Kendrick, Bret

From: Flores, Raymond
Sent: Tuesday, August 02, 2016 4:12 PM
To: Kendrick, Bret
Cc: Humphrey, Marvelyn; Flores, Raymond; Allen, Bob (PCS); latrice.babin@pcs.hctx.net
Subject: Validated Data - Highland Private Wells - XENCO Laboratories
Attachments: Validated Data - Highlands Private Wells_XENCO_080216.pdf

Bret,

Attached is validated laboratory data for the Highland Private Wells site analyzed by XENCO Laboratories.

Raymond Flores
USEPA Region 6
CLP Laboratory COR
ESAT PO

9804036

ATTACHMENT

(Data Review Report – August 2, 2016)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE RD.
HOUSTON, TEXAS 77099

August 2, 2016

MEMORANDUM

SUBJECT: Data Review – Highlands Private Wells

FROM: Raymond Flores, for
Marvelyn Humphrey, Chief
Laboratory Support and External Oversight Section

TO: Bret Kendrick, Superfund Project Manager (6SF-TR)
Risk and Site Assessment Section

The Environmental Services Assistance Team (ESAT), contractor to EPA Region 6 Environmental Services Branch, completed the review of the data from XENCO Laboratories for the referenced site. The assessment of the data from XENCO can be found in the attached data review report. If you have any questions regarding the data review report, please contact me at (281) 983-2140.

ENVIRONMENTAL SERVICES ASSISTANCE TEAM

ESAT Region 6
10625 Fallstone Road
Houston, TX 77099

Alion Science and Technology

MEMORANDUM

DATE: August 2, 2016

TO: Marvelyn Humphrey, ESAT PO, Region 6 EPA

FROM: Wallace Doong, Data Reviewer, ESAT WD

THRU: Dominic G. Jarecki, ESAT Program Manager, ESAT DGJ

SUBJECT: Data Review

Contract No.:	EP-W-13-026
TO No.:	002
Task/Sub-Task:	2-13
ESAT Doc. No.:	1602-213-0006
TDF No.:	6-16-274A
ESAT File No.:	O-1337

Attached is the data review summary for Case # ES16010
SDG # N/A
Site Highlands Private Wells

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE ROAD
HOUSTON, TEXAS 77099
ORGANIC REGIONAL DATA ASSESSMENT

CASE NO.	ES16010	SITE	Highlands Private Wells
LABORATORY	XENCO	NO. OF SAMPLES	5
CONTRACT#	N/A	MATRIX	Water
SDG#	N/A	REVIEWER (IF NOT ESB)	ESAT
SOW#	Method 1613B	REVIEWER'S NAME	Wallace Doong
Site ID#	A6NM	COMPLETION DATE	August 2, 2016

SAMPLE NO.	ES16010-012R	ES16010-093R	
	ES16010-056R		
	ES16010-071R		
	ES16010-091R		

DATA ASSESSMENT SUMMARY

		Dioxin/Furan
1.	HOLDING TIMES	O
2.	GC/MS TUNE/INSTR. PERFORM.	O
3.	CALIBRATIONS	O
4.	BLANKS	O
5.	LABEL COMP./CLEANUP STD. RECOVERY	O
6.	MATRIX SPIKE/DUPLICATE/LCS/OPR	M
7.	OTHER QC	N/A
8.	INTERNAL STANDARDS	O
9.	COMPOUND ID/QUANTITATION	O
10.	PERFORMANCE/COMPLETENESS	O
11.	OVERALL ASSESSMENT	M

O = Data had no problems.
M = Data qualified because of major or minor problems.
Z = Data unacceptable.
NA = Not applicable.

ACTION ITEMS:

AREA OF CONCERN: All results were qualified for sample ES16010-012R because the percent recoveries were below the QC limits for all spiked compounds in the associated Ongoing Precision Recovery (OPR) analysis.

COMMENTS/CLARIFICATIONS
REGION 6 QA REVIEW

CASE ES16010 **SDG** N/A **SITE** Highlands Private Wells **LAB** XENCO

COMMENTS: This data package consisted of five water samples for Dioxin/Furan analysis following EPA Method 1613B.

S4VEM Review was performed for this data package as requested by the Region. All target compounds PCDDs/PCDFs were reviewed. All target compound results were less than the laboratory Method Reporting Limits (MRLs). The target compound of concern is 2,3,7,8-TCDD. None of the samples contained 2,3,7,8-TCDD at a concentration above the laboratory Method Reporting Limit (MRL).

OVERALL ASSESSMENT: All results were qualified for sample ES16010-012R because of an OPR problem. ESAT's final data qualifiers in the DST indicate the technical usability of all reported sample results. An Evidence Audit was conducted for the data package, and the audit results were reported on the Evidence Inventory Checklist. The DST included in this report is the final version.

ORGANIC ACRONYMS

%D	Percent Difference
%RSD	Percent Relative Standard Deviation
ARO	Aroclors
BFB	4-Bromofluorobenzene
BNA	Base/Neutral and Acid
CCS	Contract Compliance Screening
CCV	Continuing Calibration Verification
CF	Calibration Factor
CRQL	Contract Required Quantitation Limit
CSF	Complete SDG File
DCB	Decachlorobiphenyl
DFTPP	Decafluorotriphenylphosphine
DMC	Deuterated Monitoring Compound
DST	Data Summary Table
EDM	EXES Data Manager
GC/ECD	Gas Chromatograph/Electron Capture Detector
GC/MS	Gas Chromatograph/Mass Spectrometer
GPC	Gel Permeation Chromatography
IC	Initial Calibration
INDA(B,C)	Individual Standard Mixture A(or B or C)
IS	Internal Standard
LCS	Laboratory Control Sample
LMVOA	Low/Medium Volatile Organic Analysis
MS/MSD	Matrix Spike/Matrix Spike Duplicate
NFG	National Functional Guidelines
OTR/COC	Organic Traffic Report/Chain of Custody
PAH	Polynuclear Aromatic Hydrocarbon
PE	Performance Evaluation
PEM	Performance Evaluation Mixture
PEST	Pesticides
QA	Quality Assurance
QC	Quality Control
QL	Quantitation Limit
RIC	Reconstructed Ion Chromatogram
RPD	Relative Percent Difference
RRF	Relative Response Factor
RRT	Relative Retention Time
RSCC	Regional Sample Control Center
RT	Retention Time
S3VEM	Stage 3 Validation Electronic and Manual (previously called Modified CADRE Review)
S4VEM	Stage 4 Validation Electronic and Manual (previously called Standard Review)
SDG	Sample Delivery Group
SDMC	Semivolatile Deuterated Monitoring Compound
SIM	Selected Ion Monitoring
SMO	Sample Management Office
SOW	Statement of Work
SQL	Sample Quantitation Limit
SVOA	Semivolatile Organic Analysis
TCL	Target Compound List
TCX	Tetrachloro-m-xylene
TIC	Tentatively Identified Compound
TVOA	Trace Volatile Organic Analysis
VDMC	Volatile Deuterated Monitoring Compound
VOA	Volatile Organic Analysis

HEADER DEFINITIONS FOR DIOXIN EXCEL DST

CASE:	Case Number
SDG:	SDG Number
EPASAMP:	EPA Sample Number
LABID:	Laboratory File/Sample ID
MATRIX:	Sample Matrix
ANDATE:	Sample Analysis Date
ANTIME:	Sample Analysis Time
SPLEWT:	Sample Weight
FINALVOL:	Final Sample Extract Volume
CASNUM:	Compound CAS Number
ANALYTE:	Compound Name
CONC:	Compound Concentration
VALDQAL:	Region 6 Organic Data Validation Qualifier (see Organic Data Qualifier Definitions on the next page)
UNITS:	Concentration Units
EMPC:	Estimated Maximum Possible Concentration
EDL:	Estimated Detection Limit
ADJMRL:	Adjusted method reporting limit value
SMPDATE:	Sampling Date
STATLOC:	Station Location

Disclaimer: ESAT verified the accuracy of the information reported in the Excel DST only for the following data fields: CASE, SDG, EPASAMP, MATRIX, ANALYTE, CONC, UNITS, VALDQAL, and ADJCRQL. The data qualifiers in the VALDQAL column indicate the technical usability of the reported results.

ORGANIC DATA QUALIFIER DEFINITIONS

The following definitions provide brief explanations of the ESAT-Region 6 qualifiers assigned to results in the Data Summary Table.

U Not detected at reported quantitation limit.

N Identification is tentative.

J Estimated value.

L Reported concentration is below the method reporting limit.

M Reported concentration should be used as a raised quantitation limit because of interferences and/or laboratory contamination.

R Unusable.

^ High biased. Actual concentration may be lower than the concentration reported.

v Low biased. Actual concentration may be higher than the concentration reported.

F+ A false positive exists.

F- A false negative exists.

UJ Estimated quantitation limit.

T Identification is questionable because of absence of other commonly coexisting pesticides.

C Identification of pesticide or Aroclor has been confirmed by Gas Chromatography/Mass Spectrometer (GC/MS).

X Identification of pesticide or Aroclor could not be confirmed by GC/MS when attempted.

***** Result not recommended for use because of associated QA/QC performance inferior to that from other analysis.

CASE	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	SPLEWT/VOL (gm/mL)	FINALVOL (uL)	DILUTION	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	EMPC	EDL	ADJMRL	SMPDATE
ES16010	ES16010-012R	8465733	Water	7/12/2016	11:56	922	20	1	1746-01-6	2378-TCDD		UJ	pg/L		0.352	2.17	7/7/2016
ES16010	ES16010-012R	8465733	Water	7/12/2016	11:56	922	20	1	40321-76-4	12378-PeCDD		UJ	pg/L		0.277	10.8	7/7/2016
ES16010	ES16010-012R	8465733	Water	7/12/2016	11:56	922	20	1	39227-28-6	123478-HxCDD		UJ	pg/L		0.145	10.8	7/7/2016
ES16010	ES16010-012R	8465733	Water	7/12/2016	11:56	922	20	1	57653-85-7	123678-HxCDD		UJ	pg/L		0.145	10.8	7/7/2016
ES16010	ES16010-012R	8465733	Water	7/12/2016	11:56	922	20	1	19408-74-3	123789-HxCDD		UJ	pg/L		0.152	10.8	7/7/2016
ES16010	ES16010-012R	8465733	Water	7/12/2016	11:56	922	20	1	35822-46-9	1234678-HpCDD		UJ	pg/L		0.913	10.8	7/7/2016
ES16010	ES16010-012R	8465733	Water	7/12/2016	11:56	922	20	1	3268-87-9	OCDD		UJ	pg/L		0.906	21.7	7/7/2016
ES16010	ES16010-012R	8465733	Water	7/12/2016	11:56	922	20	1	51207-31-9	2378-TCDF		UJ	pg/L		0.241	2.17	7/7/2016
ES16010	ES16010-012R	8465733	Water	7/12/2016	11:56	922	20	1	57117-41-6	12378-PeCDF		UJ	pg/L		0.111	10.8	7/7/2016
ES16010	ES16010-012R	8465733	Water	7/12/2016	11:56	922	20	1	57117-31-4	23478-PeCDF		UJ	pg/L		0.209	10.8	7/7/2016
ES16010	ES16010-012R	8465733	Water	7/12/2016	11:56	922	20	1	70648-26-9	123478-HxCDF		UJ	pg/L		0.145	10.8	7/7/2016
ES16010	ES16010-012R	8465733	Water	7/12/2016	11:56	922	20	1	57117-44-9	123678-HxCDF		UJ	pg/L		0.246	10.8	7/7/2016
ES16010	ES16010-012R	8465733	Water	7/12/2016	11:56	922	20	1	72918-21-9	123789-HxCDF		UJ	pg/L		0.680	10.8	7/7/2016
ES16010	ES16010-012R	8465733	Water	7/12/2016	11:56	922	20	1	60851-34-5	234678-HxCDF		UJ	pg/L		0.157	10.8	7/7/2016
ES16010	ES16010-012R	8465733	Water	7/12/2016	11:56	922	20	1	67562-39-4	1234678-HpCDF		UJ	pg/L		0.331	10.8	7/7/2016
ES16010	ES16010-012R	8465733	Water	7/12/2016	11:56	922	20	1	55673-89-7	1234789-HpCDF		UJ	pg/L		0.356	10.8	7/7/2016
ES16010	ES16010-012R	8465733	Water	7/12/2016	11:56	922	20	1	39001-02-0	OCDF		UJ	pg/L		0.499	21.7	7/7/2016
ES16010	ES16010-012R	8465733	Water	7/12/2016	11:56	922	20	1	3333-30-0	TEQ WHO2005 Mammal ND=0	0.728		pg/L				7/7/2016
ES16010	ES16010-056R	8461325	Water	7/9/2016	00:16	980	20	1	1746-01-6	2378 TCDD		U	pg/L		0.302	2.04	7/5/2016
ES16010	ES16010-056R	8461325	Water	7/9/2016	00:16	980	20	1	40321-76-4	12378 PeCDD		U	pg/L		0.804	10.2	7/5/2016
ES16010	ES16010-056R	8461325	Water	7/9/2016	00:16	980	20	1	39227-28-6	123478 HxCDD		U	pg/L		0.500	10.2	7/5/2016
ES16010	ES16010-056R	8461325	Water	7/9/2016	00:16	980	20	1	57653-85-7	123678 HxCDD		U	pg/L		0.664	10.2	7/5/2016
ES16010	ES16010-056R	8461325	Water	7/9/2016	00:16	980	20	1	19408-74-3	123789 HxCDD		U	pg/L		0.357	10.2	7/5/2016
ES16010	ES16010-056R	8461325	Water	7/9/2016	00:16	980	20	1	35822-46-9	1234678 HpCDD		U	pg/L		1.17	10.2	7/5/2016
ES16010	ES16010-056R	8461325	Water	7/9/2016	00:16	980	20	1	3268-87-9	OCDD		U	pg/L		1.93	20.4	7/5/2016
ES16010	ES16010-056R	8461325	Water	7/9/2016	00:16	980	20	1	51207-31-9	2378 TCDF		U	pg/L		0.299	2.04	7/5/2016
ES16010	ES16010-056R	8461325	Water	7/9/2016	00:16	980	20	1	57117-41-6	12378 PeCDF		U	pg/L		0.717	10.2	7/5/2016
ES16010	ES16010-056R	8461325	Water	7/9/2016	00:16	980	20	1	57117-31-4	23478 PeCDF		U	pg/L		0.978	10.2	7/5/2016
ES16010	ES16010-056R	8461325	Water	7/9/2016	00:16	980	20	1	70648-26-9	123478 HxCDF		U	pg/L		0.331	10.2	7/5/2016
ES16010	ES16010-056R	8461325	Water	7/9/2016	00:16	980	20	1	57117-44-9	123678 HxCDF		U	pg/L		0.618	10.2	7/5/2016
ES16010	ES16010-056R	8461325	Water	7/9/2016	00:16	980	20	1	72918-21-9	123789 HxCDF		U	pg/L		1.26	10.2	7/5/2016
ES16010	ES16010-056R	8461325	Water	7/9/2016	00:16	980	20	1	60851-34-5	234678 HxCDF		U	pg/L		0.662	10.2	7/5/2016
ES16010	ES16010-056R	8461325	Water	7/9/2016	00:16	980	20	1	67562-39-4	1234678 HpCDF		U	pg/L		0.806	10.2	7/5/2016
ES16010	ES16010-056R	8461325	Water	7/9/2016	00:16	980	20	1	55673-89-7	1234789 HpCDF		U	pg/L		0.822	10.2	7/5/2016
ES16010	ES16010-056R	8461325	Water	7/9/2016	00:16	980	20	1	39001-02-0	OCDF		U	pg/L		1.30	20.4	7/5/2016
ES16010	ES16010-056R	8461325	Water	7/9/2016	00:16	980	20	1	3333-30-0	TEQ WHO2005 Mammal ND=0	1.75		pg/L				7/5/2016
ES16010	ES16010-071R	8461322	Water	7/8/2016	18:21	972	20	1	1746-01-6	2378 TCDD		U	pg/L		0.369	2.06	7/5/2016
ES16010	ES16010-071R	8461322	Water	7/8/2016	18:21	972	20	1	40321-76-4	12378 PeCDD		U	pg/L		0.395	10.3	7/5/2016
ES16010	ES16010-071R	8461322	Water	7/8/2016	18:21	972	20	1	39227-28-6	123478 HxCDD		U	pg/L		0.212	10.3	7/5/2016
ES16010	ES16010-071R	8461322	Water	7/8/2016	18:21	972	20	1	57653-85-7	123678 HxCDD		U	pg/L		0.234	10.3	7/5/2016
ES16010	ES16010-071R	8461322	Water	7/8/2016	18:21	972	20	1	19408-74-3	123789 HxCDD		U	pg/L		0.231	10.3	7/5/2016
ES16010	ES16010-071R	8461322	Water	7/8/2016	18:21	972	20	1	35822-46-9	1234678 HpCDD		U	pg/L		0.693	10.3	7/5/2016
ES16010	ES16010-071R	8461322	Water	7/8/2016	18:21	972	20	1	3268-87-9	OCDD		U	pg/L		2.37	20.6	7/5/2016
ES16010	ES16010-071R	8461322	Water	7/8/2016	18:21	972	20	1	51207-31-9	2378 TCDF		U	pg/L		0.386	2.06	7/5/2016
ES16010	ES16010-071R	8461322	Water	7/8/2016	18:21	972	20	1	57117-41-6	12378 PeCDF		U	pg/L		0.413	10.3	7/5/2016
ES16010	ES16010-071R	8461322	Water	7/8/2016	18:21	972	20	1	57117-31-4	23478 PeCDF		U	pg/L		0.293	10.3	7/5/2016
ES16010	ES16010-071R	8461322	Water	7/8/2016	18:21	972	20	1	70648-26-9	123478 HxCDF		U	pg/L		0.352	10.3	7/5/2016
ES16010	ES16010-071R	8461322	Water	7/8/2016	18:21	972	20	1	57117-44-9	123678 HxCDF		U	pg/L		0.358	10.3	7/5/2016
ES16010	ES16010-071R	8461322	Water	7/8/2016	18:21	972	20	1	72918-21-9	123789 HxCDF		U	pg/L		0.582	10.3	7/5/2016
ES16010	ES16010-071R	8461322	Water	7/8/2016	18:21	972	20	1	60851-34-5	234678 HxCDF		U	pg/L		0.327	10.3	7/5/2016
ES16010	ES16010-071R	8461322	Water	7/8/2016	18:21	972	20	1	67562-39-4	1234678 HpCDF		U	pg/L		0.403	10.3	7/5/2016
ES16010	ES16010-071R	8461322	Water	7/8/2016	18:21	972	20	1	55673-89-7	1234789 HpCDF		U	pg/L		0.274	10.3	7/5/2016
ES16010	ES16010-071R	8461322	Water	7/8/2016	18:21	972	20	1	39001-02-0	OCDF		U	pg/L		0.843	20.6	7/5/2016
ES16010	ES16010-071R	8461322	Water	7/8/2016	18:21	972	20	1	3333-30-0	TEQ WHO2005 Mammal ND=0	0.724		pg/L				7/5/2016

CASE	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	SPLEWT/VOL (gm/mL)	FINALVOL (uL)	DILUTION	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	EMPC	EDL	ADJMRL	SMPDATE
ES16010	ES16010-091R	8461324	Water	7/8/2016	20:14	970	20	1	1746-01-6	2378 TCDD		U	pg/L		0.566	2.06	7/5/2016
ES16010	ES16010-091R	8461324	Water	7/8/2016	20:14	970	20	1	40321-76-4	12378 PeCDD		U	pg/L		0.367	10.3	7/5/2016
ES16010	ES16010-091R	8461324	Water	7/8/2016	20:14	970	20	1	39227-28-6	123478 HxCDD		U	pg/L		0.249	10.3	7/5/2016
ES16010	ES16010-091R	8461324	Water	7/8/2016	20:14	970	20	1	57653-85-7	123678 HxCDD		U	pg/L		0.242	10.3	7/5/2016
ES16010	ES16010-091R	8461324	Water	7/8/2016	20:14	970	20	1	19408-74-3	123789 HxCDD		U	pg/L		0.254	10.3	7/5/2016
ES16010	ES16010-091R	8461324	Water	7/8/2016	20:14	970	20	1	35822-46-9	1234678 HpCDD		U	pg/L		1.79	10.3	7/5/2016
ES16010	ES16010-091R	8461324	Water	7/8/2016	20:14	970	20	1	3268-87-9	OCDD		U	pg/L		9.85	20.6	7/5/2016
ES16010	ES16010-091R	8461324	Water	7/8/2016	20:14	970	20	1	51207-31-9	2378 TCDF		U	pg/L		0.331	2.06	7/5/2016
ES16010	ES16010-091R	8461324	Water	7/8/2016	20:14	970	20	1	57117-41-6	12378 PeCDF		U	pg/L		0.339	10.3	7/5/2016
ES16010	ES16010-091R	8461324	Water	7/8/2016	20:14	970	20	1	57117-31-4	23478 PeCDF		U	pg/L		0.288	10.3	7/5/2016
ES16010	ES16010-091R	8461324	Water	7/8/2016	20:14	970	20	1	70648-26-9	123478 HxCDF		U	pg/L		0.167	10.3	7/5/2016
ES16010	ES16010-091R	8461324	Water	7/8/2016	20:14	970	20	1	57117-44-9	123678 HxCDF		U	pg/L		0.175	10.3	7/5/2016
ES16010	ES16010-091R	8461324	Water	7/8/2016	20:14	970	20	1	72918-21-9	123789 HxCDF		U	pg/L		0.506	10.3	7/5/2016
ES16010	ES16010-091R	8461324	Water	7/8/2016	20:14	970	20	1	60851-34-5	234678 HxCDF		U	pg/L		0.177	10.3	7/5/2016
ES16010	ES16010-091R	8461324	Water	7/8/2016	20:14	970	20	1	67562-39-4	1234678 HpCDF		U	pg/L		0.343	10.3	7/5/2016
ES16010	ES16010-091R	8461324	Water	7/8/2016	20:14	970	20	1	55673-89-7	1234789 HpCDF		U	pg/L		0.282	10.3	7/5/2016
ES16010	ES16010-091R	8461324	Water	7/8/2016	20:14	970	20	1	39001-02-0	OCDF		U	pg/L		0.919	20.6	7/5/2016
ES16010	ES16010-091R	8461324	Water	7/8/2016	20:14	970	20	1	3333-30-0	TEQ WHO2005 Mammal ND=0	1.20		pg/L				7/5/2016
ES16010	ES16010-093R	8461323	Water	7/8/2016	19:17	976	20	1	1746-01-6	2378 TCDD		U	pg/L		0.418	2.05	7/5/2016
ES16010	ES16010-093R	8461323	Water	7/8/2016	19:17	976	20	1	40321-76-4	12378 PeCDD		U	pg/L		0.407	10.2	7/5/2016
ES16010	ES16010-093R	8461323	Water	7/8/2016	19:17	976	20	1	39227-28-6	123478 HxCDD		U	pg/L		0.456	10.2	7/5/2016
ES16010	ES16010-093R	8461323	Water	7/8/2016	19:17	976	20	1	57653-85-7	123678 HxCDD		U	pg/L		0.409	10.2	7/5/2016
ES16010	ES16010-093R	8461323	Water	7/8/2016	19:17	976	20	1	19408-74-3	123789 HxCDD		U	pg/L		0.355	10.2	7/5/2016
ES16010	ES16010-093R	8461323	Water	7/8/2016	19:17	976	20	1	35822-46-9	1234678 HpCDD		U	pg/L		0.864	10.2	7/5/2016
ES16010	ES16010-093R	8461323	Water	7/8/2016	19:17	976	20	1	3268-87-9	OCDD		U	pg/L		2.45	20.5	7/5/2016
ES16010	ES16010-093R	8461323	Water	7/8/2016	19:17	976	20	1	51207-31-9	2378 TCDF		U	pg/L		0.473	2.05	7/5/2016
ES16010	ES16010-093R	8461323	Water	7/8/2016	19:17	976	20	1	57117-41-6	12378 PeCDF		U	pg/L		0.688	10.2	7/5/2016
ES16010	ES16010-093R	8461323	Water	7/8/2016	19:17	976	20	1	57117-31-4	23478 PeCDF		U	pg/L		0.546	10.2	7/5/2016
ES16010	ES16010-093R	8461323	Water	7/8/2016	19:17	976	20	1	70648-26-9	123478 HxCDF		U	pg/L		0.475	10.2	7/5/2016
ES16010	ES16010-093R	8461323	Water	7/8/2016	19:17	976	20	1	57117-44-9	123678 HxCDF		U	pg/L		0.154	10.2	7/5/2016
ES16010	ES16010-093R	8461323	Water	7/8/2016	19:17	976	20	1	72918-21-9	123789 HxCDF		U	pg/L		0.836	10.2	7/5/2016
ES16010	ES16010-093R	8461323	Water	7/8/2016	19:17	976	20	1	60851-34-5	234678 HxCDF		U	pg/L		0.257	10.2	7/5/2016
ES16010	ES16010-093R	8461323	Water	7/8/2016	19:17	976	20	1	67562-39-4	1234678 HpCDF		U	pg/L		0.600	10.2	7/5/2016
ES16010	ES16010-093R	8461323	Water	7/8/2016	19:17	976	20	1	55673-89-7	1234789 HpCDF		U	pg/L		0.225	10.2	7/5/2016
ES16010	ES16010-093R	8461323	Water	7/8/2016	19:17	976	20	1	39001-02-0	OCDF		U	pg/L		0.990	20.5	7/5/2016
ES16010	ES16010-093R	8461323	Water	7/8/2016	19:17	976	20	1	3333-30-0	TEQ WHO2005 Mammal ND=0	0.949		pg/L				7/5/2016

INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

Case No. ES16010 SDG No. N/A SDG Nos. To Follow Mod. Ref No. _____ Date Rec. 7/26/16

EPA Lab ID: XENCO

Lab Location: Stafford, TX

Region: 6 Audit No.: ES16010

Re_Submitted CSF? Yes _____ No X

Box No(s): 1

COMMENTS:

Over for additional comments.

ORIGINALS	YES	NO	N/A
CUSTODY SEALS			
1. Present on package?			X
2. Intact upon receipt?			X
FORM DC-2			
3. Numbering scheme accurate?			X
4. Are enclosed documents listed?			X
5. Are listed documents enclosed?			X
FORM DC-1			
6. Present?			X
7. Complete?			X
8. Accurate?			X
TRAFFIC REPORT /CHAIN-OF-CUSTODY RECORD(s)			
9. Signed?	X		
10. Dated?	X		
AIRBILLS/AIRBILL STICKER			
11. Present?			X
12. Signed?			X
13. Dated?			X
SAMPLE TAGS			
14. Does DC-1 list tags as being included?			X
15. Present?			X
OTHER DOCUMENTS			
16. Complete?	X		
17. Legible?	X		
18. Original?		X	
18a. If "NO", does the copy indicate where original documents are located?	X		

Audited by: Wallace Doong — Wallace Doong / ESAT Data Reviewer — Date 7/27/16

Audited by: _____ — _____ — Date _____

Signature — Printed Name/Title

DC-2__

CHAIN OF CUSTODY

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XENCO LABORATORIES

Setting the Standard since 1990

Stafford,Texas (281-240-4200)

Dallas, Texas (214-902-0300)

Service Center - San Antonio, Texas (210-509-3334)

www.xenco.com

Odessa, Texas (432-563-1800)

Norcross, Georgia (770-449-8800)

Lakeland, Florida (863-646-8526)

Tampa, Florida (813-620-2000)

Xenco Quote #

Xenco Job # 532785-1

Client / Reporting Information

Company Name / Branch: INCONTROL TECH

Company Address: 14731 Pebble Bend

Email: mmarcon@incontroltech.com

Phone No:

Project Contact:

Samplers's Name: Michael Marcon

Project Information

Project Name/Number: HIGHLANDS

Project Location: HIGHLANDS, TEXAS

Invoice To: ICT

PO Number:

Analytical Information

Matrix Codes

A= Air
S = Soil/Sed/Solid
GW =Ground Water
DW = Drinking Water
P = Product
SW = Surface water
SL = Sludge
WW= Waste Water
W = Wipe
O = Oil

WW= Waste Water

No.	Field ID / Point of Collection	Sample Depth	Date	Time	Matrix	# of bottles	HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	DIOXINS	Total Pb	SVOCs 525							Field Comments
1	ES16010-085R		7-5	9:25	DW	2			2							X								
2	ES16010-012R		7-5	9:55		1						1			X									
3	ES16010-071R		7-5	11:00		1						1			X									
4	ES16010-093R		7-5	11:20		1						1			X									
5	ES16010-091R		7-5	12:00		1						1			X									
6	ES16010-056R		7-5	12:45		3	2					3			X		X							
7																								
8																								
9																								
10																								

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Turnaround Time (Business days)

- [ ] Same Day TAT
- [x] 5 Day TAT
- [ ] Next Day EMERGENCY
- [ ] 7 Day TAT
- [ ] 2 Day EMERGENCY
- [ ] Contract TAT
- [ ] 3 Day EMERGENCY

TAT Starts Day received by Lab, if received by 3:00 pm

Data Deliverable Information

- [ ] Level II Std QC
- [ ] Level IV (Full Data Pkg /raw data)
- [ ] Level III Std QC+ Forms
- [ ] TRRP Level IV
- [ ] Level 3 (CLP Forms)
- [ ] UST / RG -411
- [ ] TRRP Checklist

Notes:

FED-EX / UPS: Tracking #

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

	Relinquished by/Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1		7/5/2016 1305		2	07-05-16 1400	2
3	Relinquished by:	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
5	Relinquished by:	Date Time:	Received By: 5	Custody Seal #	Preserved where applicable	On Ice [x] Cooler Temp. 5.0°C Thermo. Corr. Factor 5.3°C

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to XENCO Laboratories and its affiliates, subcontractors and assigns XENCO's standard terms and conditions of service unless previously negotiated under a fully executed client contract.

38150 1680584 8465733

XENCO LABORATORIES

Sample SUB-Contract#: 1035434

Date Printed: 07.07.2016 18:14

Date/Time: 07.05.2016 14:23 Created by: Tanya Torres

Subcontractor: Eurofins Eaton Analytical, Inc.

PO#: **532785**

Delivery Priority:

Air Bill No.:

Invoice To: apInvoices@xenco.com; subcontract@xenco.com; debbie.simmons@xenco.com

Send report to: Debbie Simmons

Address: 4147 Greenbriar Dr. Stafford, TX 77477

Phone:

E-Mail: debbie.simmons@xenco.com

Due Date: **07.12.2016**

Sample Id	Client Sample Id	Cont #	Matrix	Sample Collection 07/07/16 @16:45	Method	Method Name	Lab PM
532785-002	ES16010-012R	5950	W	~~07/05/16~~ 09:55 @ 07/07/16	E1613	Dioxins & Furans by EPA 1613	Debbie Simmons
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	Debbie Simmons
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	E1613	Dioxins & Furans by EPA 1613	[redacted]
[redacted]	[redacted]	[redacted]	W	07/05/16 12:45	[redacted]	SVOCs by EPA 525.2	[redacted]

SUB-Contracting Comments:

5 DAY Turn needed. Full List PCDD'S/PCDF'S

Replacement for broke Sample

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Relinquished By: Mike Kimmel — Mike Kimmel

Date/ Time Relinquished: 07/05/2016 18:25AM

Relinquished By:

Date/ Time Relinquished:

Received By:

Date/ Time Received:

Received By:

Date/ Time Received: 7-8-16@1000

Cooler Temperature: 3.5