	1		04/16/15 17:06	1634-04-4	
Styrene	ND	mg/L	0.0050	1		04/16/15 17:06	100-42-5	
1,1,2,2-Tetrachloroethane	ND	mg/L	0.0050	1		04/16/15 17:06	79-34-5	
Tetrachloroethene	ND	mg/L	0.0050	1		04/16/15 17:06	127-18-4	
Toluene	ND	mg/L	0.0050	1		04/16/15 17:06	108-88-3	
1,1,1-Trichloroethane	ND	mg/L	0.0050	1		04/16/15 17:06	71-55-6	
1,1,2-Trichloroethane	ND	mg/L	0.0050	1		04/16/15 17:06	79-00-5	
Trichloroethene	ND	mg/L	0.0050	1		04/16/15 17:06	79-01-6	
Trichlorofluoromethane	ND	mg/L	0.0050	1		04/16/15 17:06	75-69-4	
Vinyl chloride	ND	mg/L	0.0020	1		04/16/15 17:06	75-01-4	
m&p-Xylene	ND	mg/L	0.010	1		04/16/15 17:06	179601-23-1	
o-Xylene	ND	mg/L	0.0050	1		04/16/15 17:06	95-47-6	
Surrogates								
Toluene-d8 (S)	98	%.	70-123	1		04/16/15 17:06	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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María de los A. Negrón #5118
QUIMICO LICENCIADO

ANALYTICAL RESULTS

Project: SRS Arecibo 7100830
Pace Project No.: 2018538

Sample: TB-041515 Lab ID: 2018538001 Collected: 04/15/15 00:00 Received: 04/15/15 13:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Surrogates								
4-Bromofluorobenzene (S)	105	%.	62-134	1		04/16/15 17:06	460-00-4	
Dibromofluoromethane (S)	101	%.	64-130	1		04/16/15 17:06	1868-53-7	

Sample: W-4-1 Lab ID: 2018538002 Collected: 04/15/15 09:12 Received: 04/15/15 13:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 Metals, Total	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	mg/L	0.060	1	04/17/15 05:00	04/17/15 18:34	7440-36-0	
Arsenic	ND	mg/L	0.010	1	04/17/15 05:00	04/17/15 18:34	7440-38-2	
Barium	**0.38**	mg/L	0.20	1	04/17/15 05:00	04/17/15 18:34	7440-39-3	
Beryllium	ND	mg/L	0.0050	1	04/17/15 05:00	04/17/15 18:34	7440-41-7	
Cadmium	ND	mg/L	0.0050	1	04/17/15 05:00	04/17/15 18:34	7440-43-9	
Chromium	ND	mg/L	0.010	1	04/17/15 05:00	04/17/15 18:34	7440-47-3	
Cobalt	**0.010**	mg/L	0.010	1	04/17/15 05:00	04/17/15 18:34	7440-48-4	
Copper	**0.013**	mg/L	0.010	1	04/17/15 05:00	04/17/15 18:34	7440-50-8	
Lead	ND	mg/L	0.0050	1	04/17/15 05:00	04/17/15 18:34	7439-92-1	
Nickel	**0.043**	mg/L	0.040	1	04/17/15 05:00	04/17/15 18:34	7440-02-0	
Selenium	ND	mg/L	0.020	1	04/17/15 05:00	04/17/15 18:34	7782-49-2	
Silver	ND	mg/L	0.010	1	04/17/15 05:00	04/17/15 18:34	7440-22-4	
Thallium	ND	mg/L	0.010	1	04/17/15 05:00	04/17/15 18:34	7440-28-0	
Vanadium	ND	mg/L	0.050	1	04/17/15 05:00	04/17/15 18:34	7440-62-2	
Zinc	**0.14**	mg/L	0.020	1	04/17/15 05:00	04/17/15 18:34	7440-66-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	mg/L	0.010	1		04/16/15 17:26	67-64-1	
Benzene	ND	mg/L	0.0050	1		04/16/15 17:26	71-43-2	
Bromodichloromethane	ND	mg/L	0.0050	1		04/16/15 17:26	75-27-4	
Bromoform	ND	mg/L	0.0050	1		04/16/15 17:26	75-25-2	
Bromomethane	ND	mg/L	0.0050	1		04/16/15 17:26	74-83-9	
2-Butanone (MEK)	ND	mg/L	0.010	1		04/16/15 17:26	78-93-3	
Carbon disulfide	ND	mg/L	0.0050	1		04/16/15 17:26	75-15-0	
Carbon tetrachloride	ND	mg/L	0.0050	1		04/16/15 17:26	56-23-5	
Chlorobenzene	ND	mg/L	0.0050	1		04/16/15 17:26	108-90-7	
Chloroethane	ND	mg/L	0.0050	1		04/16/15 17:26	75-00-3	
Chloroform	ND	mg/L	0.0050	1		04/16/15 17:26	67-66-3	
Chloromethane	ND	mg/L	0.0050	1		04/16/15 17:26	74-87-3	
1,2-Dibromo-3-chloropropane	ND	mg/L	0.0050	1		04/16/15 17:26	96-12-8	
Dibromochloromethane	ND	mg/L	0.0050	1		04/16/15 17:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/L	0.0050	1		04/16/15 17:26	106-93-4	
1,2-Dichlorobenzene	ND	mg/L	0.0050	1		04/16/15 17:26	95-50-1	
1,3-Dichlorobenzene	ND	mg/L	0.0050	1		04/16/15 17:26	541-73-1	
1,4-Dichlorobenzene	ND	mg/L	0.0050	1		04/16/15 17:26	106-46-7	
Dichlorodifluoromethane	ND	mg/L	0.0050	1		04/16/15 17:26	75-71-8	

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ESTADO LIBRE ASOCIADO DE PUERTO RICO
QUIMICO
María de los A. Negrón #5118

ANALYTICAL RESULTS

Project: SRS Arecibo 7100830
Pace Project No.: 2018538

Sample: W-4-1 Lab ID: 2018538002 Collected: 04/15/15 09:12 Received: 04/15/15 13:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,1-Dichloroethane	ND	mg/L	0.0050	1		04/16/15 17:26	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0050	1		04/16/15 17:26	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0050	1		04/16/15 17:26	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0050	1		04/16/15 17:26	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0050	1		04/16/15 17:26	156-60-5	
1,2-Dichloropropane	ND	mg/L	0.0050	1		04/16/15 17:26	78-87-5	
cis-1,3-Dichloropropene	ND	mg/L	0.0050	1		04/16/15 17:26	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/L	0.0050	1		04/16/15 17:26	10061-02-6	
Ethylbenzene	ND	mg/L	0.0050	1		04/16/15 17:26	100-41-4	
2-Hexanone	ND	mg/L	0.010	1		04/16/15 17:26	591-78-6	
Isopropylbenzene (Cumene)	ND	mg/L	0.0050	1		04/16/15 17:26	98-82-8	
Methyl acetate	ND	mg/L	0.010	1		04/16/15 17:26	79-20-9	
Methylene Chloride	ND	mg/L	0.0050	1		04/16/15 17:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/L	0.010	1		04/16/15 17:26	108-10-1	
Methyl-tert-butyl ether	ND	mg/L	0.0050	1		04/16/15 17:26	1634-04-4	
Styrene	ND	mg/L	0.0050	1		04/16/15 17:26	100-42-5	
1,1,2,2-Tetrachloroethane	ND	mg/L	0.0050	1		04/16/15 17:26	79-34-5	
Tetrachloroethene	ND	mg/L	0.0050	1		04/16/15 17:26	127-18-4	
Toluene	ND	mg/L	0.0050	1		04/16/15 17:26	108-88-3	
1,1,1-Trichloroethane	ND	mg/L	0.0050	1		04/16/15 17:26	71-55-6	
1,1,2-Trichloroethane	ND	mg/L	0.0050	1		04/16/15 17:26	79-00-5	
Trichloroethene	ND	mg/L	0.0050	1		04/16/15 17:26	79-01-6	
Trichlorofluoromethane	ND	mg/L	0.0050	1		04/16/15 17:26	75-69-4	
Vinyl chloride	ND	mg/L	0.0020	1		04/16/15 17:26	75-01-4	
m&p-Xylene	ND	mg/L	0.010	1		04/16/15 17:26	179601-23-1	
o-Xylene	ND	mg/L	0.0050	1		04/16/15 17:26	95-47-6	
Surrogates								
Toluene-d8 (S)	112	%.	70-123	1		04/16/15 17:26	2037-26-5	
4-Bromofluorobenzene (S)	120	%.	62-134	1		04/16/15 17:26	460-00-4	
Dibromofluoromethane (S)	119	%.	64-130	1		04/16/15 17:26	1868-53-7	

Sample: W-4-2 Lab ID: 2018538003 Collected: 04/15/15 09:15 Received: 04/15/15 13:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 Metals, Total	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	mg/L	0.060	1	04/17/15 05:00	04/17/15 18:38	7440-36-0	
Arsenic	ND	mg/L	0.010	1	04/17/15 05:00	04/17/15 18:38	7440-38-2	
Barium	**0.38**	mg/L	0.20	1	04/17/15 05:00	04/17/15 18:38	7440-39-3	
Beryllium	ND	mg/L	0.0050	1	04/17/15 05:00	04/17/15 18:38	7440-41-7	
Cadmium	ND	mg/L	0.0050	1	04/17/15 05:00	04/17/15 18:38	7440-43-9	
Chromium	ND	mg/L	0.010	1	04/17/15 05:00	04/17/15 18:38	7440-47-3	
Cobalt	ND	mg/L	0.010	1	04/17/15 05:00	04/17/15 18:38	7440-48-4	
Copper	**0.013**	mg/L	0.010	1	04/17/15 05:00	04/17/15 18:38	7440-50-8	
Lead	ND	mg/L	0.0050	1	04/17/15 05:00	04/17/15 18:38	7439-92-1	
Nickel	**0.042**	mg/L	0.040	1	04/17/15 05:00	04/17/15 18:38	7440-02-0	

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ESTADO LIBRE ASOCIADO DE PUERTO RICO
María de los A. Negrón #5118
QUIMICO LICENCIADO

ANALYTICAL RESULTS

Project: SRS Arecibo 7100830
Pace Project No.: 2018538

Sample: W-4-2 Lab ID: 2018538003 Collected: 04/15/15 09:15 Received: 04/15/15 13:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 Metals, Total	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Selenium	ND	mg/L	0.020	1	04/17/15 05:00	04/17/15 18:38	7782-49-2	
Silver	ND	mg/L	0.010	1	04/17/15 05:00	04/17/15 18:38	7440-22-4	
Thallium	ND	mg/L	0.010	1	04/17/15 05:00	04/17/15 18:38	7440-28-0	
Vanadium	ND	mg/L	0.050	1	04/17/15 05:00	04/17/15 18:38	7440-62-2	
Zinc	0.14	mg/L	0.020	1	04/17/15 05:00	04/17/15 18:38	7440-66-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	mg/L	0.010	1		04/16/15 17:46	67-64-1	
Benzene	ND	mg/L	0.0050	1		04/16/15 17:46	71-43-2	
Bromodichloromethane	ND	mg/L	0.0050	1		04/16/15 17:46	75-27-4	
Bromoform	ND	mg/L	0.0050	1		04/16/15 17:46	75-25-2	
Bromomethane	ND	mg/L	0.0050	1		04/16/15 17:46	74-83-9	
2-Butanone (MEK)	ND	mg/L	0.010	1		04/16/15 17:46	78-93-3	
Carbon disulfide	ND	mg/L	0.0050	1		04/16/15 17:46	75-15-0	
Carbon tetrachloride	ND	mg/L	0.0050	1		04/16/15 17:46	56-23-5	
Chlorobenzene	ND	mg/L	0.0050	1		04/16/15 17:46	108-90-7	
Chloroethane	ND	mg/L	0.0050	1		04/16/15 17:46	75-00-3	
Chloroform	ND	mg/L	0.0050	1		04/16/15 17:46	67-66-3	
Chloromethane	ND	mg/L	0.0050	1		04/16/15 17:46	74-87-3	
1,2-Dibromo-3-chloropropane	ND	mg/L	0.0050	1		04/16/15 17:46	96-12-8	
Dibromochloromethane	ND	mg/L	0.0050	1		04/16/15 17:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/L	0.0050	1		04/16/15 17:46	106-93-4	
1,2-Dichlorobenzene	ND	mg/L	0.0050	1		04/16/15 17:46	95-50-1	
1,3-Dichlorobenzene	ND	mg/L	0.0050	1		04/16/15 17:46	541-73-1	
1,4-Dichlorobenzene	ND	mg/L	0.0050	1		04/16/15 17:46	106-46-7	
Dichlorodifluoromethane	ND	mg/L	0.0050	1		04/16/15 17:46	75-71-8	
1,1-Dichloroethane	ND	mg/L	0.0050	1		04/16/15 17:46	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0050	1		04/16/15 17:46	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0050	1		04/16/15 17:46	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0050	1		04/16/15 17:46	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0050	1		04/16/15 17:46	156-60-5	
1,2-Dichloropropane	ND	mg/L	0.0050	1		04/16/15 17:46	78-87-5	
cis-1,3-Dichloropropene	ND	mg/L	0.0050	1		04/16/15 17:46	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/L	0.0050	1		04/16/15 17:46	10061-02-6	
Ethylbenzene	ND	mg/L	0.0050	1		04/16/15 17:46	100-41-4	
2-Hexanone	ND	mg/L	0.010	1		04/16/15 17:46	591-78-6	
Isopropylbenzene (Cumene)	ND	mg/L	0.0050	1		04/16/15 17:46	98-82-8	
Methyl acetate	ND	mg/L	0.010	1		04/16/15 17:46	79-20-9	
Methylene Chloride	ND	mg/L	0.0050	1		04/16/15 17:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/L	0.010	1		04/16/15 17:46	108-10-1	
Methyl-tert-butyl ether	ND	mg/L	0.0050	1		04/16/15 17:46	1634-04-4	
Styrene	ND	mg/L	0.0050	1		04/16/15 17:46	100-42-5	
1,1,2,2-Tetrachloroethane	ND	mg/L	0.0050	1		04/16/15 17:46	79-34-5	
Tetrachloroethene	ND	mg/L	0.0050	1		04/16/15 17:46	127-18-4	
Toluene	ND	mg/L	0.0050	1		04/16/15 17:46	108-88-3	
1,1,1-Trichloroethane	ND	mg/L	0.0050	1		04/16/15 17:46	71-55-6	
1,1,2-Trichloroethane	ND	mg/L	0.0050	1		04/16/15 17:46	79-00-5	

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ESTADO LIBRE ASOCIADO DE PUERTO RICO
Maria de los A. Negrón #5118
QUIMICO LICENCIADO

ANALYTICAL RESULTS

Project: SRS Arecibo 7100830
Pace Project No.: 2018538

Sample: W-4-2 Lab ID: 2018538003 Collected: 04/15/15 09:15 Received: 04/15/15 13:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Trichloroethene	ND	mg/L	0.0050	1		04/16/15 17:46	79-01-6	
Trichlorofluoromethane	ND	mg/L	0.0050	1		04/16/15 17:46	75-69-4	
Vinyl chloride	ND	mg/L	0.0020	1		04/16/15 17:46	75-01-4	
m&p-Xylene	ND	mg/L	0.010	1		04/16/15 17:46	179601-23-1	
o-Xylene	ND	mg/L	0.0050	1		04/16/15 17:46	95-47-6	
Surrogates								
Toluene-d8 (S)	105	%.	70-123	1		04/16/15 17:46	2037-26-5	
4-Bromofluorobenzene (S)	109	%.	62-134	1		04/16/15 17:46	460-00-4	
Dibromofluoromethane (S)	104	%.	64-130	1		04/16/15 17:46	1868-53-7	

Sample: W-3-1 Lab ID: 2018538004 Collected: 04/15/15 09:35 Received: 04/15/15 13:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 Metals, Total	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	mg/L	0.060	1	04/17/15 05:00	04/17/15 18:42	7440-36-0	
Arsenic	ND	mg/L	0.010	1	04/17/15 05:00	04/17/15 18:42	7440-38-2	
Barium	ND	mg/L	0.20	1	04/17/15 05:00	04/17/15 18:42	7440-39-3	
Beryllium	ND	mg/L	0.0050	1	04/17/15 05:00	04/17/15 18:42	7440-41-7	
Cadmium	ND	mg/L	0.0050	1	04/17/15 05:00	04/17/15 18:42	7440-43-9	
Chromium	**0.012**	mg/L	0.010	1	04/17/15 05:00	04/17/15 18:42	7440-47-3	
Cobalt	ND	mg/L	0.010	1	04/17/15 05:00	04/17/15 18:42	7440-48-4	
Copper	ND	mg/L	0.010	1	04/17/15 05:00	04/17/15 18:42	7440-50-8	
Lead	ND	mg/L	0.0050	1	04/17/15 05:00	04/17/15 18:42	7439-92-1	
Nickel	ND	mg/L	0.040	1	04/17/15 05:00	04/17/15 18:42	7440-02-0	
Selenium	ND	mg/L	0.020	1	04/17/15 05:00	04/17/15 18:42	7782-49-2	
Silver	ND	mg/L	0.010	1	04/17/15 05:00	04/17/15 18:42	7440-22-4	
Thallium	ND	mg/L	0.010	1	04/17/15 05:00	04/17/15 18:42	7440-28-0	
Vanadium	ND	mg/L	0.050	1	04/17/15 05:00	04/17/15 18:42	7440-62-2	
Zinc	ND	mg/L	0.020	1	04/17/15 05:00	04/17/15 18:42	7440-66-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	mg/L	0.010	1		04/16/15 18:05	67-64-1	
Benzene	ND	mg/L	0.0050	1		04/16/15 18:05	71-43-2	
Bromodichloromethane	ND	mg/L	0.0050	1		04/16/15 18:05	75-27-4	
Bromoform	ND	mg/L	0.0050	1		04/16/15 18:05	75-25-2	
Bromomethane	ND	mg/L	0.0050	1		04/16/15 18:05	74-83-9	
2-Butanone (MEK)	ND	mg/L	0.010	1		04/16/15 18:05	78-93-3	
Carbon disulfide	ND	mg/L	0.0050	1		04/16/15 18:05	75-15-0	
Carbon tetrachloride	ND	mg/L	0.0050	1		04/16/15 18:05	56-23-5	
Chlorobenzene	ND	mg/L	0.0050	1		04/16/15 18:05	108-90-7	
Chloroethane	ND	mg/L	0.0050	1		04/16/15 18:05	75-00-3	
Chloroform	ND	mg/L	0.0050	1		04/16/15 18:05	67-66-3	
Chloromethane	ND	mg/L	0.0050	1		04/16/15 18:05	74-87-3	
1,2-Dibromo-3-chloropropane	ND	mg/L	0.0050	1		04/16/15 18:05	96-12-8	

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ANALYTICAL RESULTS

ESTADO LIBRE ASOCIADO DE PUERTO RICO
María de los A. Negrón #5118
QUIMICO LICENCIADO

Project: SRS Arecibo 7100830
Pace Project No.: 2018538

Sample: W-3-1 Lab ID: 2018538004 Collected: 04/15/15 09:35 Received: 04/15/15 13:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Dibromochloromethane	ND	mg/L	0.0050	1		04/16/15 18:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/L	0.0050	1		04/16/15 18:05	106-93-4	
1,2-Dichlorobenzene	ND	mg/L	0.0050	1		04/16/15 18:05	95-50-1	
1,3-Dichlorobenzene	ND	mg/L	0.0050	1		04/16/15 18:05	541-73-1	
1,4-Dichlorobenzene	ND	mg/L	0.0050	1		04/16/15 18:05	106-46-7	
Dichlorodifluoromethane	ND	mg/L	0.0050	1		04/16/15 18:05	75-71-8	
1,1-Dichloroethane	ND	mg/L	0.0050	1		04/16/15 18:05	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0050	1		04/16/15 18:05	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0050	1		04/16/15 18:05	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0050	1		04/16/15 18:05	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0050	1		04/16/15 18:05	156-60-5	
1,2-Dichloropropane	ND	mg/L	0.0050	1		04/16/15 18:05	78-87-5	
cis-1,3-Dichloropropene	ND	mg/L	0.0050	1		04/16/15 18:05	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/L	0.0050	1		04/16/15 18:05	10061-02-6	
Ethylbenzene	ND	mg/L	0.0050	1		04/16/15 18:05	100-41-4	
2-Hexanone	ND	mg/L	0.010	1		04/16/15 18:05	591-78-6	
Isopropylbenzene (Cumene)	ND	mg/L	0.0050	1		04/16/15 18:05	98-82-8	
Methyl acetate	ND	mg/L	0.010	1		04/16/15 18:05	79-20-9	
Methylene Chloride	ND	mg/L	0.0050	1		04/16/15 18:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/L	0.010	1		04/16/15 18:05	108-10-1	
Methyl-tert-butyl ether	ND	mg/L	0.0050	1		04/16/15 18:05	1634-04-4	
Styrene	ND	mg/L	0.0050	1		04/16/15 18:05	100-42-5	
1,1,2,2-Tetrachloroethane	ND	mg/L	0.0050	1		04/16/15 18:05	79-34-5	
Tetrachloroethene	ND	mg/L	0.0050	1		04/16/15 18:05	127-18-4	
Toluene	ND	mg/L	0.0050	1		04/16/15 18:05	108-88-3	
1,1,1-Trichloroethane	ND	mg/L	0.0050	1		04/16/15 18:05	71-55-6	
1,1,2-Trichloroethane	ND	mg/L	0.0050	1		04/16/15 18:05	79-00-5	
Trichloroethene	ND	mg/L	0.0050	1		04/16/15 18:05	79-01-6	
Trichlorofluoromethane	ND	mg/L	0.0050	1		04/16/15 18:05	75-69-4	
Vinyl chloride	ND	mg/L	0.0020	1		04/16/15 18:05	75-01-4	
m&p-Xylene	ND	mg/L	0.010	1		04/16/15 18:05	179601-23-1	
o-Xylene	ND	mg/L	0.0050	1		04/16/15 18:05	95-47-6	
Surrogates								
Toluene-d8 (S)	123	%.	70-123	1		04/16/15 18:05	2037-26-5	
4-Bromofluorobenzene (S)	131	%.	62-134	1		04/16/15 18:05	460-00-4	
Dibromofluoromethane (S)	131	%.	64-130	1		04/16/15 18:05	1868-53-7	S3

Sample: W-3-2 Lab ID: 2018538005 Collected: 04/15/15 09:37 Received: 04/15/15 13:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 Metals, Total	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	mg/L	0.060	1	04/17/15 05:00	04/17/15 18:53	7440-36-0	
Arsenic	ND	mg/L	0.010	1	04/17/15 05:00	04/17/15 18:53	7440-38-2	
Barium	ND	mg/L	0.20	1	04/17/15 05:00	04/17/15 18:53	7440-39-3	
Beryllium	ND	mg/L	0.0050	1	04/17/15 05:00	04/17/15 18:53	7440-41-7	

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ESTADO LIBRE ASOCIADO DE PUERTO RICO
María de los A. Negrón #5118
QUIMICO LICENCIADO

ANALYTICAL RESULTS

Project: SRS Arecibo 7100830
Pace Project No.: 2018538

Sample: W-3-2 **Lab ID: 2018538005** Collected: 04/15/15 09:37 Received: 04/15/15 13:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 Metals, Total	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Cadmium	ND	mg/L	0.0050	1	04/17/15 05:00	04/17/15 18:53	7440-43-9	
Chromium	**0.014**	mg/L	0.010	1	04/17/15 05:00	04/17/15 18:53	7440-47-3	
Cobalt	ND	mg/L	0.010	1	04/17/15 05:00	04/17/15 18:53	7440-48-4	
Copper	ND	mg/L	0.010	1	04/17/15 05:00	04/17/15 18:53	7440-50-8	
Lead	ND	mg/L	0.0050	1	04/17/15 05:00	04/17/15 18:53	7439-92-1	
Nickel	ND	mg/L	0.040	1	04/17/15 05:00	04/17/15 18:53	7440-02-0	
Selenium	ND	mg/L	0.020	1	04/17/15 05:00	04/17/15 18:53	7782-49-2	
Silver	ND	mg/L	0.010	1	04/17/15 05:00	04/17/15 18:53	7440-22-4	
Thallium	ND	mg/L	0.010	1	04/17/15 05:00	04/17/15 18:53	7440-28-0	
Vanadium	ND	mg/L	0.050	1	04/17/15 05:00	04/17/15 18:53	7440-62-2	
Zinc	ND	mg/L	0.020	1	04/17/15 05:00	04/17/15 18:53	7440-66-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	mg/L	0.010	1		04/16/15 18:25	67-64-1	
Benzene	ND	mg/L	0.0050	1		04/16/15 18:25	71-43-2	
Bromodichloromethane	ND	mg/L	0.0050	1		04/16/15 18:25	75-27-4	
Bromoform	ND	mg/L	0.0050	1		04/16/15 18:25	75-25-2	
Bromomethane	ND	mg/L	0.0050	1		04/16/15 18:25	74-83-9	
2-Butanone (MEK)	ND	mg/L	0.010	1		04/16/15 18:25	78-93-3	
Carbon disulfide	ND	mg/L	0.0050	1		04/16/15 18:25	75-15-0	
Carbon tetrachloride	ND	mg/L	0.0050	1		04/16/15 18:25	56-23-5	
Chlorobenzene	ND	mg/L	0.0050	1		04/16/15 18:25	108-90-7	
Chloroethane	ND	mg/L	0.0050	1		04/16/15 18:25	75-00-3	
Chloroform	ND	mg/L	0.0050	1		04/16/15 18:25	67-66-3	
Chloromethane	ND	mg/L	0.0050	1		04/16/15 18:25	74-87-3	
1,2-Dibromo-3-chloropropane	ND	mg/L	0.0050	1		04/16/15 18:25	96-12-8	
Dibromochloromethane	ND	mg/L	0.0050	1		04/16/15 18:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/L	0.0050	1		04/16/15 18:25	106-93-4	
1,2-Dichlorobenzene	ND	mg/L	0.0050	1		04/16/15 18:25	95-50-1	
1,3-Dichlorobenzene	ND	mg/L	0.0050	1		04/16/15 18:25	541-73-1	
1,4-Dichlorobenzene	ND	mg/L	0.0050	1		04/16/15 18:25	106-46-7	
Dichlorodifluoromethane	ND	mg/L	0.0050	1		04/16/15 18:25	75-71-8	
1,1-Dichloroethane	ND	mg/L	0.0050	1		04/16/15 18:25	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0050	1		04/16/15 18:25	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0050	1		04/16/15 18:25	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0050	1		04/16/15 18:25	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0050	1		04/16/15 18:25	156-60-5	
1,2-Dichloropropane	ND	mg/L	0.0050	1		04/16/15 18:25	78-87-5	
cis-1,3-Dichloropropene	ND	mg/L	0.0050	1		04/16/15 18:25	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/L	0.0050	1		04/16/15 18:25	10061-02-6	
Ethylbenzene	ND	mg/L	0.0050	1		04/16/15 18:25	100-41-4	
2-Hexanone	ND	mg/L	0.010	1		04/16/15 18:25	591-78-6	
Isopropylbenzene (Cumene)	ND	mg/L	0.0050	1		04/16/15 18:25	98-82-8	
Methyl acetate	ND	mg/L	0.010	1		04/16/15 18:25	79-20-9	
Methylene Chloride	ND	mg/L	0.0050	1		04/16/15 18:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/L	0.010	1		04/16/15 18:25	108-10-1	
Methyl-tert-butyl ether	ND	mg/L	0.0050	1		04/16/15 18:25	1634-04-4	

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ESTADO LIBRE ASOCIADO DE PUERTO RICO
Maria de los A. Negron #5118
QUIMICO LICENCIADO

ANALYTICAL RESULTS

Project: SRS Arecibo 7100830
Pace Project No.: 2018538

Sample: W-3-2 **Lab ID: 2018538005** Collected: 04/15/15 09:37 Received: 04/15/15 13:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Styrene	ND	mg/L	0.0050	1		04/16/15 18:25	100-42-5	
1,1,2,2-Tetrachloroethane	ND	mg/L	0.0050	1		04/16/15 18:25	79-34-5	
Tetrachloroethene	ND	mg/L	0.0050	1		04/16/15 18:25	127-18-4	
Toluene	ND	mg/L	0.0050	1		04/16/15 18:25	108-88-3	
1,1,1-Trichloroethane	ND	mg/L	0.0050	1		04/16/15 18:25	71-55-6	
1,1,2-Trichloroethane	ND	mg/L	0.0050	1		04/16/15 18:25	79-00-5	
Trichloroethene	ND	mg/L	0.0050	1		04/16/15 18:25	79-01-6	
Trichlorofluoromethane	ND	mg/L	0.0050	1		04/16/15 18:25	75-69-4	
Vinyl chloride	ND	mg/L	0.0020	1		04/16/15 18:25	75-01-4	
m&p-Xylene	ND	mg/L	0.010	1		04/16/15 18:25	179601-23-1	
o-Xylene	ND	mg/L	0.0050	1		04/16/15 18:25	95-47-6	
Surrogates								
Toluene-d8 (S)	89	%.	70-123	1		04/16/15 18:25	2037-26-5	
4-Bromofluorobenzene (S)	92	%.	62-134	1		04/16/15 18:25	460-00-4	
Dibromofluoromethane (S)	90	%.	64-130	1		04/16/15 18:25	1868-53-7	

Sample: W-2-1 **Lab ID: 2018538006** Collected: 04/15/15 10:03 Received: 04/15/15 13:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 Metals, Total	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	mg/L	0.060	1	04/17/15 05:00	04/17/15 18:57	7440-36-0	
Arsenic	**0.011**	mg/L	0.010	1	04/17/15 05:00	04/17/15 18:57	7440-38-2	
Barium	ND	mg/L	0.20	1	04/17/15 05:00	04/17/15 18:57	7440-39-3	
Beryllium	ND	mg/L	0.0050	1	04/17/15 05:00	04/17/15 18:57	7440-41-7	
Cadmium	ND	mg/L	0.0050	1	04/17/15 05:00	04/17/15 18:57	7440-43-9	
Chromium	ND	mg/L	0.010	1	04/17/15 05:00	04/17/15 18:57	7440-47-3	
Cobalt	ND	mg/L	0.010	1	04/17/15 05:00	04/17/15 18:57	7440-48-4	
Copper	ND	mg/L	0.010	1	04/17/15 05:00	04/17/15 18:57	7440-50-8	
Lead	ND	mg/L	0.0050	1	04/17/15 05:00	04/17/15 18:57	7439-92-1	
Nickel	ND	mg/L	0.040	1	04/17/15 05:00	04/17/15 18:57	7440-02-0	
Selenium	ND	mg/L	0.020	1	04/17/15 05:00	04/17/15 18:57	7782-49-2	
Silver	ND	mg/L	0.010	1	04/17/15 05:00	04/17/15 18:57	7440-22-4	
Thallium	ND	mg/L	0.010	1	04/17/15 05:00	04/17/15 18:57	7440-28-0	
Vanadium	ND	mg/L	0.050	1	04/17/15 05:00	04/17/15 18:57	7440-62-2	
Zinc	ND	mg/L	0.020	1	04/17/15 05:00	04/17/15 18:57	7440-66-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	mg/L	0.010	1		04/16/15 18:45	67-64-1	
Benzene	ND	mg/L	0.0050	1		04/16/15 18:45	71-43-2	
Bromodichloromethane	ND	mg/L	0.0050	1		04/16/15 18:45	75-27-4	
Bromoform	ND	mg/L	0.0050	1		04/16/15 18:45	75-25-2	
Bromomethane	ND	mg/L	0.0050	1		04/16/15 18:45	74-83-9	
2-Butanone (MEK)	ND	mg/L	0.010	1		04/16/15 18:45	78-93-3	
Carbon disulfide	ND	mg/L	0.0050	1		04/16/15 18:45	75-15-0	

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ESTADO LIBRE ASOCIADO DE PUERTO RICO
QUIMICO LICENCIADO
Maria de los A. Negrón #5118

ANALYTICAL RESULTS

Project: SRS Arecibo 7100830
Pace Project No.: 2018538

Sample: W-2-1 **Lab ID: 2018538006** Collected: 04/15/15 10:03 Received: 04/15/15 13:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Carbon tetrachloride	ND	mg/L	0.0050	1		04/16/15 18:45	56-23-5	
Chlorobenzene	ND	mg/L	0.0050	1		04/16/15 18:45	108-90-7	
Chloroethane	ND	mg/L	0.0050	1		04/16/15 18:45	75-00-3	
Chloroform	ND	mg/L	0.0050	1		04/16/15 18:45	67-66-3	
Chloromethane	ND	mg/L	0.0050	1		04/16/15 18:45	74-87-3	
1,2-Dibromo-3-chloropropane	ND	mg/L	0.0050	1		04/16/15 18:45	96-12-8	
Dibromochloromethane	ND	mg/L	0.0050	1		04/16/15 18:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/L	0.0050	1		04/16/15 18:45	106-93-4	
1,2-Dichlorobenzene	ND	mg/L	0.0050	1		04/16/15 18:45	95-50-1	
1,3-Dichlorobenzene	ND	mg/L	0.0050	1		04/16/15 18:45	541-73-1	
1,4-Dichlorobenzene	ND	mg/L	0.0050	1		04/16/15 18:45	106-46-7	
Dichlorodifluoromethane	ND	mg/L	0.0050	1		04/16/15 18:45	75-71-8	
1,1-Dichloroethane	ND	mg/L	0.0050	1		04/16/15 18:45	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0050	1		04/16/15 18:45	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0050	1		04/16/15 18:45	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0050	1		04/16/15 18:45	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0050	1		04/16/15 18:45	156-60-5	
1,2-Dichloropropane	ND	mg/L	0.0050	1		04/16/15 18:45	78-87-5	
cis-1,3-Dichloropropene	ND	mg/L	0.0050	1		04/16/15 18:45	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/L	0.0050	1		04/16/15 18:45	10061-02-6	
Ethylbenzene	ND	mg/L	0.0050	1		04/16/15 18:45	100-41-4	
2-Hexanone	ND	mg/L	0.010	1		04/16/15 18:45	591-78-6	
Isopropylbenzene (Cumene)	ND	mg/L	0.0050	1		04/16/15 18:45	98-82-8	
Methyl acetate	ND	mg/L	0.010	1		04/16/15 18:45	79-20-9	
Methylene Chloride	ND	mg/L	0.0050	1		04/16/15 18:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/L	0.010	1		04/16/15 18:45	108-10-1	
Methyl-tert-butyl ether	ND	mg/L	0.0050	1		04/16/15 18:45	1634-04-4	
Styrene	ND	mg/L	0.0050	1		04/16/15 18:45	100-42-5	
1,1,2,2-Tetrachloroethane	ND	mg/L	0.0050	1		04/16/15 18:45	79-34-5	
Tetrachloroethene	ND	mg/L	0.0050	1		04/16/15 18:45	127-18-4	
Toluene	ND	mg/L	0.0050	1		04/16/15 18:45	108-88-3	
1,1,1-Trichloroethane	ND	mg/L	0.0050	1		04/16/15 18:45	71-55-6	
1,1,2-Trichloroethane	ND	mg/L	0.0050	1		04/16/15 18:45	79-00-5	
Trichloroethene	ND	mg/L	0.0050	1		04/16/15 18:45	79-01-6	
Trichlorofluoromethane	ND	mg/L	0.0050	1		04/16/15 18:45	75-69-4	
Vinyl chloride	ND	mg/L	0.0020	1		04/16/15 18:45	75-01-4	
m&p-Xylene	ND	mg/L	0.010	1		04/16/15 18:45	179601-23-1	
o-Xylene	ND	mg/L	0.0050	1		04/16/15 18:45	95-47-6	
Surrogates								
Toluene-d8 (S)	109	%.	70-123	1		04/16/15 18:45	2037-26-5	
4-Bromofluorobenzene (S)	113	%.	62-134	1		04/16/15 18:45	460-00-4	
Dibromofluoromethane (S)	111	%.	64-130	1		04/16/15 18:45	1868-53-7	

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ESTADO LIBRE ASOCIADO DE PUERTO RICO
María de los A. Negrón #5118
QUIMICO LICENCIADO

ANALYTICAL RESULTS

Project: SRS Arecibo 7100830
Pace Project No.: 2018538

Sample: W-2-2 **Lab ID: 2018538007** Collected: 04/15/15 10:06 Received: 04/15/15 13:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 Metals, Total	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	mg/L	0.060	1	04/17/15 05:00	04/17/15 19:01	7440-36-0	
Arsenic	**0.010**	mg/L	0.010	1	04/17/15 05:00	04/17/15 19:01	7440-38-2	
Barium	ND	mg/L	0.20	1	04/17/15 05:00	04/17/15 19:01	7440-39-3	
Beryllium	ND	mg/L	0.0050	1	04/17/15 05:00	04/17/15 19:01	7440-41-7	
Cadmium	ND	mg/L	0.0050	1	04/17/15 05:00	04/17/15 19:01	7440-43-9	
Chromium	ND	mg/L	0.010	1	04/17/15 05:00	04/17/15 19:01	7440-47-3	
Cobalt	ND	mg/L	0.010	1	04/17/15 05:00	04/17/15 19:01	7440-48-4	
Copper	ND	mg/L	0.010	1	04/17/15 05:00	04/17/15 19:01	7440-50-8	
Lead	ND	mg/L	0.0050	1	04/17/15 05:00	04/17/15 19:01	7439-92-1	
Nickel	ND	mg/L	0.040	1	04/17/15 05:00	04/17/15 19:01	7440-02-0	
Selenium	ND	mg/L	0.020	1	04/17/15 05:00	04/17/15 19:01	7782-49-2	
Silver	ND	mg/L	0.010	1	04/17/15 05:00	04/17/15 19:01	7440-22-4	
Thallium	ND	mg/L	0.010	1	04/17/15 05:00	04/17/15 19:01	7440-28-0	
Vanadium	ND	mg/L	0.050	1	04/17/15 05:00	04/17/15 19:01	7440-62-2	
Zinc	ND	mg/L	0.020	1	04/17/15 05:00	04/17/15 19:01	7440-66-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	mg/L	0.010	1		04/16/15 19:05	67-64-1	
Benzene	ND	mg/L	0.0050	1		04/16/15 19:05	71-43-2	
Bromodichloromethane	ND	mg/L	0.0050	1		04/16/15 19:05	75-27-4	
Bromoform	ND	mg/L	0.0050	1		04/16/15 19:05	75-25-2	
Bromomethane	ND	mg/L	0.0050	1		04/16/15 19:05	74-83-9	
2-Butanone (MEK)	ND	mg/L	0.010	1		04/16/15 19:05	78-93-3	
Carbon disulfide	ND	mg/L	0.0050	1		04/16/15 19:05	75-15-0	
Carbon tetrachloride	ND	mg/L	0.0050	1		04/16/15 19:05	56-23-5	
Chlorobenzene	ND	mg/L	0.0050	1		04/16/15 19:05	108-90-7	
Chloroethane	ND	mg/L	0.0050	1		04/16/15 19:05	75-00-3	
Chloroform	ND	mg/L	0.0050	1		04/16/15 19:05	67-66-3	
Chloromethane	ND	mg/L	0.0050	1		04/16/15 19:05	74-87-3	
1,2-Dibromo-3-chloropropane	ND	mg/L	0.0050	1		04/16/15 19:05	96-12-8	
Dibromochloromethane	ND	mg/L	0.0050	1		04/16/15 19:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/L	0.0050	1		04/16/15 19:05	106-93-4	
1,2-Dichlorobenzene	ND	mg/L	0.0050	1		04/16/15 19:05	95-50-1	
1,3-Dichlorobenzene	ND	mg/L	0.0050	1		04/16/15 19:05	541-73-1	
1,4-Dichlorobenzene	ND	mg/L	0.0050	1		04/16/15 19:05	106-46-7	
Dichlorodifluoromethane	ND	mg/L	0.0050	1		04/16/15 19:05	75-71-8	
1,1-Dichloroethane	ND	mg/L	0.0050	1		04/16/15 19:05	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0050	1		04/16/15 19:05	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0050	1		04/16/15 19:05	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0050	1		04/16/15 19:05	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0050	1		04/16/15 19:05	156-60-5	
1,2-Dichloropropane	ND	mg/L	0.0050	1		04/16/15 19:05	78-87-5	
cis-1,3-Dichloropropene	ND	mg/L	0.0050	1		04/16/15 19:05	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/L	0.0050	1		04/16/15 19:05	10061-02-6	
Ethylbenzene	ND	mg/L	0.0050	1		04/16/15 19:05	100-41-4	
2-Hexanone	ND	mg/L	0.010	1		04/16/15 19:05	591-78-6	
Isopropylbenzene (Cumene)	ND	mg/L	0.0050	1		04/16/15 19:05	98-82-8	

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ESTADO LIBRE ASOCIADO DE PUERTO RICO
María de los A. Negrón #5118
QUIMICO LICENCIADO

ANALYTICAL RESULTS

Project: SRS Arecibo 7100830
Pace Project No.: 2018538

Sample: W-2-2 **Lab ID: 2018538007** Collected: 04/15/15 10:06 Received: 04/15/15 13:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Methyl acetate	ND	mg/L	0.010	1		04/16/15 19:05	79-20-9	
Methylene Chloride	ND	mg/L	0.0050	1		04/16/15 19:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/L	0.010	1		04/16/15 19:05	108-10-1	
Methyl-tert-butyl ether	ND	mg/L	0.0050	1		04/16/15 19:05	1634-04-4	
Styrene	ND	mg/L	0.0050	1		04/16/15 19:05	100-42-5	
1,1,2,2-Tetrachloroethane	ND	mg/L	0.0050	1		04/16/15 19:05	79-34-5	
Tetrachloroethene	ND	mg/L	0.0050	1		04/16/15 19:05	127-18-4	
Toluene	ND	mg/L	0.0050	1		04/16/15 19:05	108-88-3	
1,1,1-Trichloroethane	ND	mg/L	0.0050	1		04/16/15 19:05	71-55-6	
1,1,2-Trichloroethane	ND	mg/L	0.0050	1		04/16/15 19:05	79-00-5	
Trichloroethene	ND	mg/L	0.0050	1		04/16/15 19:05	79-01-6	
Trichlorofluoromethane	ND	mg/L	0.0050	1		04/16/15 19:05	75-69-4	
Vinyl chloride	ND	mg/L	0.0020	1		04/16/15 19:05	75-01-4	
m&p-Xylene	ND	mg/L	0.010	1		04/16/15 19:05	179601-23-1	
o-Xylene	ND	mg/L	0.0050	1		04/16/15 19:05	95-47-6	
Surrogates								
Toluene-d8 (S)	109	%.	70-123	1		04/16/15 19:05	2037-26-5	
4-Bromofluorobenzene (S)	109	%.	62-134	1		04/16/15 19:05	460-00-4	
Dibromofluoromethane (S)	115	%.	64-130	1		04/16/15 19:05	1868-53-7	

Sample: W-1-1 **Lab ID: 2018538008** Collected: 04/15/15 10:42 Received: 04/15/15 13:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 Metals, Total	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	mg/L	0.060	1	04/17/15 05:00	04/17/15 19:04	7440-36-0	
Arsenic	ND	mg/L	0.010	1	04/17/15 05:00	04/17/15 19:04	7440-38-2	
Barium	ND	mg/L	0.20	1	04/17/15 05:00	04/17/15 19:04	7440-39-3	
Beryllium	ND	mg/L	0.0050	1	04/17/15 05:00	04/17/15 19:04	7440-41-7	
Cadmium	ND	mg/L	0.0050	1	04/17/15 05:00	04/17/15 19:04	7440-43-9	
Chromium	ND	mg/L	0.010	1	04/17/15 05:00	04/17/15 19:04	7440-47-3	
Cobalt	ND	mg/L	0.010	1	04/17/15 05:00	04/17/15 19:04	7440-48-4	
Copper	ND	mg/L	0.010	1	04/17/15 05:00	04/17/15 19:04	7440-50-8	
Lead	ND	mg/L	0.0050	1	04/17/15 05:00	04/17/15 19:04	7439-92-1	
Nickel	ND	mg/L	0.040	1	04/17/15 05:00	04/17/15 19:04	7440-02-0	
Selenium	ND	mg/L	0.020	1	04/17/15 05:00	04/17/15 19:04	7782-49-2	
Silver	ND	mg/L	0.010	1	04/17/15 05:00	04/17/15 19:04	7440-22-4	
Thallium	ND	mg/L	0.010	1	04/17/15 05:00	04/17/15 19:04	7440-28-0	
Vanadium	ND	mg/L	0.050	1	04/17/15 05:00	04/17/15 19:04	7440-62-2	
Zinc	ND	mg/L	0.020	1	04/17/15 05:00	04/17/15 19:04	7440-66-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	mg/L	0.010	1		04/16/15 19:24	67-64-1	
Benzene	ND	mg/L	0.0050	1		04/16/15 19:24	71-43-2	
Bromodichloromethane	ND	mg/L	0.0050	1		04/16/15 19:24	75-27-4	

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ESTADO LIBRE ASOCIADO DE PUERTO RICO
María de los A. Negrón #5118
QUIMICO LICENCIADO

ANALYTICAL RESULTS

Project: SRS Arecibo 7100830
Pace Project No.: 2018538

Sample: W-1-1 **Lab ID: 2018538008** Collected: 04/15/15 10:42 Received: 04/15/15 13:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Bromoform	ND	mg/L	0.0050	1		04/16/15 19:24	75-25-2	
Bromomethane	ND	mg/L	0.0050	1		04/16/15 19:24	74-83-9	
2-Butanone (MEK)	ND	mg/L	0.010	1		04/16/15 19:24	78-93-3	
Carbon disulfide	ND	mg/L	0.0050	1		04/16/15 19:24	75-15-0	
Carbon tetrachloride	ND	mg/L	0.0050	1		04/16/15 19:24	56-23-5	
Chlorobenzene	ND	mg/L	0.0050	1		04/16/15 19:24	108-90-7	
Chloroethane	ND	mg/L	0.0050	1		04/16/15 19:24	75-00-3	
Chloroform	ND	mg/L	0.0050	1		04/16/15 19:24	67-66-3	
Chloromethane	ND	mg/L	0.0050	1		04/16/15 19:24	74-87-3	
1,2-Dibromo-3-chloropropane	ND	mg/L	0.0050	1		04/16/15 19:24	96-12-8	
Dibromochloromethane	ND	mg/L	0.0050	1		04/16/15 19:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/L	0.0050	1		04/16/15 19:24	106-93-4	
1,2-Dichlorobenzene	ND	mg/L	0.0050	1		04/16/15 19:24	95-50-1	
1,3-Dichlorobenzene	ND	mg/L	0.0050	1		04/16/15 19:24	541-73-1	
1,4-Dichlorobenzene	ND	mg/L	0.0050	1		04/16/15 19:24	106-46-7	
Dichlorodifluoromethane	ND	mg/L	0.0050	1		04/16/15 19:24	75-71-8	
1,1-Dichloroethane	ND	mg/L	0.0050	1		04/16/15 19:24	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0050	1		04/16/15 19:24	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0050	1		04/16/15 19:24	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0050	1		04/16/15 19:24	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0050	1		04/16/15 19:24	156-60-5	
1,2-Dichloropropane	ND	mg/L	0.0050	1		04/16/15 19:24	78-87-5	
cis-1,3-Dichloropropene	ND	mg/L	0.0050	1		04/16/15 19:24	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/L	0.0050	1		04/16/15 19:24	10061-02-6	
Ethylbenzene	ND	mg/L	0.0050	1		04/16/15 19:24	100-41-4	
2-Hexanone	ND	mg/L	0.010	1		04/16/15 19:24	591-78-6	
Isopropylbenzene (Cumene)	ND	mg/L	0.0050	1		04/16/15 19:24	98-82-8	
Methyl acetate	ND	mg/L	0.010	1		04/16/15 19:24	79-20-9	
Methylene Chloride	ND	mg/L	0.0050	1		04/16/15 19:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/L	0.010	1		04/16/15 19:24	108-10-1	
Methyl-tert-butyl ether	ND	mg/L	0.0050	1		04/16/15 19:24	1634-04-4	
Styrene	ND	mg/L	0.0050	1		04/16/15 19:24	100-42-5	
1,1,2,2-Tetrachloroethane	ND	mg/L	0.0050	1		04/16/15 19:24	79-34-5	
Tetrachloroethene	ND	mg/L	0.0050	1		04/16/15 19:24	127-18-4	
Toluene	ND	mg/L	0.0050	1		04/16/15 19:24	108-88-3	
1,1,1-Trichloroethane	ND	mg/L	0.0050	1		04/16/15 19:24	71-55-6	
1,1,2-Trichloroethane	ND	mg/L	0.0050	1		04/16/15 19:24	79-00-5	
Trichloroethene	ND	mg/L	0.0050	1		04/16/15 19:24	79-01-6	
Trichlorofluoromethane	ND	mg/L	0.0050	1		04/16/15 19:24	75-69-4	
Vinyl chloride	ND	mg/L	0.0020	1		04/16/15 19:24	75-01-4	
m&p-Xylene	ND	mg/L	0.010	1		04/16/15 19:24	179601-23-1	
o-Xylene	ND	mg/L	0.0050	1		04/16/15 19:24	95-47-6	
Surrogates								
Toluene-d8 (S)	117	%.	70-123	1		04/16/15 19:24	2037-26-5	
4-Bromofluorobenzene (S)	123	%.	62-134	1		04/16/15 19:24	460-00-4	
Dibromofluoromethane (S)	121	%.	64-130	1		04/16/15 19:24	1868-53-7	

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ESTADO LIBRE ASOCIADO DE PUERTO RICO
María de los A. Negrón #5118
QUIMICO LICENCIADO

ANALYTICAL RESULTS

Project: SRS Arecibo 7100830
Pace Project No.: 2018538

Sample: W-1-2 Lab ID: 2018538009 Collected: 04/15/15 10:45 Received: 04/15/15 13:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 Metals, Total	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	mg/L	0.060	1	04/17/15 05:00	04/17/15 19:08	7440-36-0	
Arsenic	ND	mg/L	0.010	1	04/17/15 05:00	04/17/15 19:08	7440-38-2	
Barium	ND	mg/L	0.20	1	04/17/15 05:00	04/17/15 19:08	7440-39-3	
Beryllium	ND	mg/L	0.0050	1	04/17/15 05:00	04/17/15 19:08	7440-41-7	
Cadmium	ND	mg/L	0.0050	1	04/17/15 05:00	04/17/15 19:08	7440-43-9	
Chromium	ND	mg/L	0.010	1	04/17/15 05:00	04/17/15 19:08	7440-47-3	
Cobalt	ND	mg/L	0.010	1	04/17/15 05:00	04/17/15 19:08	7440-48-4	
Copper	ND	mg/L	0.010	1	04/17/15 05:00	04/17/15 19:08	7440-50-8	
Lead	ND	mg/L	0.0050	1	04/17/15 05:00	04/17/15 19:08	7439-92-1	
Nickel	ND	mg/L	0.040	1	04/17/15 05:00	04/17/15 19:08	7440-02-0	
Selenium	ND	mg/L	0.020	1	04/17/15 05:00	04/17/15 19:08	7782-49-2	
Silver	ND	mg/L	0.010	1	04/17/15 05:00	04/17/15 19:08	7440-22-4	
Thallium	ND	mg/L	0.010	1	04/17/15 05:00	04/17/15 19:08	7440-28-0	
Vanadium	ND	mg/L	0.050	1	04/17/15 05:00	04/17/15 19:08	7440-62-2	
Zinc	ND	mg/L	0.020	1	04/17/15 05:00	04/17/15 19:08	7440-66-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	mg/L	0.010	1		04/16/15 19:44	67-64-1	
Benzene	ND	mg/L	0.0050	1		04/16/15 19:44	71-43-2	
Bromodichloromethane	ND	mg/L	0.0050	1		04/16/15 19:44	75-27-4	
Bromoform	ND	mg/L	0.0050	1		04/16/15 19:44	75-25-2	
Bromomethane	ND	mg/L	0.0050	1		04/16/15 19:44	74-83-9	
2-Butanone (MEK)	ND	mg/L	0.010	1		04/16/15 19:44	78-93-3	
Carbon disulfide	ND	mg/L	0.0050	1		04/16/15 19:44	75-15-0	
Carbon tetrachloride	ND	mg/L	0.0050	1		04/16/15 19:44	56-23-5	
Chlorobenzene	ND	mg/L	0.0050	1		04/16/15 19:44	108-90-7	
Chloroethane	ND	mg/L	0.0050	1		04/16/15 19:44	75-00-3	
Chloroform	ND	mg/L	0.0050	1		04/16/15 19:44	67-66-3	
Chloromethane	ND	mg/L	0.0050	1		04/16/15 19:44	74-87-3	
1,2-Dibromo-3-chloropropane	ND	mg/L	0.0050	1		04/16/15 19:44	96-12-8	
Dibromochloromethane	ND	mg/L	0.0050	1		04/16/15 19:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/L	0.0050	1		04/16/15 19:44	106-93-4	
1,2-Dichlorobenzene	ND	mg/L	0.0050	1		04/16/15 19:44	95-50-1	
1,3-Dichlorobenzene	ND	mg/L	0.0050	1		04/16/15 19:44	541-73-1	
1,4-Dichlorobenzene	ND	mg/L	0.0050	1		04/16/15 19:44	106-46-7	
Dichlorodifluoromethane	ND	mg/L	0.0050	1		04/16/15 19:44	75-71-8	
1,1-Dichloroethane	ND	mg/L	0.0050	1		04/16/15 19:44	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0050	1		04/16/15 19:44	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0050	1		04/16/15 19:44	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0050	1		04/16/15 19:44	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0050	1		04/16/15 19:44	156-60-5	
1,2-Dichloropropane	ND	mg/L	0.0050	1		04/16/15 19:44	78-87-5	
cis-1,3-Dichloropropene	ND	mg/L	0.0050	1		04/16/15 19:44	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/L	0.0050	1		04/16/15 19:44	10061-02-6	
Ethylbenzene	ND	mg/L	0.0050	1		04/16/15 19:44	100-41-4	
2-Hexanone	ND	mg/L	0.010	1		04/16/15 19:44	591-78-6	
Isopropylbenzene (Cumene)	ND	mg/L	0.0050	1		04/16/15 19:44	98-82-8	

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María de los A. Negrón #5118
QUIMICO LICENCIADO

ANALYTICAL RESULTS

Project: SRS Arecibo 7100830
Pace Project No.: 2018538

Sample: W-1-2 Lab ID: 2018538009 Collected: 04/15/15 10:45 Received: 04/15/15 13:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Methyl acetate	ND	mg/L	0.010	1		04/16/15 19:44	79-20-9	
Methylene Chloride	ND	mg/L	0.0050	1		04/16/15 19:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/L	0.010	1		04/16/15 19:44	108-10-1	
Methyl-tert-butyl ether	ND	mg/L	0.0050	1		04/16/15 19:44	1634-04-4	
Styrene	ND	mg/L	0.0050	1		04/16/15 19:44	100-42-5	
1,1,2,2-Tetrachloroethane	ND	mg/L	0.0050	1		04/16/15 19:44	79-34-5	
Tetrachloroethene	ND	mg/L	0.0050	1		04/16/15 19:44	127-18-4	
Toluene	ND	mg/L	0.0050	1		04/16/15 19:44	108-88-3	
1,1,1-Trichloroethane	ND	mg/L	0.0050	1		04/16/15 19:44	71-55-6	
1,1,2-Trichloroethane	ND	mg/L	0.0050	1		04/16/15 19:44	79-00-5	
Trichloroethene	ND	mg/L	0.0050	1		04/16/15 19:44	79-01-6	
Trichlorofluoromethane	ND	mg/L	0.0050	1		04/16/15 19:44	75-69-4	
Vinyl chloride	ND	mg/L	0.0020	1		04/16/15 19:44	75-01-4	
m&p-Xylene	ND	mg/L	0.010	1		04/16/15 19:44	179601-23-1	
o-Xylene	ND	mg/L	0.0050	1		04/16/15 19:44	95-47-6	
Surrogates								
Toluene-d8 (S)	92	%.	70-123	1		04/16/15 19:44	2037-26-5	
4-Bromofluorobenzene (S)	97	%.	62-134	1		04/16/15 19:44	460-00-4	
Dibromofluoromethane (S)	95	%.	64-130	1		04/16/15 19:44	1868-53-7	

Sample: W-5-1 Lab ID: 2018538010 Collected: 04/15/15 11:20 Received: 04/15/15 13:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 Metals, Total	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	mg/L	0.060	1	04/17/15 05:00	04/17/15 19:12	7440-36-0	
Arsenic	ND	mg/L	0.010	1	04/17/15 05:00	04/17/15 19:12	7440-38-2	
Barium	ND	mg/L	0.20	1	04/17/15 05:00	04/17/15 19:12	7440-39-3	
Beryllium	ND	mg/L	0.0050	1	04/17/15 05:00	04/17/15 19:12	7440-41-7	
Cadmium	ND	mg/L	0.0050	1	04/17/15 05:00	04/17/15 19:12	7440-43-9	
Chromium	**0.014**	mg/L	0.010	1	04/17/15 05:00	04/17/15 19:12	7440-47-3	
Cobalt	ND	mg/L	0.010	1	04/17/15 05:00	04/17/15 19:12	7440-48-4	
Copper	ND	mg/L	0.010	1	04/17/15 05:00	04/17/15 19:12	7440-50-8	
Lead	ND	mg/L	0.0050	1	04/17/15 05:00	04/17/15 19:12	7439-92-1	
Nickel	ND	mg/L	0.040	1	04/17/15 05:00	04/17/15 19:12	7440-02-0	
Selenium	ND	mg/L	0.020	1	04/17/15 05:00	04/17/15 19:12	7782-49-2	
Silver	ND	mg/L	0.010	1	04/17/15 05:00	04/17/15 19:12	7440-22-4	
Thallium	ND	mg/L	0.010	1	04/17/15 05:00	04/17/15 19:12	7440-28-0	
Vanadium	ND	mg/L	0.050	1	04/17/15 05:00	04/17/15 19:12	7440-62-2	
Zinc	ND	mg/L	0.020	1	04/17/15 05:00	04/17/15 19:12	7440-66-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	mg/L	0.010	1		04/16/15 20:04	67-64-1	
Benzene	ND	mg/L	0.0050	1		04/16/15 20:04	71-43-2	
Bromodichloromethane	ND	mg/L	0.0050	1		04/16/15 20:04	75-27-4	

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ESTADO LIBRE ASOCIADO DE PUERTO RICO
QUIMICO LICENCIADO
María de los A. Negrón #5118

ANALYTICAL RESULTS

Project: SRS Arecibo 7100830
Pace Project No.: 2018538

Sample: W-5-1 Lab ID: 2018538010 Collected: 04/15/15 11:20 Received: 04/15/15 13:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Bromoform	ND	mg/L	0.0050	1		04/16/15 20:04	75-25-2	
Bromomethane	ND	mg/L	0.0050	1		04/16/15 20:04	74-83-9	
2-Butanone (MEK)	ND	mg/L	0.010	1		04/16/15 20:04	78-93-3	
Carbon disulfide	ND	mg/L	0.0050	1		04/16/15 20:04	75-15-0	
Carbon tetrachloride	ND	mg/L	0.0050	1		04/16/15 20:04	56-23-5	
Chlorobenzene	ND	mg/L	0.0050	1		04/16/15 20:04	108-90-7	
Chloroethane	ND	mg/L	0.0050	1		04/16/15 20:04	75-00-3	
Chloroform	ND	mg/L	0.0050	1		04/16/15 20:04	67-66-3	
Chloromethane	ND	mg/L	0.0050	1		04/16/15 20:04	74-87-3	
1,2-Dibromo-3-chloropropane	ND	mg/L	0.0050	1		04/16/15 20:04	96-12-8	
Dibromochloromethane	ND	mg/L	0.0050	1		04/16/15 20:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/L	0.0050	1		04/16/15 20:04	106-93-4	
1,2-Dichlorobenzene	ND	mg/L	0.0050	1		04/16/15 20:04	95-50-1	
1,3-Dichlorobenzene	ND	mg/L	0.0050	1		04/16/15 20:04	541-73-1	
1,4-Dichlorobenzene	ND	mg/L	0.0050	1		04/16/15 20:04	106-46-7	
Dichlorodifluoromethane	ND	mg/L	0.0050	1		04/16/15 20:04	75-71-8	
1,1-Dichloroethane	ND	mg/L	0.0050	1		04/16/15 20:04	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0050	1		04/16/15 20:04	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0050	1		04/16/15 20:04	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0050	1		04/16/15 20:04	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0050	1		04/16/15 20:04	156-60-5	
1,2-Dichloropropane	ND	mg/L	0.0050	1		04/16/15 20:04	78-87-5	
cis-1,3-Dichloropropene	ND	mg/L	0.0050	1		04/16/15 20:04	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/L	0.0050	1		04/16/15 20:04	10061-02-6	
Ethylbenzene	ND	mg/L	0.0050	1		04/16/15 20:04	100-41-4	
2-Hexanone	ND	mg/L	0.010	1		04/16/15 20:04	591-78-6	
Isopropylbenzene (Cumene)	ND	mg/L	0.0050	1		04/16/15 20:04	98-82-8	
Methyl acetate	ND	mg/L	0.010	1		04/16/15 20:04	79-20-9	
Methylene Chloride	ND	mg/L	0.0050	1		04/16/15 20:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/L	0.010	1		04/16/15 20:04	108-10-1	
Methyl-tert-butyl ether	ND	mg/L	0.0050	1		04/16/15 20:04	1634-04-4	
Styrene	ND	mg/L	0.0050	1		04/16/15 20:04	100-42-5	
1,1,2,2-Tetrachloroethane	ND	mg/L	0.0050	1		04/16/15 20:04	79-34-5	
Tetrachloroethene	ND	mg/L	0.0050	1		04/16/15 20:04	127-18-4	
Toluene	ND	mg/L	0.0050	1		04/16/15 20:04	108-88-3	
1,1,1-Trichloroethane	ND	mg/L	0.0050	1		04/16/15 20:04	71-55-6	
1,1,2-Trichloroethane	ND	mg/L	0.0050	1		04/16/15 20:04	79-00-5	
Trichloroethene	ND	mg/L	0.0050	1		04/16/15 20:04	79-01-6	
Trichlorofluoromethane	ND	mg/L	0.0050	1		04/16/15 20:04	75-69-4	
Vinyl chloride	ND	mg/L	0.0020	1		04/16/15 20:04	75-01-4	
m&p-Xylene	ND	mg/L	0.010	1		04/16/15 20:04	179601-23-1	
o-Xylene	ND	mg/L	0.0050	1		04/16/15 20:04	95-47-6	
Surrogates								
Toluene-d8 (S)	119	%.	70-123	1		04/16/15 20:04	2037-26-5	
4-Bromofluorobenzene (S)	125	%.	62-134	1		04/16/15 20:04	460-00-4	
Dibromofluoromethane (S)	125	%.	64-130	1		04/16/15 20:04	1868-53-7	

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ESTADO LIBRE ASOCIADO DE PUERTO RICO
María de los A. Negrón #5118
QUIMICO LICENCIADO

ANALYTICAL RESULTS

Project: SRS Arecibo 7100830
Pace Project No.: 2018538

Sample: W-5-2 **Lab ID: 2018538011** Collected: 04/15/15 11:23 Received: 04/15/15 13:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 Metals, Total	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	mg/L	0.060	1	04/17/15 05:00	04/17/15 19:16	7440-36-0	
Arsenic	ND	mg/L	0.010	1	04/17/15 05:00	04/17/15 19:16	7440-38-2	
Barium	ND	mg/L	0.20	1	04/17/15 05:00	04/17/15 19:16	7440-39-3	
Beryllium	ND	mg/L	0.0050	1	04/17/15 05:00	04/17/15 19:16	7440-41-7	
Cadmium	ND	mg/L	0.0050	1	04/17/15 05:00	04/17/15 19:16	7440-43-9	
Chromium	**0.012**	mg/L	0.010	1	04/17/15 05:00	04/17/15 19:16	7440-47-3	
Cobalt	ND	mg/L	0.010	1	04/17/15 05:00	04/17/15 19:16	7440-48-4	
Copper	ND	mg/L	0.010	1	04/17/15 05:00	04/17/15 19:16	7440-50-8	
Lead	ND	mg/L	0.0050	1	04/17/15 05:00	04/17/15 19:16	7439-92-1	
Nickel	ND	mg/L	0.040	1	04/17/15 05:00	04/17/15 19:16	7440-02-0	
Selenium	ND	mg/L	0.020	1	04/17/15 05:00	04/17/15 19:16	7782-49-2	
Silver	ND	mg/L	0.010	1	04/17/15 05:00	04/17/15 19:16	7440-22-4	
Thallium	ND	mg/L	0.010	1	04/17/15 05:00	04/17/15 19:16	7440-28-0	
Vanadium	ND	mg/L	0.050	1	04/17/15 05:00	04/17/15 19:16	7440-62-2	
Zinc	ND	mg/L	0.020	1	04/17/15 05:00	04/17/15 19:16	7440-66-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	mg/L	0.010	1		04/16/15 20:23	67-64-1	
Benzene	ND	mg/L	0.0050	1		04/16/15 20:23	71-43-2	
Bromodichloromethane	ND	mg/L	0.0050	1		04/16/15 20:23	75-27-4	
Bromoform	ND	mg/L	0.0050	1		04/16/15 20:23	75-25-2	
Bromomethane	ND	mg/L	0.0050	1		04/16/15 20:23	74-83-9	
2-Butanone (MEK)	ND	mg/L	0.010	1		04/16/15 20:23	78-93-3	
Carbon disulfide	ND	mg/L	0.0050	1		04/16/15 20:23	75-15-0	
Carbon tetrachloride	ND	mg/L	0.0050	1		04/16/15 20:23	56-23-5	
Chlorobenzene	ND	mg/L	0.0050	1		04/16/15 20:23	108-90-7	
Chloroethane	ND	mg/L	0.0050	1		04/16/15 20:23	75-00-3	
Chloroform	ND	mg/L	0.0050	1		04/16/15 20:23	67-66-3	
Chloromethane	ND	mg/L	0.0050	1		04/16/15 20:23	74-87-3	
1,2-Dibromo-3-chloropropane	ND	mg/L	0.0050	1		04/16/15 20:23	96-12-8	
Dibromochloromethane	ND	mg/L	0.0050	1		04/16/15 20:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/L	0.0050	1		04/16/15 20:23	106-93-4	
1,2-Dichlorobenzene	ND	mg/L	0.0050	1		04/16/15 20:23	95-50-1	
1,3-Dichlorobenzene	ND	mg/L	0.0050	1		04/16/15 20:23	541-73-1	
1,4-Dichlorobenzene	ND	mg/L	0.0050	1		04/16/15 20:23	106-46-7	
Dichlorodifluoromethane	ND	mg/L	0.0050	1		04/16/15 20:23	75-71-8	
1,1-Dichloroethane	ND	mg/L	0.0050	1		04/16/15 20:23	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0050	1		04/16/15 20:23	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0050	1		04/16/15 20:23	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0050	1		04/16/15 20:23	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0050	1		04/16/15 20:23	156-60-5	
1,2-Dichloropropane	ND	mg/L	0.0050	1		04/16/15 20:23	78-87-5	
cis-1,3-Dichloropropene	ND	mg/L	0.0050	1		04/16/15 20:23	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/L	0.0050	1		04/16/15 20:23	10061-02-6	
Ethylbenzene	ND	mg/L	0.0050	1		04/16/15 20:23	100-41-4	
2-Hexanone	ND	mg/L	0.010	1		04/16/15 20:23	591-78-6	
Isopropylbenzene (Cumene)	ND	mg/L	0.0050	1		04/16/15 20:23	98-82-8	

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ESTADO LIBRE ASOCIADO DE PUERTO RICO
QUIMICO LICENCIADO
María de los A. Negrón #5118

ANALYTICAL RESULTS

Project: SRS Arecibo 7100830
Pace Project No.: 2018538

Sample: W-5-2 Lab ID: 2018538011 Collected: 04/15/15 11:23 Received: 04/15/15 13:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Methyl acetate	ND	mg/L	0.010	1		04/16/15 20:23	79-20-9	
Methylene Chloride	ND	mg/L	0.0050	1		04/16/15 20:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/L	0.010	1		04/16/15 20:23	108-10-1	
Methyl-tert-butyl ether	ND	mg/L	0.0050	1		04/16/15 20:23	1634-04-4	
Styrene	ND	mg/L	0.0050	1		04/16/15 20:23	100-42-5	
1,1,2,2-Tetrachloroethane	ND	mg/L	0.0050	1		04/16/15 20:23	79-34-5	
Tetrachloroethene	ND	mg/L	0.0050	1		04/16/15 20:23	127-18-4	
Toluene	ND	mg/L	0.0050	1		04/16/15 20:23	108-88-3	
1,1,1-Trichloroethane	ND	mg/L	0.0050	1		04/16/15 20:23	71-55-6	
1,1,2-Trichloroethane	ND	mg/L	0.0050	1		04/16/15 20:23	79-00-5	
Trichloroethene	ND	mg/L	0.0050	1		04/16/15 20:23	79-01-6	
Trichlorofluoromethane	ND	mg/L	0.0050	1		04/16/15 20:23	75-69-4	
Vinyl chloride	ND	mg/L	0.0020	1		04/16/15 20:23	75-01-4	
m&p-Xylene	ND	mg/L	0.010	1		04/16/15 20:23	179601-23-1	
o-Xylene	ND	mg/L	0.0050	1		04/16/15 20:23	95-47-6	
Surrogates								
Toluene-d8 (S)	114	%.	70-123	1		04/16/15 20:23	2037-26-5	
4-Bromofluorobenzene (S)	113	%.	62-134	1		04/16/15 20:23	460-00-4	
Dibromofluoromethane (S)	120	%.	64-130	1		04/16/15 20:23	1868-53-7	

Sample: FB-041515 Lab ID: 2018538012 Collected: 04/15/15 11:36 Received: 04/15/15 13:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	mg/L	0.010	1		04/16/15 20:43	67-64-1	
Benzene	ND	mg/L	0.0050	1		04/16/15 20:43	71-43-2	
Bromodichloromethane	ND	mg/L	0.0050	1		04/16/15 20:43	75-27-4	
Bromoform	ND	mg/L	0.0050	1		04/16/15 20:43	75-25-2	
Bromomethane	ND	mg/L	0.0050	1		04/16/15 20:43	74-83-9	
2-Butanone (MEK)	ND	mg/L	0.010	1		04/16/15 20:43	78-93-3	
Carbon disulfide	ND	mg/L	0.0050	1		04/16/15 20:43	75-15-0	
Carbon tetrachloride	ND	mg/L	0.0050	1		04/16/15 20:43	56-23-5	
Chlorobenzene	ND	mg/L	0.0050	1		04/16/15 20:43	108-90-7	
Chloroethane	ND	mg/L	0.0050	1		04/16/15 20:43	75-00-3	
Chloroform	ND	mg/L	0.0050	1		04/16/15 20:43	67-66-3	
Chloromethane	ND	mg/L	0.0050	1		04/16/15 20:43	74-87-3	
1,2-Dibromo-3-chloropropane	ND	mg/L	0.0050	1		04/16/15 20:43	96-12-8	
Dibromochloromethane	ND	mg/L	0.0050	1		04/16/15 20:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/L	0.0050	1		04/16/15 20:43	106-93-4	
1,2-Dichlorobenzene	ND	mg/L	0.0050	1		04/16/15 20:43	95-50-1	
1,3-Dichlorobenzene	ND	mg/L	0.0050	1		04/16/15 20:43	541-73-1	
1,4-Dichlorobenzene	ND	mg/L	0.0050	1		04/16/15 20:43	106-46-7	
Dichlorodifluoromethane	ND	mg/L	0.0050	1		04/16/15 20:43	75-71-8	
1,1-Dichloroethane	ND	mg/L	0.0050	1		04/16/15 20:43	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0050	1		04/16/15 20:43	107-06-2	

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ANALYTICAL RESULTS

Project: SRS Arecibo 7100830
Pace Project No.: 2018538

Sample: FB-041515 **Lab ID: 2018538012** Collected: 04/15/15 11:36 Received: 04/15/15 13:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,1-Dichloroethene	ND	mg/L	0.0050	1		04/16/15 20:43	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0050	1		04/16/15 20:43	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0050	1		04/16/15 20:43	156-60-5	
1,2-Dichloropropane	ND	mg/L	0.0050	1		04/16/15 20:43	78-87-5	
cis-1,3-Dichloropropene	ND	mg/L	0.0050	1		04/16/15 20:43	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/L	0.0050	1		04/16/15 20:43	10061-02-6	
Ethylbenzene	ND	mg/L	0.0050	1		04/16/15 20:43	100-41-4	
2-Hexanone	ND	mg/L	0.010	1		04/16/15 20:43	591-78-6	
Isopropylbenzene (Cumene)	ND	mg/L	0.0050	1		04/16/15 20:43	98-82-8	
Methyl acetate	ND	mg/L	0.010	1		04/16/15 20:43	79-20-9	
Methylene Chloride	ND	mg/L	0.0050	1		04/16/15 20:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/L	0.010	1		04/16/15 20:43	108-10-1	
Methyl-tert-butyl ether	ND	mg/L	0.0050	1		04/16/15 20:43	1634-04-4	
Styrene	ND	mg/L	0.0050	1		04/16/15 20:43	100-42-5	
1,1,2,2-Tetrachloroethane	ND	mg/L	0.0050	1		04/16/15 20:43	79-34-5	
Tetrachloroethene	ND	mg/L	0.0050	1		04/16/15 20:43	127-18-4	
Toluene	ND	mg/L	0.0050	1		04/16/15 20:43	108-88-3	
1,1,1-Trichloroethane	ND	mg/L	0.0050	1		04/16/15 20:43	71-55-6	
1,1,2-Trichloroethane	ND	mg/L	0.0050	1		04/16/15 20:43	79-00-5	
Trichloroethene	ND	mg/L	0.0050	1		04/16/15 20:43	79-01-6	
Trichlorofluoromethane	ND	mg/L	0.0050	1		04/16/15 20:43	75-69-4	
Vinyl chloride	ND	mg/L	0.0020	1		04/16/15 20:43	75-01-4	
m&p-Xylene	ND	mg/L	0.010	1		04/16/15 20:43	179601-23-1	
o-Xylene	ND	mg/L	0.0050	1		04/16/15 20:43	95-47-6	
Surrogates								
Toluene-d8 (S)	114	%.	70-123	1		04/16/15 20:43	2037-26-5	
4-Bromofluorobenzene (S)	118	%.	62-134	1		04/16/15 20:43	460-00-4	
Dibromofluoromethane (S)	121	%.	64-130	1		04/16/15 20:43	1868-53-7	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: SRS Arecibo 7100830
Pace Project No.: 2018538

QC Batch: MPRP/2591 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 2018538002, 2018538003, 2018538004, 2018538005, 2018538006, 2018538007, 2018538008, 2018538009, 2018538010, 2018538011

METHOD BLANK: 112280 Matrix: Water
Associated Lab Samples: 2018538002, 2018538003, 2018538004, 2018538005, 2018538006, 2018538007, 2018538008, 2018538009, 2018538010, 2018538011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	mg/L	ND	0.060	04/17/15 17:33	
Arsenic	mg/L	ND	0.010	04/17/15 17:33	
Barium	mg/L	ND	0.20	04/17/15 17:33	
Beryllium	mg/L	ND	0.0050	04/17/15 17:33	
Cadmium	mg/L	ND	0.0050	04/17/15 17:33	
Chromium	mg/L	ND	0.010	04/17/15 17:33	
Cobalt	mg/L	ND	0.010	04/17/15 17:33	
Copper	mg/L	ND	0.010	04/17/15 17:33	
Lead	mg/L	ND	0.0050	04/17/15 17:33	
Nickel	mg/L	ND	0.040	04/17/15 17:33	
Selenium	mg/L	ND	0.020	04/17/15 17:33	
Silver	mg/L	ND	0.010	04/17/15 17:33	
Thallium	mg/L	ND	0.010	04/17/15 17:33	
Vanadium	mg/L	ND	0.050	04/17/15 17:33	
Zinc	mg/L	ND	0.020	04/17/15 17:33	B

LABORATORY CONTROL SAMPLE: 112281

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	1	1.1	106	82-120	
Arsenic	mg/L	1	1.0	104	84-117	
Barium	mg/L	1	1.0	103	85-118	
Beryllium	mg/L	1	1.0	105	85-117	
Cadmium	mg/L	1	1.0	105	85-115	
Chromium	mg/L	1	1.0	104	83-117	
Cobalt	mg/L	1	1.1	105	85-117	
Copper	mg/L	1	1.0	104	85-116	
Lead	mg/L	1	1.1	106	84-118	
Nickel	mg/L	1	1.1	106	85-118	
Selenium	mg/L	1	1.0	105	85-116	
Silver	mg/L	.5	0.52	105	80-120	
Thallium	mg/L	1	1.0	104	85-118	
Vanadium	mg/L	1	1.0	104	85-116	
Zinc	mg/L	1	1.0	104	81-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: SRS Arecibo 7100830
Pace Project No.: 2018538

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 112282 112283

Parameter	Units	2018528001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	1	1	1.0	1.0	100	102	80-120	2	20	
Arsenic	mg/L	11.7 ug/L	1	1	1.0	1.1	101	104	80-120	3	20	
Barium	mg/L	88.5J ug/L	1	1	1.1	1.1	99	103	80-120	4	20	
Beryllium	mg/L	ND	1	1	1.0	1.1	101	106	80-120	4	20	
Cadmium	mg/L	7.2 ug/L	1	1	0.98	1.0	97	100	80-120	3	20	
Chromium	mg/L	18.2 ug/L	1	1	1.0	1.0	99	103	80-120	4	20	
Cobalt	mg/L	ND	1	1	0.96	1.0	96	100	80-120	3	20	
Copper	mg/L	2.5J ug/L	1	1	1.0	1.0	100	104	80-120	4	20	
Lead	mg/L	2.9J ug/L	1	1	0.96	0.99	96	98	80-120	3	20	
Nickel	mg/L	10.0J ug/L	1	1	0.97	1.0	96	100	80-120	3	20	
Selenium	mg/L	8.7J ug/L	1	1	1.0	1.0	99	103	80-120	4	20	
Silver	mg/L	ND	.5	.5	0.49	0.50	98	101	80-120	3	20	
Thallium	mg/L	ND	1	1	0.92	0.95	92	95	80-120	3	20	
Vanadium	mg/L	13.1J ug/L	1	1	1.0	1.1	101	105	80-120	4	20	
Zinc	mg/L	21.3 ug/L	1	1	0.98	1.0	96	99	80-120	3	20	

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(504)469-0333

QUALITY CONTROL DATA

Project: SRS Arecibo 7100830
Pace Project No.: 2018538

QC Batch: MSV/2878 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 2018538001, 2018538002, 2018538003, 2018538004, 2018538005, 2018538006, 2018538007, 2018538008, 2018538009, 2018538010, 2018538011, 2018538012

METHOD BLANK: 112178 Matrix: Water
Associated Lab Samples: 2018538001, 2018538002, 2018538003, 2018538004, 2018538005, 2018538006, 2018538007, 2018538008, 2018538009, 2018538010, 2018538011, 2018538012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0050	04/16/15 09:54	
1,1,2,2-Tetrachloroethane	mg/L	ND	0.0050	04/16/15 09:54	
1,1,2-Trichloroethane	mg/L	ND	0.0050	04/16/15 09:54	
1,1-Dichloroethane	mg/L	ND	0.0050	04/16/15 09:54	
1,1-Dichloroethene	mg/L	ND	0.0050	04/16/15 09:54	
1,2-Dibromo-3-chloropropane	mg/L	ND	0.0050	04/16/15 09:54	
1,2-Dibromoethane (EDB)	mg/L	ND	0.0050	04/16/15 09:54	
1,2-Dichlorobenzene	mg/L	ND	0.0050	04/16/15 09:54	
1,2-Dichloroethane	mg/L	ND	0.0050	04/16/15 09:54	
1,2-Dichloropropane	mg/L	ND	0.0050	04/16/15 09:54	
1,3-Dichlorobenzene	mg/L	ND	0.0050	04/16/15 09:54	
1,4-Dichlorobenzene	mg/L	ND	0.0050	04/16/15 09:54	
2-Butanone (MEK)	mg/L	ND	0.010	04/16/15 09:54	
2-Hexanone	mg/L	ND	0.010	04/16/15 09:54	
4-Methyl-2-pentanone (MIBK)	mg/L	ND	0.010	04/16/15 09:54	
Acetone	mg/L	ND	0.010	04/16/15 09:54	
Benzene	mg/L	ND	0.0050	04/16/15 09:54	
Bromodichloromethane	mg/L	ND	0.0050	04/16/15 09:54	
Bromoform	mg/L	ND	0.0050	04/16/15 09:54	
Bromomethane	mg/L	ND	0.0050	04/16/15 09:54	
Carbon disulfide	mg/L	ND	0.0050	04/16/15 09:54	
Carbon tetrachloride	mg/L	ND	0.0050	04/16/15 09:54	
Chlorobenzene	mg/L	ND	0.0050	04/16/15 09:54	
Chloroethane	mg/L	ND	0.0050	04/16/15 09:54	
Chloroform	mg/L	ND	0.0050	04/16/15 09:54	
Chloromethane	mg/L	ND	0.0050	04/16/15 09:54	
cis-1,2-Dichloroethene	mg/L	ND	0.0050	04/16/15 09:54	
cis-1,3-Dichloropropene	mg/L	ND	0.0050	04/16/15 09:54	
Dibromochloromethane	mg/L	ND	0.0050	04/16/15 09:54	
Dichlorodifluoromethane	mg/L	ND	0.0050	04/16/15 09:54	
Ethylbenzene	mg/L	ND	0.0050	04/16/15 09:54	
Isopropylbenzene (Cumene)	mg/L	ND	0.0050	04/16/15 09:54	
m&p-Xylene	mg/L	ND	0.010	04/16/15 09:54	
Methyl acetate	mg/L	ND	0.010	04/16/15 09:54	
Methyl-tert-butyl ether	mg/L	ND	0.0050	04/16/15 09:54	
Methylene Chloride	mg/L	ND	0.0050	04/16/15 09:54	
o-Xylene	mg/L	ND	0.0050	04/16/15 09:54	
Styrene	mg/L	ND	0.0050	04/16/15 09:54	
Tetrachloroethene	mg/L	ND	0.0050	04/16/15 09:54	
Toluene	mg/L	ND	0.0050	04/16/15 09:54	

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QUALITY CONTROL DATA

Project: SRS Arecibo 7100830
Pace Project No.: 2018538

METHOD BLANK: 112178 Matrix: Water

Associated Lab Samples: 2018538001, 2018538002, 2018538003, 2018538004, 2018538005, 2018538006, 2018538007, 2018538008, 2018538009, 2018538010, 2018538011, 2018538012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,2-Dichloroethene	mg/L	ND	0.0050	04/16/15 09:54	
trans-1,3-Dichloropropene	mg/L	ND	0.0050	04/16/15 09:54	
Trichloroethene	mg/L	ND	0.0050	04/16/15 09:54	
Trichlorofluoromethane	mg/L	ND	0.0050	04/16/15 09:54	
Vinyl chloride	mg/L	ND	0.0020	04/16/15 09:54	
4-Bromofluorobenzene (S)	%.	104	62-134	04/16/15 09:54	
Dibromofluoromethane (S)	%.	107	64-130	04/16/15 09:54	
Toluene-d8 (S)	%.	96	70-123	04/16/15 09:54	

LABORATORY CONTROL SAMPLE: 112179

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	.05	0.047	94	65-132	
1,1,2,2-Tetrachloroethane	mg/L	.05	0.054	108	46-153	
1,1,2-Trichloroethane	mg/L	.05	0.050	99	64-140	
1,1-Dichloroethane	mg/L	.05	0.050	99	63-135	
1,1-Dichloroethene	mg/L	.05	0.053	106	50-151	
1,2-Dibromo-3-chloropropane	mg/L	.05	0.051	103	40-155	
1,2-Dibromoethane (EDB)	mg/L	.05	0.052	105	62-146	
1,2-Dichlorobenzene	mg/L	.05	0.049	98	70-129	
1,2-Dichloroethane	mg/L	.05	0.046	93	58-150	
1,2-Dichloropropane	mg/L	.05	0.048	96	66-131	
1,3-Dichlorobenzene	mg/L	.05	0.048	95	69-127	
1,4-Dichlorobenzene	mg/L	.05	0.049	99	71-128	
2-Butanone (MEK)	mg/L	.05	0.074	147	18-173	
2-Hexanone	mg/L	.05	0.055	110	29-158	
4-Methyl-2-pentanone (MIBK)	mg/L	.05	0.055	110	46-159	
Acetone	mg/L	.05	0.048	95	10-198	
Benzene	mg/L	.05	0.054	108	68-129	
Bromodichloromethane	mg/L	.05	0.047	93	68-132	
Bromoform	mg/L	.05	0.051	101	56-153	
Bromomethane	mg/L	.05	0.055	111	47-149	
Carbon disulfide	mg/L	.05	0.051	102	25-166	
Carbon tetrachloride	mg/L	.05	0.044	88	56-146	
Chlorobenzene	mg/L	.05	0.050	99	74-131	
Chloroethane	mg/L	.05	0.055	111	28-190	
Chloroform	mg/L	.05	0.047	95	71-132	
Chloromethane	mg/L	.05	0.044	89	27-154	
cis-1,2-Dichloroethene	mg/L	.05	0.049	98	65-132	
cis-1,3-Dichloropropene	mg/L	.05	0.048	97	66-135	
Dibromochloromethane	mg/L	.05	0.047	94	64-138	
Dichlorodifluoromethane	mg/L	.05	0.051	103	18-173	
Ethylbenzene	mg/L	.05	0.047	95	73-129	

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QUALITY CONTROL DATA

Project: SRS Arecibo 7100830
Pace Project No.: 2018538

LABORATORY CONTROL SAMPLE: 112179

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Isopropylbenzene (Cumene)	mg/L	.05	0.050	101	61-139	
m&p-Xylene	mg/L	.1	0.097	97	71-132	
Methyl acetate	mg/L	.05	0.056	113	20-142	
Methyl-tert-butyl ether	mg/L	.05	0.052	104	51-155	
Methylene Chloride	mg/L	.05	0.048	96	41-171	
o-Xylene	mg/L	.05	0.049	98	69-129	
Styrene	mg/L	.05	0.049	98	74-132	
Tetrachloroethene	mg/L	.05	0.050	100	57-151	
Toluene	mg/L	.05	0.049	98	70-130	
trans-1,2-Dichloroethene	mg/L	.05	0.050	101	56-137	
trans-1,3-Dichloropropene	mg/L	.05	0.050	100	62-146	
Trichloroethene	mg/L	.05	0.044	88	71-131	
Trichlorofluoromethane	mg/L	.05	0.061	121	37-188	
Vinyl chloride	mg/L	.05	0.048	95	42-148	
4-Bromofluorobenzene (S)	%.			109	62-134	
Dibromofluoromethane (S)	%.			107	64-130	
Toluene-d8 (S)	%.			104	70-123	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 112180 112181

Parameter	Units	2018510002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	mg/L	ND	.05	.05	0.046	0.046	93	92	61-138	0	20	
1,1,2,2-Tetrachloroethane	mg/L	ND	.05	.05	0.047	0.048	94	96	41-160	2	20	
1,1,2-Trichloroethane	mg/L	ND	.05	.05	0.045	0.044	91	88	63-145	3	20	
1,1-Dichloroethane	mg/L	ND	.05	.05	0.049	0.048	97	97	61-141	0	20	
1,1-Dichloroethene	mg/L	ND	.05	.05	0.053	0.053	107	106	40-163	0	20	
1,2-Dibromo-3-chloropropane	mg/L	ND	.05	.05	0.044	0.047	88	93	38-162	6	20	
1,2-Dibromoethane (EDB)	mg/L	ND	.05	.05	0.046	0.047	92	94	61-149	2	20	
1,2-Dichlorobenzene	mg/L	ND	.05	.05	0.047	0.048	94	96	70-131	3	20	
1,2-Dichloroethane	mg/L	ND	.05	.05	0.043	0.044	85	87	57-155	3	20	
1,2-Dichloropropane	mg/L	ND	.05	.05	0.046	0.046	93	93	64-137	0	20	
1,3-Dichlorobenzene	mg/L	ND	.05	.05	0.046	0.047	92	93	68-130	1	20	
1,4-Dichlorobenzene	mg/L	ND	.05	.05	0.046	0.048	93	95	70-130	3	20	
2-Butanone (MEK)	mg/L	ND	.05	.05	0.064	0.060	127	120	14-184	6	20	
2-Hexanone	mg/L	ND	.05	.05	0.047	0.047	94	94	27-165	0	20	
4-Methyl-2-pentanone (MIBK)	mg/L	ND	.05	.05	0.048	0.047	97	94	43-165	3	20	
Acetone	mg/L	ND	.05	.05	0.040	0.041	80	82	10-202	2	20	
Benzene	mg/L	ND	.05	.05	0.051	0.052	102	104	60-138	2	20	
Bromodichloromethane	mg/L	ND	.05	.05	0.043	0.044	86	87	66-137	1	20	
Bromoform	mg/L	ND	.05	.05	0.046	0.045	92	90	53-156	3	20	
Bromomethane	mg/L	ND	.05	.05	0.055	0.054	111	107	43-151	3	20	
Carbon disulfide	mg/L	ND	.05	.05	0.053	0.050	105	100	17-176	5	20	
Carbon tetrachloride	mg/L	ND	.05	.05	0.043	0.043	86	86	51-151	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: SRS Arecibo 7100830
Pace Project No.: 2018538

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 112180 112181

Parameter	Units	2018510002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chlorobenzene	mg/L	ND	.05	.05	0.049	0.050	98	100	71-135	2	20	
Chloroethane	mg/L	ND	.05	.05	0.059	0.057	117	114	21-191	3	20	
Chloroform	mg/L	ND	.05	.05	0.046	0.046	92	93	67-138	1	20	
Chloromethane	mg/L	ND	.05	.05	0.046	0.044	92	88	24-158	5	20	
cis-1,2-Dichloroethene	mg/L	ND	.05	.05	0.048	0.047	96	95	61-138	1	20	
cis-1,3-Dichloropropene	mg/L	ND	.05	.05	0.046	0.047	92	94	62-137	2	20	
Dibromochloromethane	mg/L	ND	.05	.05	0.043	0.044	87	87	62-142	0	20	
Dichlorodifluoromethane	mg/L	ND	.05	.05	0.045	0.044	91	88	16-176	4	20	
Ethylbenzene	mg/L	ND	.05	.05	0.048	0.049	94	97	66-136	2	20	
Isopropylbenzene (Cumene)	mg/L	ND	.05	.05	0.050	0.050	100	100	58-144	1	20	
m&p-Xylene	mg/L	ND	.1	.1	0.10	0.10	99	99	64-138	0	20	
Methyl acetate	mg/L	ND	.05	.05	0.046	0.048	91	96	10-142	6	20	
Methyl-tert-butyl ether	mg/L	ND	.05	.05	0.047	0.047	94	93	48-164	0	20	
Methylene Chloride	mg/L	ND	.05	.05	0.049	0.047	98	95	35-165	3	20	
o-Xylene	mg/L	ND	.05	.05	0.051	0.051	100	101	63-136	1	20	
Styrene	mg/L	ND	.05	.05	0.042	0.043	83	86	63-141	3	20	
Tetrachloroethene	mg/L	ND	.05	.05	0.049	0.049	97	97	48-160	0	20	
Toluene	mg/L	ND	.05	.05	0.047	0.047	94	95	62-137	1	20	
trans-1,2-Dichloroethene	mg/L	ND	.05	.05	0.050	0.049	100	99	52-144	1	20	
trans-1,3-Dichloropropene	mg/L	ND	.05	.05	0.046	0.047	93	94	59-151	1	20	
Trichloroethene	mg/L	ND	.05	.05	0.043	0.043	86	87	62-142	1	20	
Trichlorofluoromethane	mg/L	ND	.05	.05	0.063	0.060	126	121	19-196	4	20	
Vinyl chloride	mg/L	ND	.05	.05	0.048	0.046	96	92	35-153	4	20	
4-Bromofluorobenzene (S)	%.						112	119	62-134			
Dibromofluoromethane (S)	%.						108	117	64-130			
Toluene-d8 (S)	%.						107	113	70-123			

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EXHIBIT 2

July 1, 2015

José C. Zayas, PE
Vice-President, Landfill Technologies Corp.
PO Box 1322
Gurabo, Puerto Rico 00778
Tel. 787-273-7639, e-mail: jczayas@landfillpr.com

Re: Monitoring Program
Municipal Solid Waste Landfill
Arecibo, Puerto Rico
(GEO-853-2014)

Dear engineer Zayas:

As part of the monitoring program conducted in Arecibo's municipal solid waste landfill, on April 29 and 30, 2015 we performed readings of the inclinometers installed along the landfill northern portion. Given below are our comments on the readings. The summary of the inclinometer readings and plots is attached.

- The readings from inclinometer I-2 were in the trend of the previous readings (except those from 12/27/13). The readings of this inclinometer seem to indicate the development of buckling of the casing between depths 5 ft and 13 ft. Landfill and soft organic soils were found within these depths when performing the boring (boring B-5) for this inclinometer. Additional readings will better characterize this condition.

- The readings of inclinometer I-3 were consistent with the previous readings and indicate that the casing has maintained deformations in the downslope direction between the depths of approximately 11 ft and 15 ft. On the basis of the log of the boring where this inclinometer was installed (boring B-3), the casing has deformed within landfill. As a result, the casing deformation is probably due to buckling of the casing caused by

vertical and/or lateral deformations developed within the landfill. No cracks were observed at the ground surface to confirm that lateral movements are occurring in the ground.

- The readings of inclinometer I-4 show an upslope deformation at a depth of 11 ft, which is in the vicinity of the contact between the existing upper fill and underlying landfill, and a depth of 3 ft. Two readings were performed (one in April 29 and the second in April 30, 2015) to confirm the casing deformations. The deformation at a depth of 11 ft is probably due to buckling of the inclinometer casing caused by vertical deformations undergoing within the fill and/or landfill. The deformation at a depth of 3 ft is probably caused by a loose casing as this area is constantly subjected to heavy traffic loads. Additional readings would be required to confirm this condition.

We expect to take the next inclinometer readings by August 2015 to verify the behavior of inclinometers I-3 and I-4.

If you have any questions, please do not hesitate to contact us.

Cordially,
GEO Engineering

Carlos E. Rodríguez Pérez, PhD, PE
Geotechnical Engineer

Enclosures

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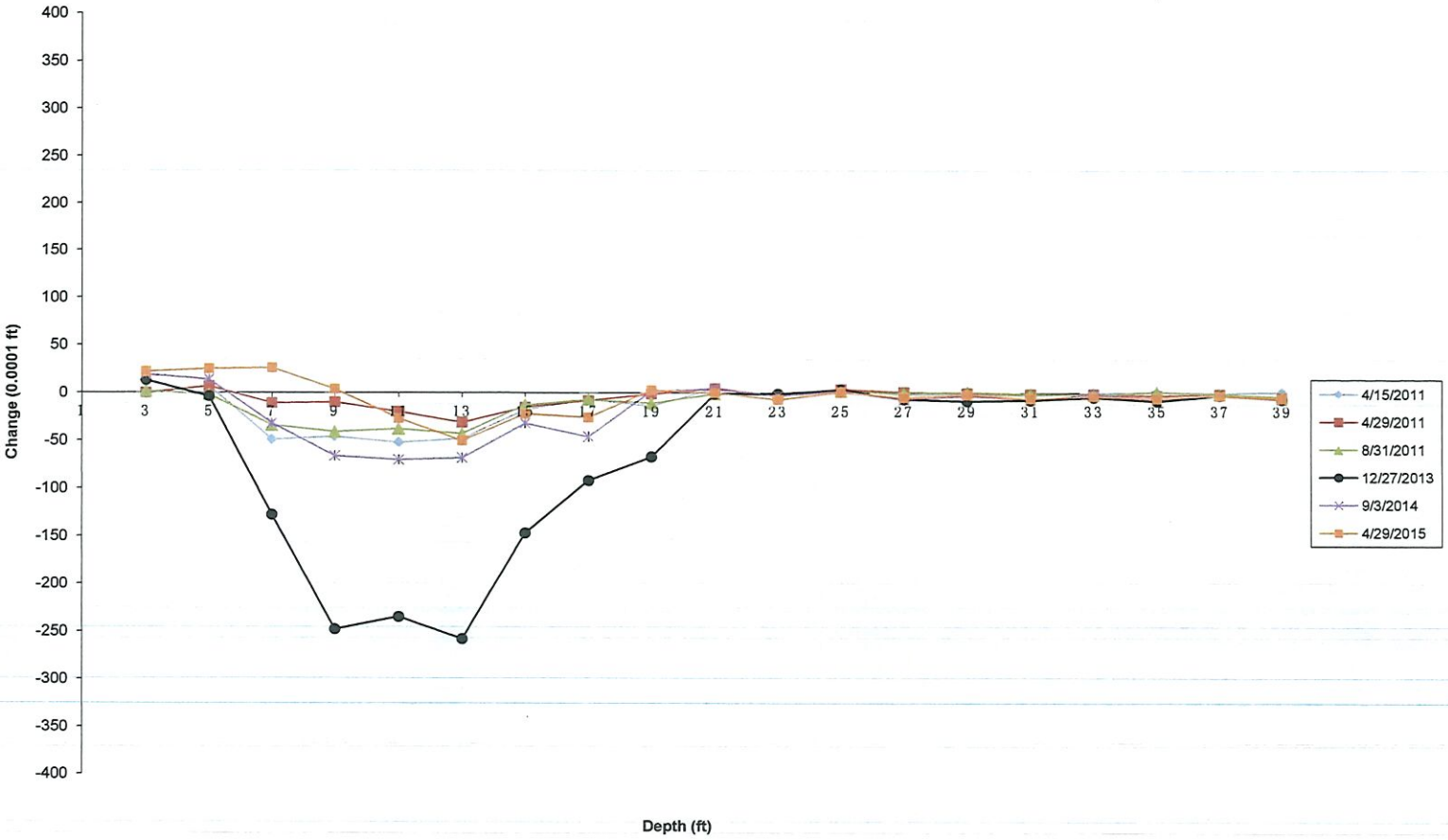
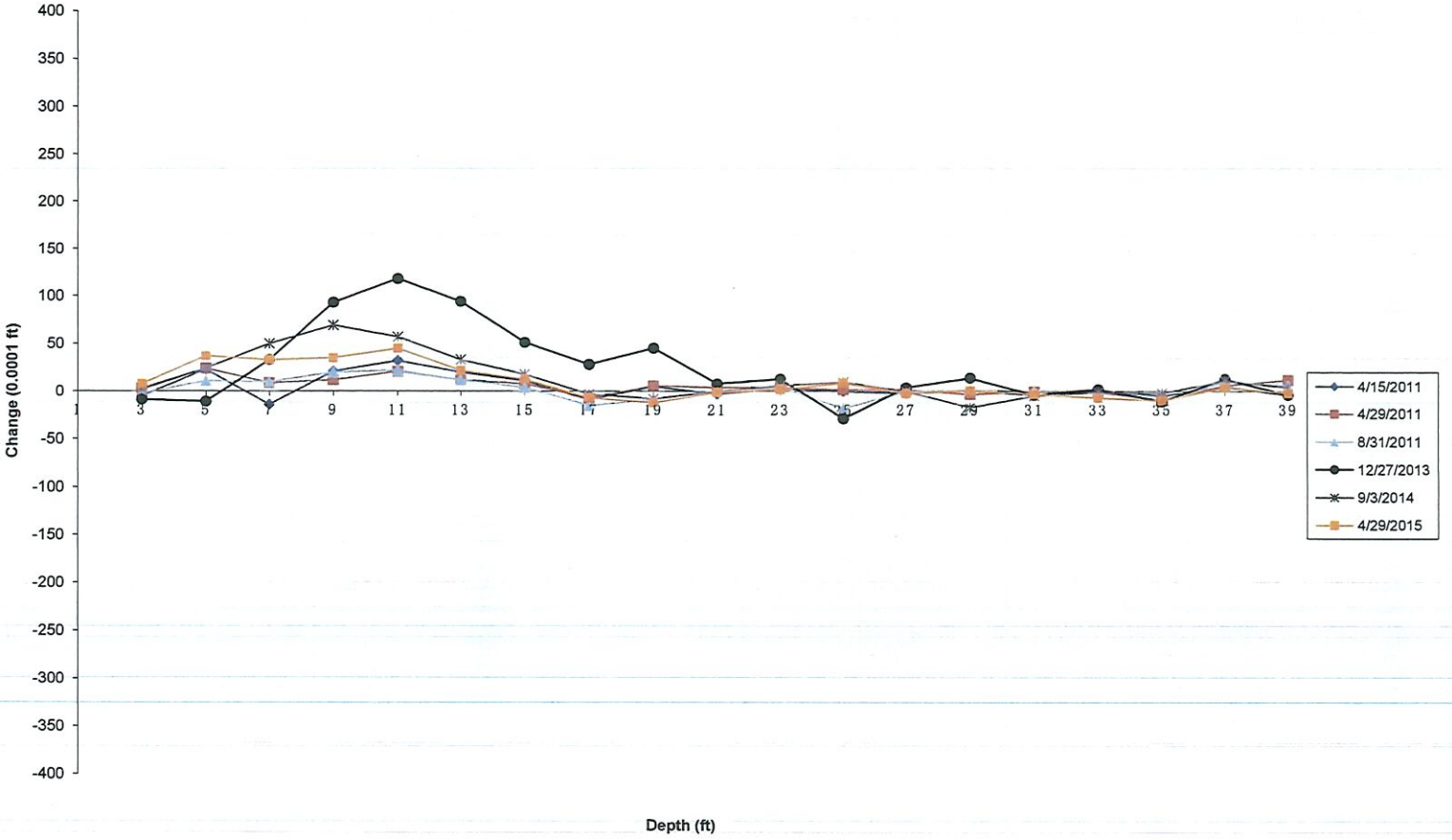
Arecibo' s Municipal Landfill

Inclinometer No. 2A (Bor. 5)



Arecibo' s Municipal Landfill

Inclinometer No. 2B (Bor. 5)

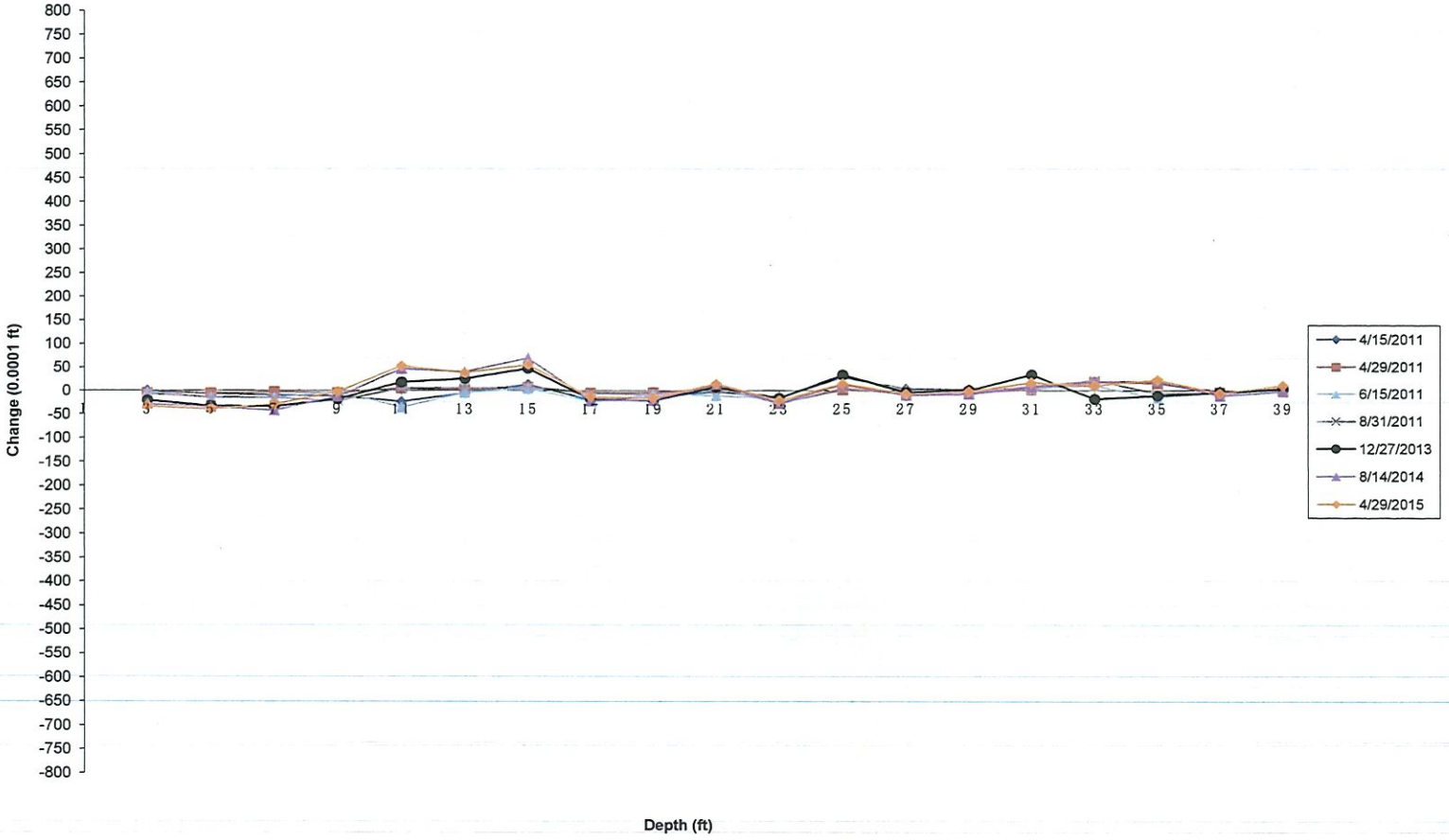


Project:	Arecibo' s Municipal Landfill			*Depth (ft):*	39	*Inclinometer No .*	2A (Bor. 5)	
Date:	4/29/2015			*Read:*	7	*Orientation of A -axis*		
Depth (ft)	Reading 1	Reading 2	Diff.	B - C	Initial	Change	G*.0006	Deflection
3.0	232	-227	5	459	437	22	0.0132	-0.0498
5.0	417	-408	9	825	800	25	0.015	-0.0630
7.0	604	-637	33	1241	1215	26	0.0156	-0.0780
9.0	606	-622	16	1228	1224	4	0.0024	-0.0936
11.0	620	-620	0	1240	1267	-27	-0.0162	-0.0960
13.0	661	-666	5	1327	1377	-50	-0.03	-0.0798
15.0	751	-752	1	1503	1525	-22	-0.0132	-0.0498
17.0	770	-732	38	1502	1528	-26	-0.0156	-0.0366
19.0	794	-722	72	1516	1513	3	0.0018	-0.0210
21.0	807	-855	48	1662	1662	0	0	-0.0228
23.0	774	-766	8	1540	1547	-7	-0.0042	-0.0228
25.0	788	-784	4	1572	1571	1	0.0006	-0.0186
27.0	820	-813	7	1633	1638	-5	-0.003	-0.0192
29.0	746	-742	4	1488	1490	-2	-0.0012	-0.0162
31.0	692	-690	2	1382	1388	-6	-0.0036	-0.0150
33.0	638	-629	9	1267	1271	-4	-0.0024	-0.0114
35.0	611	-610	1	1221	1227	-6	-0.0036	-0.0090
37.0	589	-584	5	1173	1176	-3	-0.0018	-0.0054
39.0	584	-579	5	1163	1169	-6	-0.0036	-0.0036

Project:	Arecibo' s Municipal Landfill			*Depth (ft):*	39	*Inclinometer No .*	2B (Bor. 5)	
Date:	4/29/2015			*Read:*	7	*Orientation of A -axis*		
Depth (ft)	Reading 1	Reading 2	Diff.	B - C	Initial	Change	G*.0006	Deflection
3.0	548	-608	60	1156	1148	8	0.0048	0.0990
5.0	880	-940	60	1820	1783	37	0.0222	0.0942
7.0	1376	-1418	42	2794	2761	33	0.0198	0.0720
9.0	1545	-1597	52	3142	3107	35	0.021	0.0522
11.0	1650	-1767	117	3417	3372	45	0.027	0.0312
13.0	1742	-1832	90	3574	3552	22	0.0132	0.0042
15.0	1778	-1870	92	3648	3635	13	0.0078	-0.0090
17.0	1771	-1836	65	3607	3614	-7	-0.0042	-0.0168
19.0	1606	-1856	250	3462	3474	-12	-0.0072	-0.0126
21.0	1708	-1774	66	3482	3483	-1	-0.0006	-0.0054
23.0	1665	-1748	83	3413	3411	2	0.0012	-0.0048
25.0	1723	-1777	54	3500	3491	9	0.0054	-0.0060
27.0	1748	-1819	71	3567	3569	-2	-0.0012	-0.0114
29.0	1722	-1793	71	3515	3514	1	0.0006	-0.0102
31.0	1716	-1773	57	3489	3492	-3	-0.0018	-0.0108
33.0	1681	-1754	73	3435	3442	-7	-0.0042	-0.0090
35.0	1682	-1754	72	3436	3446	-10	-0.006	-0.0048
37.0	1679	-1748	69	3427	3423	4	0.0024	0.0012
39.0	1689	-1715	26	3404	3406	-2	-0.0012	-0.0012

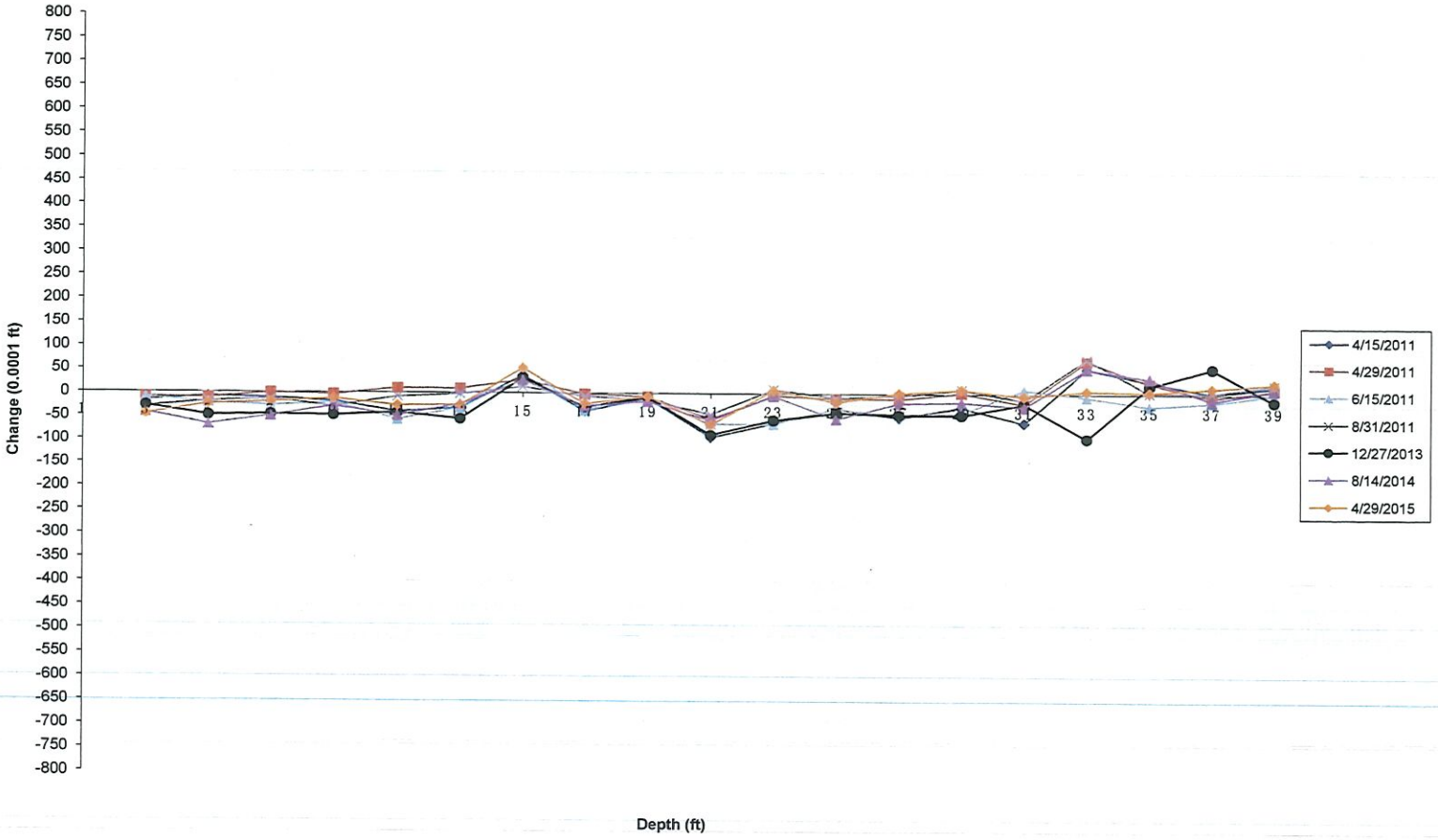
Arecibo' s Municipal Landfill

Inclinometer No. 3A (Bor. 3)



Arecibo' s Municipal Landfill

Inclinometer No. 3B (Bor. 3)

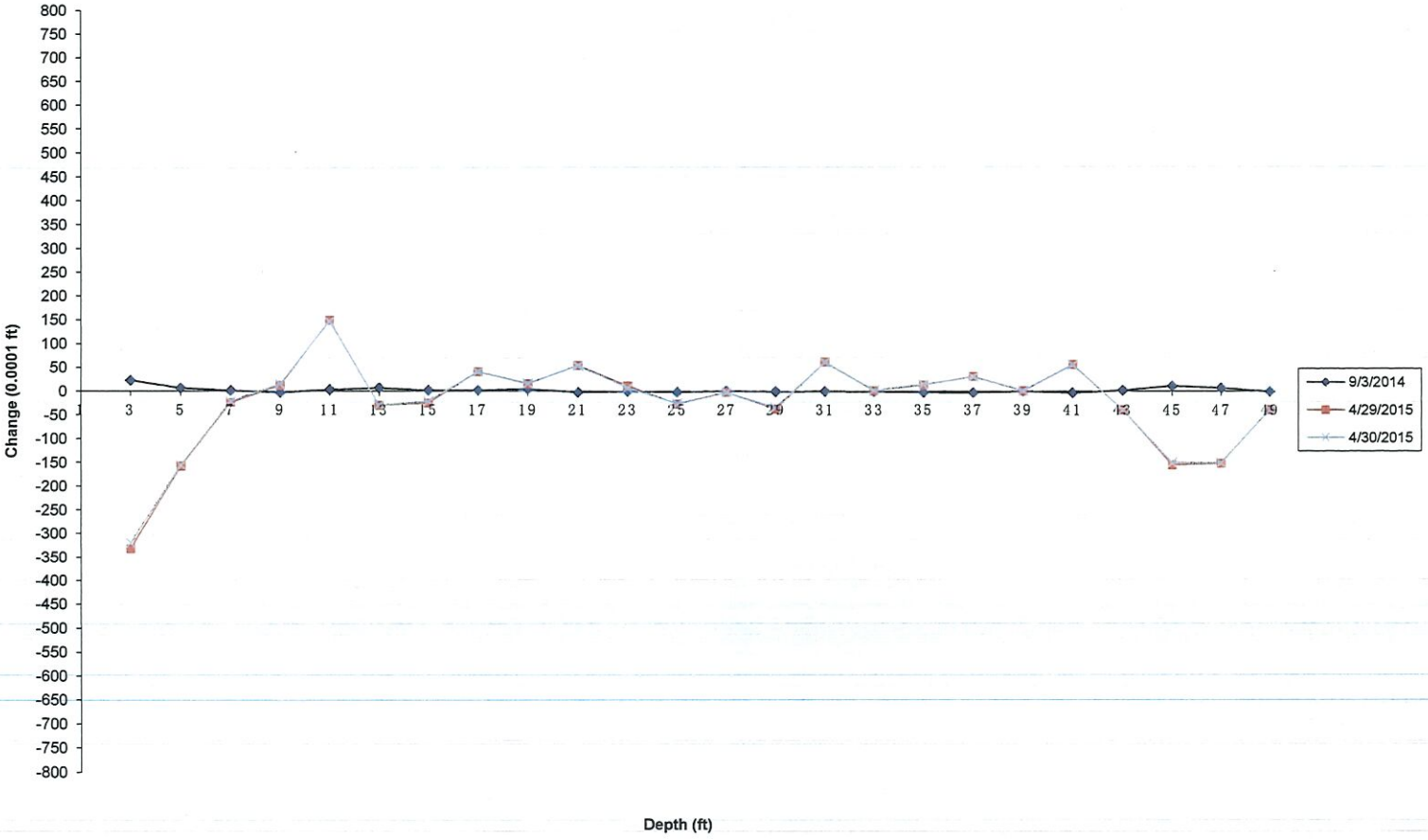


Project:	Arecibo' s Municipal Landfill			*Depth (ft):*	39	*Inclinometer No.*	3A (Bor. 3)	
Date:	4/29/2015			*Read:*	8	*Orientation of A -axis*		
Depth (ft)	Reading 1	Reading 2	Diff.	B - C	Initial	Change	G*.0006	Deflection
3.0	-239	246	7	-485	-452	-34	-0.0201	0.0417
5.0	-252	258	6	-510	-471	-40	-0.0237	0.0618
7.0	-257	253	4	-510	-481	-30	-0.0177	0.0855
9.0	-259	257	2	-516	-514	-2	-0.0012	0.1032
11.0	-288	279	9	-567	-620	53	0.0318	0.1044
13.0	-280	322	42	-602	-641	39	0.0231	0.0726
15.0	-479	522	43	-1001	-1057	56	0.0333	0.0495
17.0	-617	626	9	-1243	-1230	-14	-0.0081	0.0162
19.0	-600	612	12	-1212	-1196	-16	-0.0096	0.0243
21.0	-637	654	17	-1291	-1306	15	0.009	0.0339
23.0	-689	691	2	-1380	-1359	-22	-0.0129	0.0249
25.0	-690	691	1	-1381	-1396	15	0.009	0.0378
27.0	-682	687	5	-1369	-1362	-7	-0.0042	0.0288
29.0	-682	693	11	-1375	-1374	-2	-0.0009	0.0330
31.0	-646	684	38	-1330	-1348	18	0.0105	0.0339
33.0	-599	595	4	-1194	-1205	11	0.0063	0.0234
35.0	-537	550	13	-1087	-1111	24	0.0141	0.0171
37.0	-619	631	12	-1250	-1244	-6	-0.0036	0.0030
39.0	-580	596	16	-1176	-1187	11	0.0066	0.0066

Project:	Arecibo' s Municipal Landfill			*Depth (ft):*	39	*Inclinometer No.*	3B (Bor. 3)	
Date:	4/29/2015			*Read:*	8	*Orientation of A -axis*		
Depth (ft)	Reading 1	Reading 2	Diff.	B - C	Initial	Change	G*.0006	Deflection
3.0	-68	-8	76	-60	-14	-47	-0.0279	-0.0933
5.0	63	-150	87	213	238	-25	-0.015	-0.0654
7.0	149	-257	108	406	426	-20	-0.012	-0.0504
9.0	155	-226	71	381	394	-13	-0.0075	-0.0384
11.0	227	-269	42	496	524	-28	-0.0165	-0.0309
13.0	120	-151	31	271	297	-26	-0.0156	-0.0144
15.0	170	-353	183	523	470	53	0.0318	0.0012
17.0	224	-294	70	518	541	-23	-0.0135	-0.0306
19.0	185	-242	57	427	434	-7	-0.0039	-0.0171
21.0	1	-28	27	29	96	-67	-0.0399	-0.0132
23.0	-111	114	3	-225	-232	7	0.0042	0.0267
25.0	-190	176	14	-366	-348	-18	-0.0108	0.0225
27.0	-100	60	40	-160	-162	2	0.0012	0.0333
29.0	-44	37	7	-81	-91	10	0.0057	0.0321
31.0	29	-148	119	177	182	-5	-0.0027	0.0264
33.0	85	-183	98	268	261	7	0.0042	0.0291
35.0	-17	-37	54	20	16	5	0.0027	0.0249
37.0	-85	4	81	-89	-103	14	0.0081	0.0222
39.0	-53	51	2	-104	-128	24	0.0141	0.0141

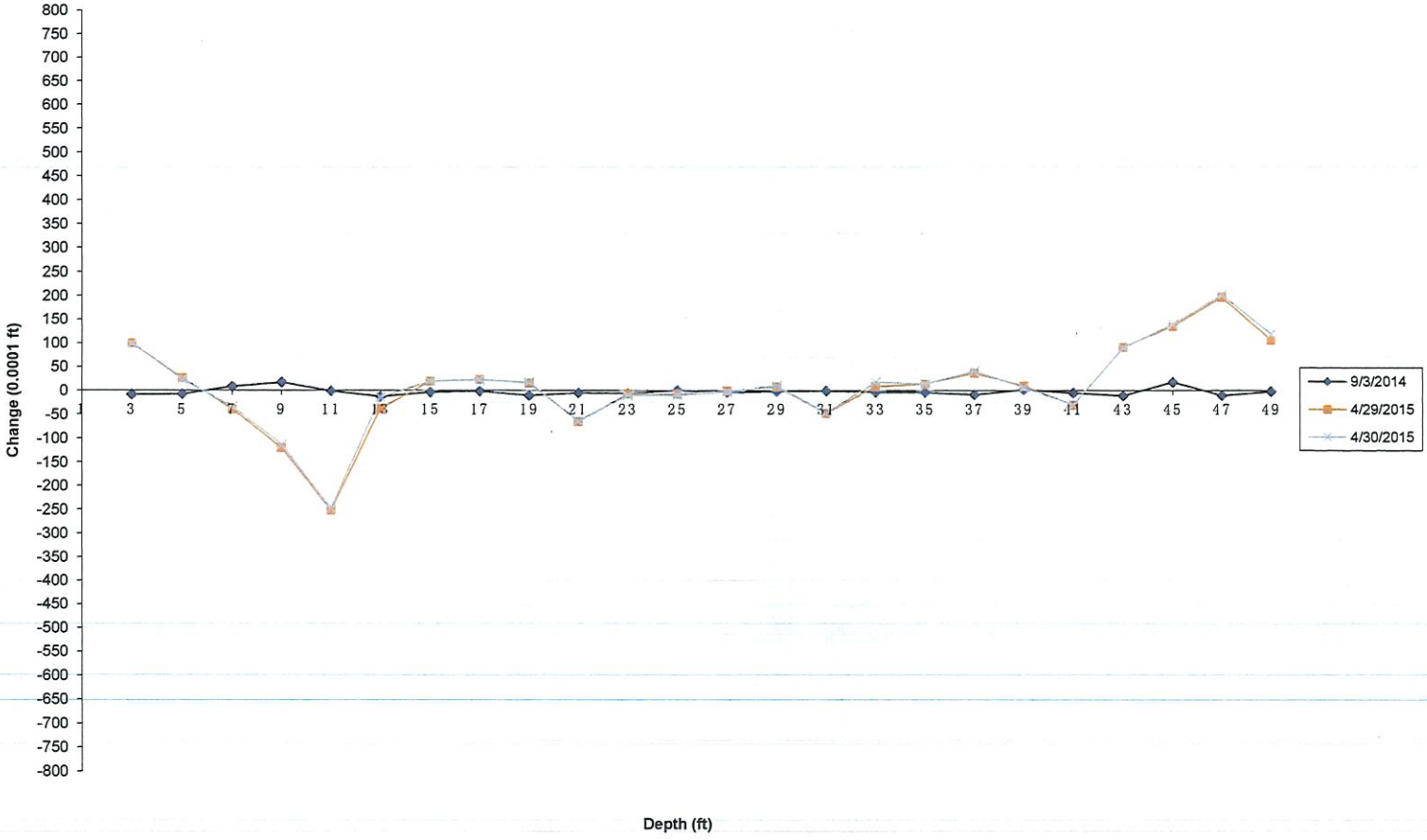
Arecibo' s Municipal Landfill

Inclinometer No. 4A (Bor. 7)



Arecibo' s Municipal Landfill

Inclinometer No. 4B (Bor. 7)



Project:	Arecibo' s Municipal Landfill			*Depth (ft):*	49	*Inclinometer No .*	4A (Bor. 7)	
Date:	4/30/2015			*Read:*	4	*Orientation of A -axis*	- North	
Depth (ft)	Reading 1	Reading 2	Diff.	B - C	Initial	Change	G*.0006	Deflection
3.0	893	-883	10	1776	2096	-320	-0.192	-0.3258
5.0	1183	-1176	7	2359	2515	-156	-0.0933	-0.1338
7.0	1318	-1309	9	2627	2648	-21	-0.0123	-0.0405
9.0	1332	-1326	6	2658	2643	16	0.0093	-0.0282
11.0	1302	-1293	9	2595	2448	148	0.0885	-0.0375
13.0	1247	-1239	8	2486	2516	-30	-0.0177	-0.1260
15.0	1313	-1307	6	2620	2641	-21	-0.0126	-0.1083
17.0	1337	-1331	6	2668	2627	41	0.0246	-0.0957
19.0	1317	-1311	6	2628	2612	17	0.0099	-0.1203
21.0	1321	-1314	7	2635	2582	54	0.0321	-0.1302
23.0	1277	-1269	8	2546	2540	7	0.0039	-0.1623
25.0	1274	-1270	4	2544	2570	-26	-0.0156	-0.1662
27.0	1294	-1288	6	2582	2585	-3	-0.0015	-0.1506
29.0	1290	-1286	4	2576	2610	-34	-0.0204	-0.1491
31.0	1303	-1297	6	2600	2540	61	0.0363	-0.1287
33.0	1268	-1260	8	2528	2526	2	0.0012	-0.1650
35.0	1256	-1249	7	2505	2491	15	0.0087	-0.1662
37.0	1229	-1224	5	2453	2423	30	0.018	-0.1749
39.0	1201	-1194	7	2395	2394	1	0.0006	-0.1929
41.0	1166	-1158	8	2324	2269	56	0.0333	-0.1935
43.0	1142	-1138	4	2280	2319	-39	-0.0234	-0.2268
45.0	1205	-1205	0	2410	2560	-150	-0.09	-0.2034
47.0	1367	-1366	1	2733	2884	-151	-0.0903	-0.1134
49.0	1472	-1480	8	2952	2991	-39	-0.0231	-0.0231

Project:	Arecibo' s Municipal Landfill			*Depth (ft):*	49	*Inclinometer No.*	4B (Bor. 7)	
Date:	4/30/2015			*Read:*	4	*Orientation of A -axis*	- North	
Depth (ft)	Reading 1	Reading 2	Diff.	B - C	Initial	Change	G*.0006	Deflection
3.0	-612	550	62	-1162	-1261	99	0.0591	0.1494
5.0	-690	632	58	-1322	-1346	24	0.0141	0.0903
7.0	-687	627	60	-1314	-1280	-34	-0.0204	0.0762
9.0	-605	553	52	-1158	-1045	-113	-0.0678	0.0966
11.0	-398	371	27	-769	-521	-248	-0.1488	0.1644
13.0	-264	195	69	-459	-445	-14	-0.0084	0.3132
15.0	-270	202	68	-472	-492	20	0.0117	0.3216
17.0	-303	231	72	-534	-557	23	0.0135	0.3099
19.0	-341	270	71	-611	-629	18	0.0105	0.2964
21.0	-354	298	56	-652	-588	-64	-0.0384	0.2859
23.0	-320	253	67	-573	-563	-10	-0.006	0.3243
25.0	-314	251	63	-565	-555	-11	-0.0063	0.3303
27.0	-312	246	66	-558	-555	-3	-0.0018	0.3366
29.0	-312	248	64	-560	-570	10	0.006	0.3384
31.0	-317	266	51	-583	-536	-47	-0.0282	0.3324
33.0	-300	227	73	-527	-545	18	0.0105	0.3606
35.0	-321	255	66	-576	-590	14	0.0084	0.3501
37.0	-358	285	73	-643	-685	42	0.0249	0.3417
39.0	-403	334	69	-737	-743	6	0.0036	0.3168
41.0	-398	329	69	-727	-698	-29	-0.0174	0.3132
43.0	-429	367	62	-796	-886	90	0.054	0.3306
45.0	-542	472	70	-1014	-1154	140	0.0837	0.2766
47.0	-700	632	68	-1332	-1535	203	0.1215	0.1929
49.0	-915	850	65	-1765	-1884	119	0.0714	0.0714