

VISTRA
ENERGY



Kim Mireles
Senior Director
Luminant
6555 Sierra Drive
Irving, TX 75039
o 214.875.8382
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Via Fed-Ex

TXX-18077

February 8, 2018

TCEQ
Waste Permits Division
I&HW Permits Section, MC-130
P.O. Box 13087
Austin, TX 78711-3087

Attn: Technical Analysis Staff

RE: Comanche Peak Nuclear Power Plant
Solid Waste Registration Number: 33306
Texas Waste Code: 37043902
Reference Number: 15749

50-445/446

Please find attached rationale used to classify Texas Waste Code 37043902 at Luminant's Comanche Peak Nuclear Power Plant, SWR No. 33306 in accordance with TCEQ's letter dated January 22, 2018 and received in Luminant's office on January 31, 2018.

This material was initially generated in 1998 and consists of construction debris generated during construction and demolition activities or during routine maintenance of plant structures, grounds and roads. Analytical testing performed in 2012 and process knowledge were used to classify this waste. Waste includes bulk materials such as uncontaminated concrete, brick, wood, plastic, metal pieces, sheetrock, refractory brick, mortar, fiberglass insulation and other similar materials. Non-hazardous RCRA metals and petroleum hydrocarbons may be present. See attached waste code (WC) documentation forms and 2012 analytical test results.

If you have any questions or require any additional information, please contact Karla Henson at 214-875-8328.

Sincerely,

By: Kim Mireles
Senior Director, Environmental Services

Attachments: Waste Classification Documentation for Waste Code 37043902

xc: U. S. Nuclear Regulatory Commission
Document Control Desk
11555 Rockville Pike
Rockville, MD 20852

COOL
NRR

cc: TCEQ – Region 4
2809 Gravel Drive
Fort Worth, TX 76118

ON-SITE DOCUMENTATION
FOR WASTE CLASSIFICATION

Waste Code Number: 3 | 7 | 0 | 4 | : | 3 | 9 | 0 | : | 2 | Waste: Construction Debris

Facility: Comanche Peak Nuclear Power Plant

1. Full Description of Waste, including a list of chemical constituents likely to be in the waste: Construction debris generated from operation and maintenance activities, during removal or installation of equipment or during construction or demolition activities. Includes, but is not limited to, brick, uncontaminated concrete, mortar, plastic, rock, glass, wood, sheetrock and minor amounts of metal such as clasps, nuts, bolts, wire, etc. Low concentrations of RCRA metals (non-hazardous) and low concentrations of petroleum hydrocarbons may be present.

2. Date of initial waste generation: 1998

3. Full description of process generating the waste, including a list of chemical constituents that enter the process: Generated from routine maintenance operations or construction/demolition on facility equipment or buildings. This waste is not ignitable, corrosive or reactive and is likely inert and uncontaminated. Process knowledge and analytical data was used to classify this waste. May include minor amounts of RCRA 8 metals at non-hazardous concentrations and minor amounts of petroleum hydrocarbons.

4. Waste classification determination: Class 2 Non-hazardous

SAMPLING DOCUMENTATION FOR ANALYTICAL DATA

Description of Waste Stream: Construction Debris

1. Date Sample(s) collected: November 7, 2012

2. a) Description of site or unit from which samples(s) is/are taken. Grab samples were collected from various locations in a metal roll-off box or similar container. The grab samples were composited into a single sample.

b) Sample(s) location, (i.e., North, South, East and West corners).
Grab samples were collected randomly from several locations in the box.

c) Verify how it was ensured the samples that were collected were representative of the entire waste stream. The material was heterogeneous and the sample represented the materials in approximate proportions, e.g., 50% rock/concrete materials, 15% asphaltic materials, 10% wooden materials, 10% metal, 10% fiberglass insulation, and 5% miscellaneous paper/cloth materials.

3. Description of sample handling techniques, including containerization, preservation, and chain of custody. The samples were placed in 1-liter plastic containers with lids for TCLP analysis and 8-ounce glass jars with Teflon-lined lids for TPH analysis. No preservation was required. The samples were labeled, documented on a chain-of-custody, placed in a cooler and transported to a laboratory for analytical testing.

WASTE CLASSIFICATION DETERMINATION

A. Hazardous waste determination (335.504)

1. Determine if listed in 40CFR Subpart D, 261.30-.33, F, K, P and U wastes.

Yes ___ No X

2. Determine if characteristically hazardous, 40CFR Subpart C by testing or knowledge of waste or process; i.e., MSDS.

- a. Ignitability, D001, liquids < 140 F plus others (261.21)

Yes ___ No X

- b. Corrosivity, D002, liquids pH < 2.0 or > 12.5 (261.22)

Yes ___ No X

- c. Reactivity, D003 (261.23)

Yes ___ No X

- d. Toxicity, D004-D043 Leachates meets or exceeds TCLP (261.24)

Yes ___ No X

PER ABOVE DETERMINATION, THE WASTE IS **NON-HAZARDOUS**

CLASS 1 WASTE DETERMINATION (335.505)

1. Contains specific constituents which equal or exceed levels listed in Table 1 of Appendix 1

Yes ___ No X

2. Class 1 ignitable.

Yes ___ No X

3. Class 1 corrosive.

Yes ___ No X

4. Is there analytical data and/or documented process knowledge which proves a waste is Class 2 or Class 3?

Yes X No ___

5. Identified as Class 1 waste in 335.508 Specific Industrial Solid Wastes.

Yes ___ No X

6. Not a hazardous waste per 335.504 and generator chooses to classify waste as Class 1.

Yes ___ No X

CLASS 2 WASTE DETERMINATION 335.506

1. Is waste hazardous per 335.504?
Yes No
2. Is waste a Class 1 waste per 335.505?
Yes No
3. Waste, either cannot qualify per 335.507, or generator chooses not to classify the waste as a Class 3 waste. Yes No
4. Designated as a Class 2 waste per 335.508 Classification of Specific Industrial Solid Wastes. Yes No

PROCESS KNOWLEDGE (335.511)

MSDS, Manufacturers Literature and other documentation generated in conjunction with a particular process may be used provided sufficient information about the waste and Class 1 criteria set forth in 335.505 is addressed.

1. Full description of process, including list of chemical constituents that enter the process. Chemicals listed in Appendix 1 to be addressed. See WC-1. Waste is generated during demolition or construction of buildings or during routine operation and maintenance activities. Waste consists of brick, concrete (unstained/uncontaminated), mortar, wood, sheetrock; fiberglass insulation, etc.

2. Full description of the waste, including list of chemical constituents likely to be in the waste per No. 1 above. See WC-1. Process knowledge and analytical testing. Some minor amounts of RCRA 8 metals and TPH may be present.

3. Subset of Appendix 1 constituents to evaluate the waste utilizing the information from No. 1 and No. 2 above. See WC-1 and WC-2.



November 27, 2012

Tim Curtis
Luminant CPNPP
PO Box 1002, MC PO4
Glen Rose, TX 76043

RE: Project: Not Provided
Pace Project No.: 751128

Dear Tim Curtis:

Enclosed are the analytical results for sample(s) received by the laboratory on November 08, 2012. 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,

Leslie Underwood

leslie.underwood@pacelabs.com
Project Manager

Enclosures

cc: Jimmy Walls, Luminant CPNPP



REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, Inc..



CERTIFICATIONS

Project: Not Provided
Pace Project No.: 751128

Dallas Certification IDs
400 West Bethany Dr Suite 190 75013 Allen TX 75013
Texas Certification #: T104704232-12-4
Kansas Certification #: E-10388

Arkansas Certification #: 88-0647
Oklahoma Certification #: 2012-080
Louisiana Certification #: 02007

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Not Provided
Pace Project No.: 751128

Lab ID	Sample ID	Matrix	Date Collected	Date Received
751128001	Sandblast Media	Solid	11/07/12 15:00	11/08/12 14:40
751128002	Construction Debris	Solid	11/07/12 15:00	11/08/12 14:40

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Not Provided
Pace Project No.: 751128

Lab ID	Sample ID	Method	Analysts	Analytes Reported
751128001	Sandblast Media	TNRCC 1005	PMS	6
		EPA 6010	SPS	10
		EPA 7470	RLC	1
751128002	Construction Debris	TNRCC 1005	PMS	6
		EPA 6010	SPS	10
		EPA 7470	RLC	1

REPORT OF LABORATORY ANALYSIS

ANALYTICAL RESULTS

Project: Not Provided
Pace Project No.: 751128

Sample: Sandblast Media Lab ID: 751128001 Collected: 11/07/12 15:00 Received: 11/08/12 14:40 Matrix: Solid
Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
TNRCC 1005 TPH									
Analytical Method: TNRCC 1005 Preparation Method: TNRCC 1005									
TPH (C06-C12)	ND	mg/kg	12.0		1	11/14/12 12:00	11/15/12 11:47		
TPH (>C12-C28)	8.9	mg/kg	6.0		1	11/14/12 12:00	11/15/12 11:47		
TPH (>C28-C35)	177	mg/kg	2.0		1	11/14/12 12:00	11/15/12 11:47		
TPH Total (C06-C35)	186	mg/kg	20.1		1	11/14/12 12:00	11/15/12 11:47		
Surrogates									
o-Terphenyl (S)	91 %		70-130		1	11/14/12 12:00	11/15/12 11:47	84-15-1	
1-Chlorooctane (S)	96 %		70-130		1	11/14/12 12:00	11/15/12 11:47	3386-33-2	
6010 Metals, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/13/12 17:06									
Antimony	ND	mg/L	0.25		1	11/15/12 09:40	11/21/12 19:44	7440-36-0	
Arsenic	ND	mg/L	0.050		5	1	11/15/12 09:40	11/21/12 19:44	7440-38-2
Barium	2.6	mg/L	0.010	100	1	11/15/12 09:40	11/21/12 19:44	7440-39-3	
Beryllium	ND	mg/L	0.010		1	11/15/12 09:40	11/21/12 19:44	7440-41-7	
Cadmium	ND	mg/L	0.010		1	11/15/12 09:40	11/21/12 19:44	7440-43-9	
Chromium	ND	mg/L	0.050		5	1	11/15/12 09:40	11/21/12 19:44	7440-47-3
Lead	ND	mg/L	0.050		5	1	11/15/12 09:40	11/21/12 19:44	7439-92-1
Nickel	0.17	mg/L	0.050		1	11/15/12 09:40	11/21/12 19:44	7440-02-0	
Selenium	ND	mg/L	0.10		1	11/15/12 09:40	11/21/12 19:44	7782-49-2	
Silver	ND	mg/L	0.020		5	1	11/15/12 09:40	11/21/12 19:44	7440-22-4
7470 Mercury, TCLP									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Leachate Method/Date: EPA 1311; 11/13/12 17:06									
Mercury	ND	mg/L	0.00020		1	11/15/12 10:49	11/15/12 16:25	7439-97-6	

ANALYTICAL RESULTS

Project: Not Provided

Pace Project No.: 751128

Sample: Construction Debris Lab ID: 751128002 Collected: 11/07/12 15:00 Received: 11/08/12 14:40 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
TNRCC 1005 TPH									
Analytical Method: TNRCC 1005 Preparation Method: TNRCC 1005									
TPH (C06-C12)	ND	mg/kg	11.9		1	11/14/12 12:00	11/15/12 16:38		
TPH (>C12-C28)	15.2	mg/kg	6.0		1	11/14/12 12:00	11/15/12 16:38		
TPH (>C28-C35)	12.2	mg/kg	2.0		1	11/14/12 12:00	11/15/12 16:38		
TPH Total (C06-C35)	27.3	mg/kg	19.9		1	11/14/12 12:00	11/15/12 16:38		
Surrogates									
o-Terphenyl (S)	81 %		70-130		1	11/14/12 12:00	11/15/12 16:38	84-15-1	
1-Chlorooctane (S)	85 %		70-130		1	11/14/12 12:00	11/15/12 16:38	3386-33-2	
6010 Metals, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/13/12 17:06									
Antimony	ND	mg/L	0.25		1	11/15/12 09:40	11/21/12 19:49	7440-36-0	
Arsenic	ND	mg/L	0.050		5	1	11/15/12 09:40	11/21/12 19:49	7440-38-2
Barium	0.38	mg/L	0.010		100	1	11/15/12 09:40	11/21/12 19:49	7440-39-3
Beryllium	ND	mg/L	0.010		1	1	11/15/12 09:40	11/21/12 19:49	7440-41-7
Cadmium	ND	mg/L	0.010		1	1	11/15/12 09:40	11/21/12 19:49	7440-43-9
Chromium	ND	mg/L	0.050		5	1	11/15/12 09:40	11/21/12 19:49	7440-47-3
Lead	ND	mg/L	0.050		5	1	11/15/12 09:40	11/21/12 19:49	7439-92-1
Nickel	ND	mg/L	0.050		1	1	11/15/12 09:40	11/21/12 19:49	7440-02-0
Selenium	ND	mg/L	0.10		1	1	11/15/12 09:40	11/21/12 19:49	7782-49-2
Silver	ND	mg/L	0.020		5	1	11/15/12 09:40	11/21/12 19:49	7440-22-4
7470 Mercury, TCLP									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Leachate Method/Date: EPA 1311; 11/13/12 17:06									
Mercury	ND	mg/L	0.00020		1	11/15/12 10:49	11/15/12 16:27	7439-97-6	

CC

QUALITY CONTROL DATA

Project: Not Provided

Pace Project No.: 751128

QC Batch: MERP/1005

Analysis Method: EPA 7470

QC Batch Method: EPA 7470

Analysis Description: 7470 Mercury TCLP

Associated Lab Samples: 751128001, 751128002

METHOD BLANK: 1141

Matrix: Water

Associated Lab Samples: 751128001, 751128002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	11/15/12 16:12	

LABORATORY CONTROL SAMPLE: 1142

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	.0025	0.0025	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1143

1144

Parameter	Units	751128001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max		Qual
			Spike Conc.	Spike Conc.	Result	Result				RPD	RPD	
Mercury	mg/L	ND	.0025	.0025	0.0022	0.0024	86	94	70-130	8	20	

QUALITY CONTROL DATA

Project: Not Provided
Pace Project No.: 751128

QC Batch: MPRP/1021 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET TCLP
Associated Lab Samples: 751128001, 751128002

METHOD BLANK: 1118 Matrix: Water
Associated Lab Samples: 751128001, 751128002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	mg/L	ND	0.25	11/21/12 19:17	
Arsenic	mg/L	ND	0.050	11/21/12 19:17	
Barium	mg/L	ND	0.010	11/21/12 19:17	
Beryllium	mg/L	ND	0.010	11/21/12 19:17	
Cadmium	mg/L	ND	0.010	11/21/12 19:17	
Chromium	mg/L	ND	0.050	11/21/12 19:17	
Lead	mg/L	ND	0.050	11/21/12 19:17	
Nickel	mg/L	ND	0.050	11/21/12 19:17	
Selenium	mg/L	ND	0.10	11/21/12 19:17	
Silver	mg/L	ND	0.020	11/21/12 19:17	

LABORATORY CONTROL SAMPLE: 1119

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	10	10.3	103	80-120	
Arsenic	mg/L	10	10.4	104	80-120	
Barium	mg/L	10	10.1	101	80-120	
Beryllium	mg/L	10	10.5	105	80-120	
Cadmium	mg/L	10	10.2	102	80-120	
Chromium	mg/L	10	10.6	106	80-120	
Lead	mg/L	10	9.7	97	80-120	
Nickel	mg/L	10	10.1	101	80-120	
Selenium	mg/L	10	10	100	80-120	
Silver	mg/L	5	4.9	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1120 1121

Parameter	Units	751128001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
			Spike Conc.	Conc.	Result	Result					
Antimony	mg/L	ND	10	10	10	10.1	100	101	75-125	1	20
Arsenic	mg/L	ND	10	10	10.1	10.2	100	102	75-125	1	20
Barium	mg/L	2.6	10	10	12.4	12.6	98	100	75-125	1	20
Beryllium	mg/L	ND	10	10	10.4	10.5	104	105	75-125	1	20
Cadmium	mg/L	ND	10	10	10	10.1	100	101	75-125	2	20
Chromium	mg/L	ND	10	10	10	10.2	99	102	75-125	2	20
Lead	mg/L	ND	10	10	10	10	99	100	75-125	0	20
Nickel	mg/L	0.17	10	10	10.1	10.2	100	100	75-125	1	20
Selenium	mg/L	ND	10	10	10	10.0	99	100	75-125	1	20
Silver	mg/L	ND	5	5	4.8	4.9	95	97	75-125	2	20

QUALITY CONTROL DATA

Project: Not Provided
Pace Project No.: 751128

QC Batch: OEXT/1030 Analysis Method: TNRCC 1005
QC Batch Method: TNRCC 1005 Analysis Description: TX1005 TPH GCS
Associated Lab Samples: 751128001, 751128002

METHOD BLANK: 1057 Matrix: Solid
Associated Lab Samples: 751128001, 751128002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH (>C12-C28)	mg/kg	ND	6.0	11/15/12 11:15	
TPH (>C28-C35)	mg/kg	ND	2.0	11/15/12 11:15	
TPH (C06-C12)	mg/kg	ND	12.0	11/15/12 11:15	
TPH Total (C06-C35)	mg/kg	ND	20.0	11/15/12 11:15	
1-Chlorooctane (S)	%	103	70-130	11/15/12 11:15	
o-Terphenyl (S)	%	99	70-130	11/15/12 11:15	

LABORATORY CONTROL SAMPLE & LCSD: 1058 1059

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
TPH (>C12-C28)	mg/kg	100	115	116	115	116	75-125	1	20	
TPH (>C28-C35)	mg/kg	33.3	37.7	37.9	113	114	75-125	1	20	
TPH (C06-C12)	mg/kg	200	224	224	112	112	75-125	0	20	
TPH Total (C06-C35)	mg/kg	333	376	378	113	113	75-125	0	20	
1-Chlorooctane (S)	%				102	103	70-130			
o-Terphenyl (S)	%				97	99	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1060 1061

Parameter	Units	751088006 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result						
TPH (>C12-C28)	mg/kg	ND	108	108	123	131	114	121	75-125	6	20	
TPH (>C28-C35)	mg/kg	ND	36	36	37.9	39.0	105	109	75-125	3	20	
TPH (C06-C12)	mg/kg	ND	216	216	210	241	97	112	75-125	14	20	
TPH Total (C06-C35)	mg/kg	ND	360	360	371	411	103	114	75-125	10	20	
1-Chlorooctane (S)	%						90	102	70-130			
o-Terphenyl (S)	%						87	98	70-130			

QUALIFIERS

Project: Not Provided
Pace Project No.: 751128

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The Nelac Institute

ANALYTE QUALIFIERS

CC The continuing calibration for this compound is outside of method control limits. The result is estimated.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Not Provided
Pace Project No.: 751128

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
751128001	Sandblast Media	TNRCC 1005	OEXT/1030	TNRCC 1005	GCSV/1011
751128002	Construction Debris	TNRCC 1005	OEXT/1030	TNRCC 1005	GCSV/1011
751128001	Sandblast Media	EPA 3010	MPRP/1021	EPA 6010	ICP/1015
751128002	Construction Debris	EPA 3010	MPRP/1021	EPA 6010	ICP/1015
751128001	Sandblast Media	EPA 7470	MERP/1005	EPA 7470	MERC/1005
751128002	Construction Debris	EPA 7470	MERP/1005	EPA 7470	MERC/1005



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: Luminant (CPNPP)		Report To: Timothy L. Curtis		Attention:	
Address: 6322 N. FM 56 Glen Rose, TX. 76043		Copy To:		Company Name:	
Email To: timothy.curtis@luminant.com		Purchase Order No.: 30208127099		Address:	
Phone: 254-897-5660 Fax: 254-897-5014		Project Name:		REGULATORY AGENCY:	
Requested Due Date/TAT:		Project Number:		<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input checked="" type="checkbox"/> OTHER <u>TCEQ</u>	
				Site Location STATE: TX	

ITEM #	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test (Y/N)	Requested Analysis Filtered (Y/N)		Residual Chlorine (Y/N)	
				COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₅	Methanol		Other	TPH		TCLP TX 11
				DATE	TIME	DATE	TIME														
	Sandblast Media	SL	C	11/7/12	16:00	n/a	n/a	1	X												
	Construction Debris	SL	C	11/7/12	16:00	n/a	n/a	1	X												

Pace Project No / Lab I.D.
751128001
751128002

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
	<i>Timothy L. Curtis</i>	11/8/12	09:35	<i>Jewell</i>	11/8/12	09:35					
	<i>Jewell</i>	11/8/12	12:08	<i>J. Jewell</i>	11/8/12	12:08					
	<i>Jewell</i>	11/8/12	2:00pm	<i>Kathy Williams / Pace</i>	11/8/12	14:40	23.4°	N	NA	Y	

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Timothy L. Curtis	DATE Signed (MM/DD/YY): 11/8/12				

SHIPPING ORDER

NO 173571

A SAFETY RELATED NON-SAFETY RELATED HAZARDOUS MATERIAL RADIOACTIVE RETURNED TO WHSE

WAREHOUSE <i>CONAP</i>				DATE PREPARED <i>11/8/12</i>			
VENDOR / SHIP TO <i>Pine Bluff, AR</i>		ADDRESS <i>190 Allen</i>		CITY <i>TX</i>		STATE <i>TX</i>	ZIP CODE <i>75013</i>
P.O. NUMBER <i>002 08127 099</i>				MR REFERENCE NUMBER			
DATE RECEIVED (FOR DISCREPANCIES)				DO # (MINING)		OS&D/RUC NO. (PROD)	
MATERIAL SHIPPED FOR <input type="checkbox"/> REPAIR <input type="checkbox"/> CALIBRATION <input type="checkbox"/> FABRICATION <input type="checkbox"/> TESTING <input type="checkbox"/> SALE TO OUTSIDE PARTY <input type="checkbox"/> DISCREPANCY <input type="checkbox"/> SALVAGE SALE <input type="checkbox"/> OTHER:				DISCREPANCY TYPE <input type="checkbox"/> DAMAGE <input type="checkbox"/> NONCONFORMING <input type="checkbox"/> OVERAGE <input type="checkbox"/> CONCEALED DAMAGE		RETURNED FOR <input type="checkbox"/> CREDIT <input type="checkbox"/> EXCHANGE	
P.O. ITEM NUMBER	TSN	UNIT OF MEASURE	ORDER QUANTITY	RECEIVED QUANTITY	SERIAL NUMBER	REMARKS / DESCRIPTION	
			<i>2</i>			<i>Small Bag #100</i>	
SHIPPING INSTRUCTIONS:							
VENDOR AUTHORIZING RETURN <i>Shelley Corneley</i>			RETURN AUTHORIZATION NO.		VENDOR PHONE NO. <i>800-329-3767</i>		
DEPT. ID	ACCOUNT PRIME	ACCOUNT SUB	EXP CODE	LOC/ USER	PROJECT/ VEHICLE	ACT. OR PROP	AMOUNT
PREPARED BY				DATE			

C FREIGHT: PREPAID COLLECT FOB: ORIGIN DESTINATION

SHIPPED VIA *United Parcel* DATE SHIPPED *11/8/12* PROTECTION CLASSIFICATION LEVEL (NUCLEAR)

BILL OF LADING NO. SHIPPER SIGNATURE & DATE
[Signature] *11-8-12*

WAREHOUSE SIGNATURE *[Signature]* DATE *11/8/12*

APPROVED *[Signature]* DATE *11/8/12*

D COMMENTS

ROUTING:

ORIGINAL- INVENTORY ACCT GREEN- PROCUREMENT/RESOURCE RECOVERY CANARY- ATTACH TO MATERIAL PINK- SITE ACCT GOLDENROD- WHSE



Sample Condition Upon Receipt

Client Name: Luminant (CPNPP) Pace #: 751128

Courier: Fed Ex UPS USPS Client Courier LSO Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no N/A

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used IR-01 IR-02 Type of Ice: Wet Blue None Samples on Ice, cooling process has begun

Cooler Temperature 23.4°C Ice Visible in Sample Containers: yes no

Temp should be above freezing to 6°C

Comments: _____

Date and Initials of person examining contents: _____

Chain of Custody Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
Containers Intact:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sample Labels match COC: -Includes date/time/ID/Analysis	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, O&G	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9. (Circle) HNO3 H2SO4 NaOH HCl If applicable see below.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	pH strip lot #: _____ Potassium Iodide strip lot #: _____ Lead Acetate strip lot #: _____
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples Arrived within Hold Time:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
Sufficient Volume:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Correct Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: _____

Sample Container Count



COC PAGE 1 of 1

COC ID# _____

Pace Project # 751128

Sample Line Item	BP2N	AG1U	VG9U	VG9H	BP2S	BP1U	BP2U	BG1H	AG1S	BP2O	SP5T	WGFU	WGKU	Comments
1														
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														

Container Codes

DG9H	40mL HCL amber vial	AF	Air Filter	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic		Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	BP3A	250mL NaOH, Asc Acid plastic	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFY	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag
WGKU	8oz wide jar unpreserved	SP5T	120mL Coliform Na Thiosulfate	SP5U	120mL Coliform unpreserved	GN	General unpreserved
Other	Other						

Sample Receipt Form
Pace Analytical Services, Inc.
Dallas



Login Summary

Workorder: 751128
Report Version: C
Min Sample Due: 11/19/2012 17:00
Max Sample Due: 11/19/2012 17:00

Client Work ID: Not Provided
Client: Luminant CPNPP
Profile: 3736

Lab ID	Sample ID	Collected	Received	Matrix	Report Properties	Location	Due Date
751128001	Sandblast Media	11/07/12 15:00	11/08/12 14:50	SL	PTR		11/19/12
751128002	Construction Debrls	11/07/12 15:00	11/08/12 14:50	SL	PTR		11/19/12

Sample Receipt Form
Pace Analytical Services, Inc.
Dallas



Sample Acknowledgement Recipients:
 Luminant CPNPP
 Tim Curtis
 PO Box 1002, MC PO4
 Glen Rose, TX 76043
 Phone: 254-897-5660
 Fax: 254-897-5014
 Email: timothy.curtis@luminant.com

Bill to:
 Luminant CPNPP
 Accounts Payable
 PO Box 1002, MC PO4
 Glen Rose, TX 76043

Final Report Recipients:
 Luminant CPNPP
 Tim Curtis (Primary)
 PO Box 1002, MC PO4
 Glen Rose, TX 76043
 Phone: 254-897-5660
 Fax: 254-897-5014
 Email: timothy.curtis@luminant.com

Line Item Descriptions:
 [1] TPH & TCLP 11

Client P O No: B0208127099 Lab Project No: 751128
 Phone: (972)727-1123 Project Deliverables Type: Standard Report
 Project Manager: Leslie Underwood Project Report Due Date: 11/19/12
 Client Project ID: Not Provided Profile: 3736
 Notify on Review: Y
 Alternate email address: cc to David Rutledge

Lab Smp ID: 751128001	Client Smp ID: Sandblast Media		Collected Date: 11/07/12 15:00
Proj Smp No: 1	Matrix: Solid	Smp Type: PS	Received Date: 11/08/12 14:50
Line Item: 1			
PARAMETER	METHOD	UNIT PRICE	WR SPL %
6010 ST - 6010 Metals, TCLP	EPA 6010	\$135.00	
COMPOUND	PQL UNITS		
Antimony	0.25 mg/L		
Arsenic	0.05 mg/L		
Barium	0.01 mg/L		
Beryllium	0.01 mg/L		
Cadmium	0.01 mg/L		
Chromium	0.05 mg/L		
Lead	0.05 mg/L		
Nickel	0.05 mg/L		
Selenium	0.1 mg/L		
Silver	0.02 mg/L		
7470 ST - 7470 Mercury, TCLP	EPA 7470	\$31.50	
COMPOUND	PQL UNITS		
Mercury	0.0002 mg/L		
TX1005 S - TNRCC 1005 TPH	TNRCC 1005	\$62.50	
DRY WEIGHT - Percent Moisture	ASTM D2974-87	\$14.75	
CHG20TCLP - TCLP Charge	Miscellaneous Charges	\$73.75	
Sub Total - Sample 484		\$317.50	

Lab Smp ID: 751128002	Client Smp ID: Construction Debris		Collected Date: 11/07/12 15:00
Proj Smp No: 2	Matrix: Solid	Smp Type: PS	Received Date: 11/08/12 14:50
Line Item: 1			
PARAMETER	METHOD	UNIT PRICE	WR SPL %
6010 ST - 6010 Metals, TCLP	EPA 6010	\$135.00	

Sample Receipt Form
Pace Analytical Services, Inc.
Dallas



PARAMETER	METHOD	UNIT PRICE	WR	SPL	%
<u>COMPOUND</u>	<u>PQL UNITS</u>				
Antimony	0.25 mg/L				
Arsenic	0.05 mg/L				
Barium	0.01 mg/L				
Beryllium	0.01 mg/L				
Cadmium	0.01 mg/L				
Chromium	0.05 mg/L				
Lead	0.05 mg/L				
Nickel	0.05 mg/L				
Selenium	0.1 mg/L				
Silver	0.02 mg/L				
7470 ST-7470 Mercury, TCLP	EPA 7470	\$31.50			
<u>COMPOUND</u>	<u>PQL UNITS</u>				
Mercury	0.0002 mg/L				
TX1005 S - TNRC 1005 TPH	TNRC 1005	\$62.50			
DRY WEIGHT - Percent Moisture	ASTM D2974-87	\$14.75			
CHG20TCLP - TCLP Charge	Miscellaneous Charges	\$73.75			
	Sub Total - Sample 485	\$317.50			
	Grand Total - Project 751128	\$635.00			

Unit Pricing above does not reflect associated shipping, bottle, sample disposal and other miscellaneous charges. Prices are subject to change without notice. Contact your Project Manager for further information.



Sample Receipt Form
Pace Analytical Services, Inc.
Dallas



Containers

Lab ID	Container ID	Type	Location	Preservative	Utilization
751128001	751128001 BG1U1/1	BG1U		NA	CHG20TCLP,DRY WEIGHT,TCLP6010ST,TCLP7470S T,TX1005S
751128002	751128002 BG1U1/1	BG1U		NA	CHG20TCLP,DRY WEIGHT,TCLP6010ST,TCLP7470S T,TX1005S