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SCOPING SURVEY REPORT FOR RADIUM SITES 12, 25 AND 27 NAS PENSACOLA FL
6/29/2009
ALEUT WORLD SOLUTIONS



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SCOPING SURVEY REPORT

SITES 12, 25, and 27

NAVAL AIR STATION PENSACOLA

PENSACOLA, FL

Project No. USN 2006-008
Contract No. W52P1J-08-D-0034/DO:0014

Revision 1
June 29, 2009

Prepared by:

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Approval



Written by: _____
Dan Spicuzza, AWS, LLC Project Manager

Date: 6/29/2009



Approved by: _____
William Haney
AWS, LLC Field Operations Manager

Date: 6/29/09

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- Attachment #1- Background Reference Area Survey Data
- Attachment #2- Building 780 Scoping Survey Report
- Attachment #3- Old Building 709 Southern Perimeter Scoping Survey
- Attachment #4- Soil Sample Laboratory Data

ABBREVIATIONS AND ACRONYMS

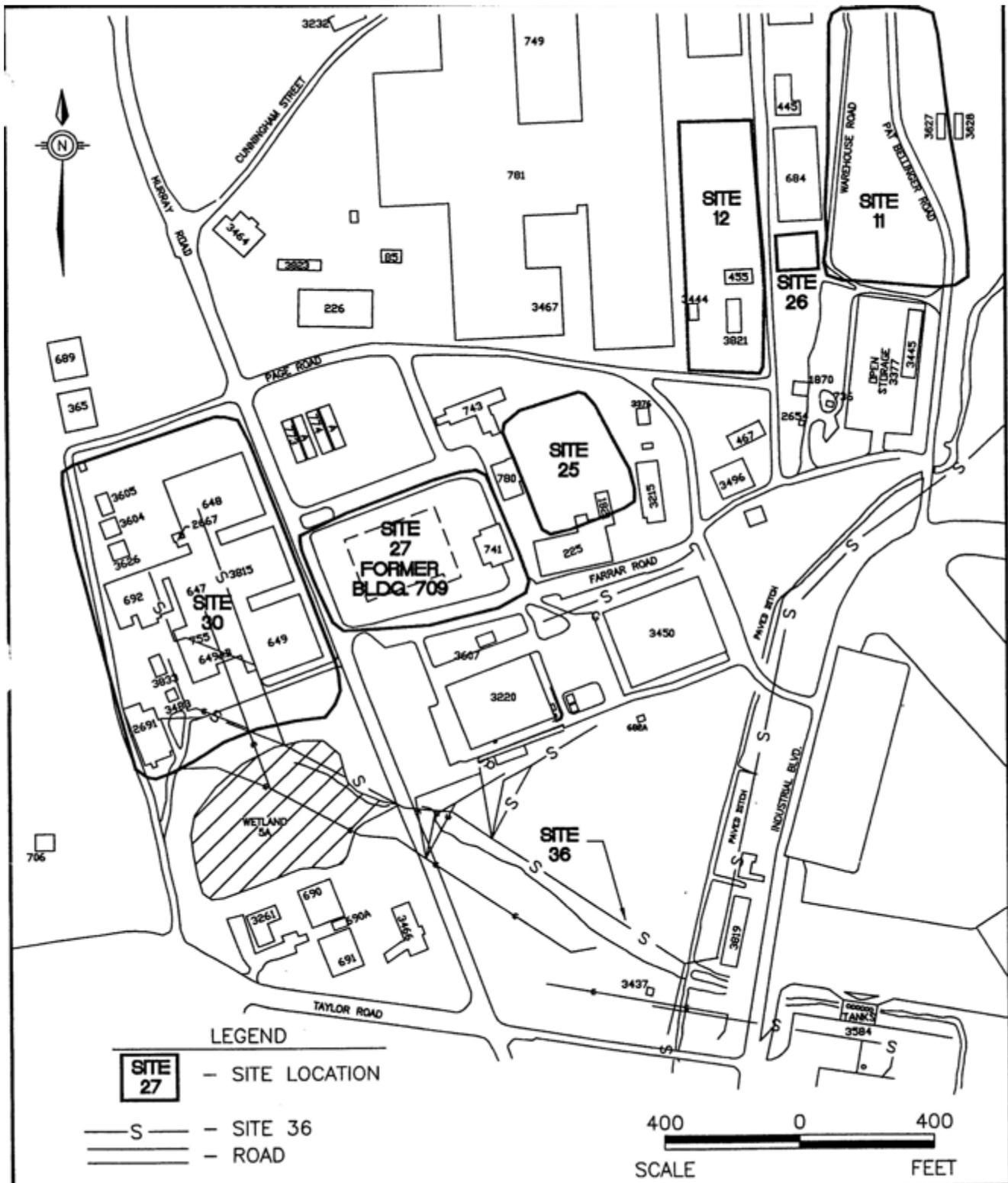
ALARA	As Low As Reasonably Achievable
ANS	American Nuclear Society
ANSI	American National Standards Institute
AWS	Aleut World Solutions, LLC
BLDG	building
CFR	Code of Federal Regulations
cpm	counts per minute
DOD	Department of Defense
dpm/100 cm ²	disintegrations per 100 square centimeters
ϵ_i	Instrument Efficiency
ϵ_s	Surface Efficiency Factor
ft	feet
ft ²	square feet
ISO	International Organization for Standardization
LLRW	Low Level Radioactive Waste
m	meter
m ²	square meter
MARSSIM	Multi-Agency Radiological Survey and Site Investigation Manual
mrem/y	millirem per year
N/A	not applicable
NaI	sodium iodide
NIST	National Institute of Standards and Technology
NRC	Nuclear Regulatory Commission
pCi/g	picocuries per gram
PM	Project Manager
QA	Quality Assurance
QC	Quality Control

RASO	Naval Sea Systems Command Detachment, Radiological Affairs Support Office
ROD	Record of Decision
SOPs	Standard Operating Procedures
TEDE	Total Effective Dose Equivalent
TLD	thermoluminescent dosimeter
μCi	microcuries
$\mu\text{R/h}$	micro roentgens per hour
y	year

1.0 EXECUTIVE SUMMARY

Aleut World Solutions, LLC (AWS) was contracted by the U.S. Army, Joint Munitions Command (JMC) to perform radiological scoping surveys and Sampling of Sites 12, 25, and 27 located at the Naval Air Station (NAS) Pensacola in Pensacola, Florida. The site was visited by two AWS, LLC personnel on April 29th and April 30th of 2009. Figure 1 presents a map of the locations of Sites 12, 25, and 27.

Figure 1 Site Location Map



2.0 BACKGROUND

Site 12, known as the Scrap Bins, is the Defense Reutilization and Marketing Office Recyclable Materials center. It is a storage yard for scrap materials including metals of all types, aircraft, scrap tires, used furniture, and a large amount of electronics. The Final Remedial Investigation Report, NAS Pensacola, OU-2, 10 Oct 1997 states that in addition to the radium contamination soil exceedances mainly included primary/secondary metals, polychlorinated-biphenyls (PCBs) and semi-volatile organic carbons (SVOCs).

The Navy used Sites 25 and 27 for painting aircraft instruments with luminous radium paint, and later for removal of paint from instruments. A July 1996 Technical Memorandum provides details of a Radiological Investigation the Navy had performed of this site. The summary of this report states that soil contamination is limited to a 30 by 50 foot area where previous work led to spilled or dumped radium paint. The contamination is only in the top foot of soil. The OU2 report also identifies a small area in Site 27, apparently a spill south of former Building 709, adjacent to an old stairway.

3.0 SUMMARY OF SITE VISIT

The following are the major activities conducted during the site visit:

- Meeting attended by AWS, LLC, NAS Pensacola personnel, U.S. EPA, NAVSEADDET RASO, NAVFAC Southeast, CH2M Hill, and AGVIQ, Inc. personnel.
- Radiological scoping surveys were performed at Sites 12, 25, and 27.

3.1 SITE MEETING

A site meeting was held by NAVFAC, NAS Pensacola, Navy contractors and stakeholders to discuss upcoming remedial activities to be performed in Sites 12, 25, and 27. The following issues/items were discussed during the meeting:

- Office space and restroom facilities. Temporary office trailers and restroom facilities will be provided by the contractors.
- Sources of import backfill soil. CH2M Hill personnel will try to provide names of local companies that can provide import backfill soil. Sampling requirements are outlined in the ROD.
- Forklift for moving waste containers. Forklift will be provided by the contractors.

- Truck scales. Greg Campbell will check on condition, availability, and calibration of scales on the base.
- Integration/coordination of activities by Rad and CERCLA contractors.
- Development of a site specific DCGL for Ra-226. Might have to develop using RESRAD. Want to use industrial scenario. U.S. EPA to be lead regulatory agency on concurrence of a site specific DCGL. The EPA does NOT want to have to modify the ROD to include this.
- Excavation permits. Should apply for excavation permits at least 30 days in advance of excavation. Greg Campbell provided the necessary documents and base contacts. Will also be necessary to call Sunshine State One Call of Florida prior to excavation @ 1 800-432-4770 a minimum of two full business days prior to the start of excavation.
- Site drawings. Greg Campbell provided electronic Auto Cad 2006 drawings of the general entire base which includes Sites 12, 25, and 27.
- Work timeline and schedule. It was discussed that a July of 2009 would be a rough start date for remediation/final status survey activities.
- Plumbing drawings for old Building 709. Pat Owens and Greg Campbell will look for drawings for the sanitary system that used to service Building 709 when it was in operation.
- Vehicles in the southern portion (south of Building 3821) in the DRMO Storage Yard Area (Site 12) will have to be moved so a 100% gamma scan survey can be performed during final status survey activities. This area is where radioactive material was previously discovered.
- Walked down Site 12, 25, and 27 areas with meeting attendees.

3.2 BACKGROUND REFERENCE AREA SURVEYS/SAMPLES

Site background reference areas were chosen that had similar physical, chemical, geological, radiological, and biological characteristics as the areas (or piece of equipment) being evaluated. Background reference areas were selected from non-impacted areas, but were not limited to natural areas undisturbed by human activities. The reference areas selected were not part of the areas being evaluated.

The site background count rate levels were established by obtaining sixteen, 1-minute static readings with each instrument used, taken on contact with concrete for alpha-beta surveys, and at 4-inches from concrete, gravel, and soil surfaces for gamma surveys from areas unlikely to be affected by the residual radioactive materials that could be present at the different survey areas. The average value for these readings was used as the area background radiation levels.

The results of the background reference area surveys are presented in Attachment 1.

In addition, four surface soil samples were collected from the background reference area and sent to an offsite laboratory for gamma spectroscopy analysis. A summary of the soils sample analysis is presented in Table 2 below. The soil sample laboratory data is presented in Attachment 4.

3.3 SITE 12 SCOPING SURVEYS

No scoping surveys were performed inside of the area due to vehicles being parked in the area. However, background reference area surveys were performed on concrete and gravel surfaces for alpha/beta and gamma radiations. The results are provided in Attachment #1.

3.4 SITE 25 SCOPING SURVEYS

1-minute fixed alpha/beta direct measurements were collected with a Ludlum Model 2360 Data Logger attached to a Ludlum Model 43-93 large area alpha/beta scintillation detector on the concrete pad areas outside of Building 780 where a radium spill occurred in the past. The survey was biased towards areas (cracks, seams, etc.) where the potential of contamination would be greatest. A total of twenty-five readings were collected. The results of the survey indicated a few small areas of elevated activity most likely due to naturally occurring radioactive material in the concrete.

Gamma scan surveys were also performed with a Ludlum Model-2350-1 Data Logger attached to a Ludlum Model 44-10 2" by 2" NaI Detector along the entire perimeter (out 2' feet) of the concrete pad behind Building 780. No detectable activity above background levels were found during this survey.

It is anticipated that no remediation will be required in this area following the performance of Final Status Surveys. Table 1 below presents a summary of the survey results. A copy of the survey report is presented in Attachment 2.

Table 1 Building 780 Survey Summary Table

Survey Area	Average Net Gross Alpha Results in dpm/100cm ²	Average Net Gross Beta Results in dpm/100cm ²	Maximum Net Gross Alpha Results in dpm/100cm ²	Maximum Net Gross Beta Results in dpm/100cm ²
Building 780 Outside Concrete Pads	20	157	158	629

3.5 SITE 27 SCOPING SURVEYS

3.5.1 Gamma Scan Surveys

Gamma scan surveys were performed with a Ludlum Model-2350-1 Data Logger attached to a Ludlum Model 44-10 2" by 2" NaI Detector of the southern outside perimeter area of old Building 709. The results ranged from between 3,500 gross cpm to 75,000 cpm. A copy of the survey report is presented in Attachment 3.

3.5.2 Soil Samples

Eight surface soil (0-6" in depth) samples were collected from various areas that were gamma scan surveyed and sent to an offsite laboratory for gamma spectroscopy analysis. A summary of the results of the soil sample analysis is presented in Table 2 below. The locations of the soil samples are presented in Attachment 3. The soil sample laboratory data is presented in Attachment 4.

3.5.3 Waste Profile Samples

Waste profile samples were collected and sent to an offsite laboratory for TCLP analysis. Based upon review of the sample analysis, there is no mixed waste anticipated. The TCLP analysis laboratory data is presented in Attachment 4.

Table 2 Soil Sample Summary Table

Sample ID#	Sample Matrix	Location/Description	Bi-214 Results in pCi/g	2 σ Uncertainty +/- pCi/g	Bi-214 Detection Limit in pCi/g	Cs-137 Results in pCi/g	2 σ Uncertainty +/- pCi/g	Cs-137 Detection Limit in pCi/g	Pb-212 Results in pCi/g	2 σ Uncertainty +/- pCi/g	Pb-212 Detection Limit in pCi/g	Pb-214 Results in pCi/g	2 σ Uncertainty +/- pCi/g	Pb-214 Detection Limit in pCi/g	Ra-226 Results in pCi/g	2 σ Uncertainty +/- pCi/g	Ra-226 Detection Limit in pCi/g	Bi-212 Results in pCi/g	2 σ Uncertainty +/- pCi/g	Bi-212 Detection Limit in pCi/g
NASPBG-1	Soil	Background Reference Area	0.310	0.110	0.110	0.048	0.051	0.080	0.197	0.079	0.086	0.365	0.097	0.110	0.310	0.110	0.110	0.170	0.260	0.440
NASPBG-2	Soil	Background Reference Area	0.099	0.093	0.160	-0.003	0.037	0.069	0.216	0.075	0.090	0.270	0.085	0.096	0.099	0.093	0.160	0.150	0.230	0.390
NASPBG-3	Soil	Background Reference Area	0.300	0.120	0.110	0.016	0.043	0.085	0.245	0.081	0.075	0.330	0.110	0.110	0.300	0.120	0.110	0.100	0.250	0.460
NASPBG-4	Soil	Background Reference Area	0.095	0.086	0.150	0.018	0.032	0.056	0.200	0.071	0.083	0.202	0.074	0.100	0.095	0.086	0.150	0.007	0.290	0.550
Maximum:			0.310			0.048			0.245			0.365			0.310			0.170		
Average:			0.201			0.020			0.215			0.292			0.201			0.107		
Standard Deviation:			0.120			0.021			0.022			0.072			0.120			0.073		
NASP-1	Soil	South of Old Building 709	6.080	0.590	0.230	0.680	0.130	0.090	0.440	0.160	0.180	6.620	0.570	0.200	6.080	0.590	0.230	0.300	0.520	0.870
NASP-2	Soil	South of Old Building 709	2.570	0.330	0.160	0.193	0.083	0.077	0.270	0.100	0.120	2.700	0.270	0.140	2.570	0.330	0.160	0.060	0.300	0.550
NASP-3	Soil	South of Old Building 709	4.030	0.420	0.130	0.179	0.071	0.077	0.370	0.120	0.130	3.480	0.370	0.190	4.030	0.420	0.130	0.200	0.450	0.780
NASP-4	Soil	South of Old Building 709	13.800	1.000	0.300	0.460	0.170	0.160	0.350	0.190	0.230	14.400	1.000	0.300	13.800	1.000	0.300	0.550	0.610	0.990
NASP-5	Soil	South of Old Building 709	4.920	0.430	0.130	0.272	0.080	0.069	0.530	0.160	0.170	5.060	0.450	0.200	4.920	0.430	0.130	0.150	0.360	0.610
NASP-6	Soil	South of Old Building 709	25.600	1.800	0.400	0.220	0.150	0.240	-0.050	0.630	0.440	26.900	1.800	0.500	25.600	1.800	0.400	2.300	1.100	1.600
NASP-7	Soil	South of Old Building 709	3.760	0.410	0.180	1.200	0.160	0.080	0.400	0.140	0.150	3.800	0.370	0.200	3.760	0.410	0.180	0.170	0.370	0.650
NASP-8	Soil	South of Old Building 709	138.000	8.300	0.800	0.001	0.270	0.460	-0.200	2.200	1.900	141.000	8.400	1.000	138.000	8.300	0.800	11.100	2.000	3.200
Maximum:			138.000			1.200			0.530			141.000			138.000			11.100		
Average:			24.845			0.401			0.264			25.495			24.845			1.854		
Standard Deviation:			46.368			0.382			0.254			47.382			46.368			3.808		

Based upon the results of the gamma scan surveys and soil sampling, an area approximately thirty feet by fifty feet in area, and one to two foot in depth will have to be remediated in order to meet cleanup standards.

3.6 OLD BUILDING 709 DRAIN LINE

No investigations or surveys were performed of the drain line that was removed inside of old Building 709. No detailed information was available as to its location at the time of the site visit.

4.0 CONCLUSION/RECOMMENDATIONS

Vehicles and equipment parked inside of the Site 12 area will have to be removed and/or relocated prior to performing Final Status Surveys in the area. It is anticipated that there will be no conflict/overlap with the CERCLA and Rad contractor's work/remediation activities in this area.

Based upon the scoping survey results of the concrete pad surrounding Building 780 (Site 25) it is anticipated that no remediation will be required following Final Status Surveys in this area. It is anticipated that there will be no conflict/overlap with the CERCLA and Rad contractor's work/remediation activities in this area.

Based upon the scoping survey and soil sample results of the southern perimeter outside area of old Building 709 (Site 27) it is estimated that an area approximately thirty feet by fifty feet in area, and one to two foot in depth (1,500 cubic feet to 3,000 cubic feet) will have to be remediated in order to meet

cleanup standards. It is unknown at this time if there will be a conflict/overlap with the CERCLA and Rad contractors work/remediation activities in this area.

Vehicles parked (parking lot is the old floor of old Building 709) in the southern portion of this area will have to be removed in order to perform Final Status Surveys (alpha/beta scan and direct measurement surveys) in this area.

Attachment 1
Background Reference Area Surveys

Aleut World Solutions
Background Determination Data Sheet

Project/Location:		NAS Pensacola/Building 3560			
Instrument Model:		2360	Instrument Serial No.		145469
Last Calibration Date:		9/8/2008			
Detector Model:		43-93	Detector Serial No.:		200130
Today's Date:		4/29/2009	Data Collected by:		Richard Kountz
Alpha		X	Beta-Gamma		Gamma
Remarks: Instrument Ambient Background					
Type of Surface:	Wood Desk	Count Time:		1	Minutes
Count Number		$(x - \bar{x})$		$(x - \bar{x})^2$	
1	205	2.69		7.22	
2	200	-2.31		5.35	
3	211	8.69		75.47	
4	219	16.69		278.47	
5	208	5.69		32.35	
6	191	-11.31		127.97	
7	198	-4.31		18.60	
8	199	-3.31		10.97	
9	194	-8.31		69.10	
10	186	-16.31		266.10	
11	227	24.69		609.47	
12	193	-9.31		86.72	
13	202	-0.31		0.10	
14	196	-6.31		39.85	
15	195	-7.31		53.47	
16	213	10.69		114.22	
Mean Count: \bar{x}	202.31		SUM	1795.44	
Standard Deviation (σ)	10.94		Variance:	61.91	
Background Count Rate:	202.31	CPM +-	32.82	CPM	Action Level 235.13
Calculations Completed by:	Richard Kountz				Date: 4/29/2009
Reviewed by:	Daniel Spicuzza				Date: 4/29/2009

Aleut World Solutions
Background Determination Data Sheet

Project/Location:		NAS Pensacola/Building 3560			
Instrument Model:		2360	Instrument Serial No.		145469
Last Calibration Date:		9/8/2008			
Detector Model:		43-93	Detector Serial No.:		200130
Today's Date:		4/29/2009	Data Collected by:		Richard Kountz
X	Alpha		Beta-Gamma		Gamma
Remarks: Instrument Ambient Background					
Type of Surface:	Wood Desk		Count Time:	1	Minutes
Count Number		$(x - \bar{x})$		$(x - \bar{x})^2$	
1	2	0.25		0.06	
2	2	0.25		0.06	
3	2	0.25		0.06	
4	2	0.25		0.06	
5	3	1.25		1.56	
6	1	-0.75		0.56	
7	2	0.25		0.06	
8	2	0.25		0.06	
9	0	-1.75		3.06	
10	2	0.25		0.06	
11	1	-0.75		0.56	
12	2	0.25		0.06	
13	1	-0.75		0.56	
14	2	0.25		0.06	
15	2	0.25		0.06	
16	2	0.25		0.06	
Mean Count: \bar{x}	1.75		SUM	7.00	
Standard Deviation (σ)	0.68		Variance:	0.24	
Background Count Rate:		1.75	CPM +-	2.05	CPM
Calculations Completed by:	Richard Kountz				Date: 4/29/2009
Reviewed by:	Daniel Spicuzza				Date: 4/29/2009

Aleut World Solutions
Background Determination Data Sheet

Project/Location:		NAS Pensacola/Building 3560			
Instrument Model:		2350-1	Instrument Serial No.		117014
Last Calibration Date:		4/15/2009			
Detector Model:		44-10	Detector Serial No.:		192598
Today's Date:		4/29/2009	Data Collected by:		Richard Kountz
	Alpha		Beta-Gamma	X	Gamma
Remarks: Instrument Ambient Background					
Type of Surface:	Wood Desk		Count Time:	1	Minutes
Count Number		$(x - \bar{x})$		$(x - \bar{x})^2$	
1	3088	-170.25		28985.06	
2	3491	232.75		54172.56	
3	3286	27.75		770.06	
4	3349	90.75		8235.56	
5	3187	-71.25		5076.56	
6	3299	40.75		1660.56	
7	3026	-232.25		53940.06	
8	3265	6.75		45.56	
9	3098	-160.25		25680.06	
10	2890	-368.25		135608.06	
11	3421	162.75		26487.56	
12	3512	253.75		64389.06	
13	3359	100.75		10150.56	
14	3269	10.75		115.56	
15	3317	58.75		3451.56	
16	3275	16.75		280.56	
Mean Count: \bar{x}	3258.25		SUM	419049.00	
Standard Deviation (σ)	167.14		Variance:	14449.97	
Background Count Rate:		3258.25	CPM +-	501.43	CPM
Calculations Completed by:	Richard Kountz				Date: 4/29/2009
Reviewed by:	Daniel Spicuzza				Date: 4/29/2009
				Action Level	CPM
					3759.68

Aleut World Solutions
Background Determination Data Sheet

Project/Location:		NAS Pensacola/Building 709 Area	
Instrument Model:		2360	Instrument Serial No. 145469
Last Calibration Date:		9/8/2008	
Detector Model:		43-93	Detector Serial No.: 200130
Today's Date:		4/30/2009	Data Collected by: Richard Kountz
X	Alpha	Beta-Gamma	Gamma
Remarks: Instrument Ambient Background			
Type of Surface:	Concrete	Count Time:	1 Minutes
Count Number		$(x - \bar{x})$	$(x - \bar{x})^2$
1	9	0.88	0.77
2	8	-0.13	0.02
3	8	-0.13	0.02
4	6	-2.13	4.52
5	8	-0.13	0.02
6	11	2.88	8.27
7	7	-1.13	1.27
8	9	0.88	0.77
9	6	-2.13	4.52
10	10	1.88	3.52
11	15	6.88	47.27
12	4	-4.13	17.02
13	7	-1.13	1.27
14	9	0.88	0.77
15	6	-2.13	4.52
16	7	-1.13	1.27
Mean Count: \bar{x}	8.13	SUM	95.75
Standard Deviation (σ)	2.53	Variance:	3.30
Background Count Rate:	8.13	CPM + -	7.58 CPM
Calculations Completed by:	Richard Kountz		Date: 4/30/2009
Reviewed by:	Daniel Spicuzza		Date: 4/30/2009

Aleut World Solutions
Background Determination Data Sheet

Project/Location:		NAS Pensacola/Building 709 Area	
Instrument Model:		2360	Instrument Serial No. 145469
Last Calibration Date:		9/8/2008	
Detector Model:		43-93	Detector Serial No.: 200130
Today's Date:		4/30/2009	Data Collected by: Richard Kountz
Alpha		X	Beta-Gamma
Gamma			
Remarks: Instrument Ambient Background			
Type of Surface:	Concrete	Count Time:	1 Minutes
Count Number		$(x - \bar{x})$	$(x - \bar{x})^2$
1	272	14.88	221.27
2	228	-29.13	848.27
3	277	19.88	395.02
4	230	-27.13	735.77
5	245	-12.13	147.02
6	269	11.88	141.02
7	269	11.88	141.02
8	273	15.88	252.02
9	258	0.88	0.77
10	252	-5.13	26.27
11	245	-12.13	147.02
12	238	-19.13	365.77
13	246	-11.13	123.77
14	275	17.88	319.52
15	259	1.88	3.52
16	278	20.88	435.77
Mean Count: \bar{x}	257.13	SUM	4303.75
Standard Deviation (σ)	16.94	Variance:	148.41
Background Count Rate:	257.13	CPM +-	50.82 CPM
Calculations Completed by:	Richard Kountz		Date: 4/30/2009
Reviewed by:	Daniel Spicuzza		Date: 4/30/2009
			Action Level CPM 307.94

Aleut World Solutions
Background Determination Data Sheet

Project/Location:		NAS Pensacola/Outside of DRMO Yard Area			
Instrument Model:		2360	Instrument Serial No.		145469
Last Calibration Date:		9/8/2008			
Detector Model:		43-93	Detector Serial No.:		200130
Today's Date:		4/29/2009	Data Collected by:		Richard Kountz
X	Alpha	Beta-Gamma	Gamma		
Remarks: Instrument Ambient Background					
Type of Surface:	Concrete	Count Time:	1	Minutes	
Count Number		$(x - \bar{x})$		$(x - \bar{x})^2$	
1	10	3.13		9.77	
2	8	1.13		1.27	
3	13	6.13		37.52	
4	5	-1.88		3.52	
5	6	-0.88		0.77	
6	4	-2.88		8.27	
7	3	-3.88		15.02	
8	12	5.13		26.27	
9	6	-0.88		0.77	
10	7	0.13		0.02	
11	6	-0.88		0.77	
12	4	-2.88		8.27	
13	8	1.13		1.27	
14	4	-2.88		8.27	
15	6	-0.88		0.77	
16	8	1.13		1.27	
Mean Count: \bar{x}	6.88	SUM	123.75		
Standard Deviation (σ)	2.87	Variance:	4.27	Action Level	CPM
Background Count Rate:	6.88	CPM + -	8.62	CPM	15.49
Calculations Completed by:	Richard Kountz				Date: 4/29/2009
Reviewed by:	Daniel Spicuzza				Date: 4/29/2009

Aleut World Solutions
Background Determination Data Sheet

Project/Location:		NAS Pensacola/Outside of DRMO Yard Area			
Instrument Model:		2360	Instrument Serial No.:		145469
Last Calibration Date:		9/8/2008			
Detector Model:		43-93	Detector Serial No.:		200130
Today's Date:		4/29/2009	Data Collected by:		Richard Kountz
Alpha		X	Beta-Gamma		Gamma
Remarks: Instrument Ambient Background					
Type of Surface:	Concrete		Count Time:	1	Minutes
Count Number		$(x - \bar{x})$		$(x - \bar{x})^2$	
1	224	-13.06		170.63	
2	231	-6.06		36.75	
3	254	16.94		286.88	
4	263	25.94		672.75	
5	230	-7.06		49.88	
6	234	-3.06		9.38	
7	228	-9.06		82.13	
8	213	-24.06		579.00	
9	235	-2.06		4.25	
10	244	6.94		48.13	
11	237	-0.06		0.00	
12	251	13.94		194.25	
13	239	1.94		3.75	
14	240	2.94		8.63	
15	229	-8.06		65.00	
16	241	3.94		15.50	
Mean Count: \bar{x}	237.06		SUM	2226.94	
Standard Deviation (σ)	12.18		Variance:	76.79	
Background Count Rate:	237.06		CPM +-	36.55	CPM
Calculations Completed by:	Richard Kountz				Date: 4/29/2009
Reviewed by:	Daniel Spicuzza				Date: 4/29/2009
		Action Level		CPM	
				273.62	

Aleut World Solutions
Background Determination Data Sheet

Project/Location:		NAS Pensacola/Outside of DRMO Yard Area			
Instrument Model:		2350-1	Instrument Serial No.		117014
Last Calibration Date:		4/15/2009			
Detector Model:		44-10	Detector Serial No.:		192598
Today's Date:		4/29/2009	Data Collected by:		Richard Kountz
Alpha		Beta-Gamma		X	Gamma
Remarks: Instrument Ambient Background					
Type of Surface:	Gravel		Count Time:	1	Minutes
Count Number		$(x - \bar{x})$		$(x - \bar{x})^2$	
1	4477	-212.81		45289.16	
2	4560	-129.81		16851.29	
3	4505	-184.81		34155.66	
4	4944	254.19		64611.29	
5	4579	-110.81		12279.41	
6	4639	-50.81		2581.91	
7	4563	-126.81		16081.41	
8	4727	37.19		1382.91	
9	4709	19.19		368.16	
10	4558	-131.81		17374.54	
11	4639	-50.81		2581.91	
12	5005	315.19		99343.16	
13	4873	183.19		33557.66	
14	4699	9.19		84.41	
15	4758	68.19		4649.54	
16	4802	112.19		12586.04	
Mean Count: \bar{x}	4689.81		SUM	363778.44	
Standard Deviation (σ)	155.73		Variance:	12544.08	
Background Count Rate:	4689.81		CPM +-	467.19	CPM
Calculations Completed by:	Richard Kountz				Date: 4/29/2009
Reviewed by:	Daniel Spicuzza				Date: 4/29/2009
Action Level		CPM		5157.00	

Aleut World Solutions
Background Determination Data Sheet

Project/Location:		NAS Pensacola/Outside of DRMO Yard Area			
Instrument Model:		2350-1	Instrument Serial No.		117014
Last Calibration Date:		4/15/2009			
Detector Model:		44-10	Detector Serial No.:		192598
Today's Date:		4/29/2009	Data Collected by:		Richard Kountz
Alpha		Beta-Gamma		X	Gamma
Remarks: Instrument Ambient Background					
Type of Surface:	Concrete		Count Time:	1	Minutes
Count Number		$(x - \bar{x})$		$(x - \bar{x})^2$	
1	3544	151.31		22895.47	
2	3505	112.31		12614.10	
3	3552	159.31		25380.47	
4	3658	265.31		70390.72	
5	3244	-148.69		22107.97	
6	3280	-112.69		12698.47	
7	3373	-19.69		387.60	
8	4409	1016.31		1032891.10	
9	3226	-166.69		27784.72	
10	3278	-114.69		13153.22	
11	3345	-47.69		2274.10	
12	3462	69.31		4804.22	
13	3621	228.31		52126.60	
14	2198	-1194.69		1427278.22	
15	3301	-91.69		8406.60	
16	3287	-105.69		11169.85	
Mean Count: \bar{x}	3392.69		SUM	2746363.44	
Standard Deviation (σ)	427.89		Variance:	94702.19	Action Level
Background Count Rate:	3392.69		CPM +-	1283.67	CPM
Calculations Completed by:	Richard Kountz				Date: 4/29/2009
Reviewed by:	Daniel Spicuzza				Date: 4/29/2009
					CPM 4676.36

Aleut World Solutions
Background Determination Data Sheet

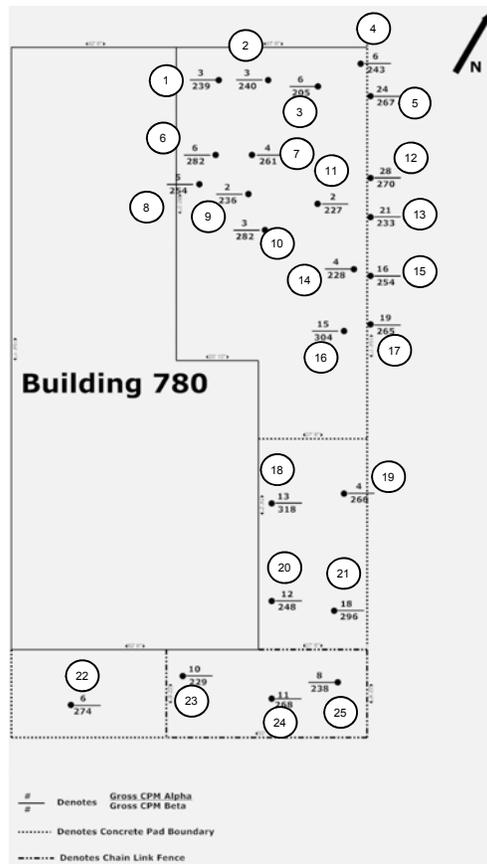
Project/Location:	NAS Pensacola		
Instrument Model:	2350-1	Instrument Serial No.:	117014
Last Calibration Date:	4/15/2009		
Detector Model:	44-10	Detector Serial No.:	192598
Today's Date:	4/29/2009	Data Collected by:	Richard Kountz
	Alpha	Beta-Gamma	X Gamma
Remarks:	Instrument Ambient Background		
Type of Surface:	Soil	Count Time:	1 Minutes
Count Number		$(x - \bar{x})$	$(x - \bar{x})^2$
1	3562	167.06	27909.88
2	3215	-179.94	32377.50
3	3346	-48.94	2394.88
4	3463	68.06	4632.50
5	3383	-11.94	142.50
6	3289	-105.94	11222.75
7	3473	78.06	6093.75
8	3421	26.06	679.25
9	3260	-134.94	18208.13
10	3576	181.06	32783.63
11	3348	-46.94	2203.13
12	3421	26.06	679.25
13	3239	-155.94	24316.50
14	3438	43.06	1854.38
15	3298	-96.94	9396.88
16	3587	192.06	36888.00
Mean Count: \bar{x}	3394.94	SUM	211782.94
Standard Deviation (σ)	118.82	Variance:	7302.86
Background Count Rate:	3394.94	CPM +-:	356.47 CPM
Calculations Completed by:	Richard Kountz		Date: 4/29/2009
Reviewed by:	Daniel Spicuzza		Date: 4/29/2009

Attachment 2
Building 780 Scoping Survey Report

RADIATION/CONTAMINATION SURVEY FORM Page 1 of 2

DATE:	TIME:	INSTRUMENTATION USED							
		Model Inst/Det.	Serial Number	Calibration Due Date	Instrument	% Efficiency	Total % Efficiency	MDC/MDA ⁺ (dpm/100cm ²)	Background ⁺ (dpm/100cm ²)
4/30/2009	08:00	2360	145469	4/15/2010	α	39.90%	α 9.98%	α 162.99	α 81.50
SURVEY NUMBER: NASP-SS-1		43-93	200130		βγ	39.40%	βγ 9.85%	βγ 761.65	βγ 2435.53
LOCATION: NAS Pensacola		N/A	N/A	N/A	α	N/A	α N/A	α N/A	α N/A
					βγ	N/A	βγ N/A	βγ N/A	βγ N/A
SURVEYOR: Richard Kountz									
Reviewed By: Daniel Spicuzza		2350-1	117014	4/15/2010					3395
		44-10	192598						CPM
Isotopes of Concern: ²²⁶ Ra		Static Count Time: 1 Minutes							

Description of drawing: Building 780 Outside Concrete Pad



Comments:

No swipes were collected at survey location points.
 Gamma scan survey results around a 2' perimeter of the pad was between 3,500 cpm tp 4,000 cpm gross.

- # denotes swipe location and fixed α/β readings
- # denotes G/A radiation readings
- # / # denotes contact / 1 meter radiation readings.
- * denotes highest radiation reading on contact
- LAW denotes large area masslinn wipe
- Δ denotes static location.
- + Unless Otherwise Noted
- All readings in μr/hr unless otherwise noted
- K = 1000

Routine (Daily / Weekly / Monthly) Non-routine

RADIATION/CONTAMINATION SURVEY SUPPLEMENT **Page 2 of 2**

SURVEY NUMBER: NASP-SS-1								
SURVEYOR: Richard Kountz				LOCATION: NAS Pensacola				
Location	Exposure Rate (µR/hr)		Fixed + Removable (NET)			Removable (NET)		Comments
	Contact	1 Meter	Gamma (cpm)	Alpha dpm/100cm ²	Beta/Gamma dpm/100cm ²	Alpha dpm/100cm ²	Beta/Gamma dpm/100cm ²	
1				-40.8	-7.3			
2				-40.8	0.8			
3				-16.9	-281.2			
4				-16.9	25.0			
5				126.3	218.4			
6				-16.9	339.2			
7				-32.9	170.0			
8				-24.9	113.6			
9				-48.8	-31.4			
10				-40.8	339.2			
11				-48.77	-103.94			
12				158.09	242.53			
13				102.40	-55.60			
14				-32.86	-95.88			
15				62.62	113.61			
16				54.66	516.48			
17				86.49	202.24			
18				38.75	629.28			
19				-32.86	210.30			
20				30.79	65.26			
21				78.53	452.02			
22				-16.95	274.76			
23				14.88	-87.83			
24				22.83	226.41			
25				-1.03	-15.31			
26								
27								
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29								
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31								
32								
Blank								
Reviewer Daniel Spicuzza			Date: 5/4/2009					
			Time: 1000					

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Attachment 3
Old Building 709 Southern Perimeter Scoping Survey

RADIATION/CONTAMINATION SURVEY FORM Page 1 of 2

DATE: 4/30/2009	TIME: 10:20	INSTRUMENTATION USED							
		Model Inst/Det.	Serial Number	Calibration Due Date	Instrument	% Efficiency	Total % Efficiency	MDC/MDA + (dpm/100cm²)	Background + (dpm/100cm²)
SURVEY NUMBER: NASP-SS-3									
LOCATION: NAS Pensacola									
SURVEYOR: Richard Kountz									
Reviewed By: Daniel Spicuzza		2350-1 44-10	117014 192598	4/15/2010					3395 CPM
Isotopes of Concern: ²²⁶ Ra		Static Count Time: N/A Minutes							

Description of drawing: Southern Perimeter of Old Building 709



Comments:
Gamma scan survey results.

denotes swipe location and fixed α/β readings
 # denotes G/A radiation readings
 #/# denotes contact / 1 meter radiation readings.
 * denotes highest radiation reading on contact
 LAW denotes large area masslinn wipe
 Δ denotes static location.
 + Unless Otherwise Noted
 ☆ denotes solid sample location
 K = 1000

Routine (Daily / Weekly / Monthly) Non-routine

RADIATION/CONTAMINATION SURVEY FORM Page 1 of 2

DATE:	TIME:	INSTRUMENTATION USED							
		Model Inst/Det.	Serial Number	Calibration Due Date	Instrument	% Efficiency	Total % Efficiency	MDC/MDA ⁺ (dpm/100cm ²)	Background ⁺ (dpm/100cm ²)
4/30/2009	10:00	2360	145469	4/15/2010	α	39.90%	α 9.98%	α 162.99	α 81.50
SURVEY NUMBER: NASP-SS-2		43-93	200130		βγ	39.40%	βγ 9.85%	βγ 787.26	βγ 2609.14
LOCATION: NAS Pensacola		N/A	N/A	N/A	α	N/A	α N/A	α N/A	α N/A
					βγ	N/A	βγ N/A	βγ N/A	βγ N/A
SURVEYOR: Richard Kountz									
Reviewed By: Daniel Spicuzza		2350-1	117014	4/15/2010					3395
		44-10	192598						CPM
Isotopes of Concern: ²²⁶ Ra		Static Count Time: 1 Minutes							

Description of drawing: Southern Perimeter of Old Building 709



Comments:

No swipes were collected at survey location points.
Gamma scan survey results are provided on a separate survey report.

- # denotes swipe location and fixed α/β readings
 - # denotes G/A radiation readings
 - #/# denotes contact / 1 meter radiation readings.
 - * denotes highest radiation reading on contact
 - LAW denotes large area masslinn wipe
 - Δ denotes static location.
 - + Unless Otherwise Noted
 - ☆ denotes solid sample location
- K = 1000

Routine (Daily / Weekly / Monthly) Non-routine

RADIATION/CONTAMINATION SURVEY SUPPLEMENT **Page 2 of 2**

SURVEY NUMBER: NASP-SS-2								
SURVEYOR: Richard Kountz				LOCATION: NAS Pensacola				
Location	Exposure Rate (µR/hr)		Fixed + Removable (NET)			Removable (NET)		Comments
	Contact	1 Meter	Gamma (cpm)	Alpha dpm/100cm ²	Beta/Gamma dpm/100cm ²	Alpha dpm/100cm ²	Beta/Gamma dpm/100cm ²	
1				94.4	282.0			
2				70.6	556.0			
3				14.9	-24.2			
4				38.7	515.7			
5				30.8	564.0			
6				-1.0	72.5			
7				14.9	274.0			
8				86.5	-88.6			
9				46.7	443.2			
10				54.7	120.9			
11				102.40	491.50			
12				54.66	185.32			
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Blank								
Reviewer Daniel Spicuzza			Date: 5/4/2009					
			Time: 1030					

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Attachment 4
Soil Sample Laboratory Data

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

NAS Pensacola FL P1

Lot #: F9E010358

Dan Spicuzza

Bering Sea Environmental LLC
dba Aleut World Solutions
4300 B Street, Suite 402
Anchorage, AK 99503

TESTAMERICA LABORATORIES, INC.



Ivan Vania
Project Manager

May 28, 2009

Case Narrative
LOT NUMBER: F9E010358

This report contains the analytical results for the 15 samples received under chain of custody by TestAmerica St. Louis on May 1, 2009. These samples are associated with your NAS Pensacola FL P1 project.

The analytical results included in this report meet all applicable quality control procedure requirements except as noted on the following page.

The test results in this report meet all NELAP requirements for parameters in which accreditations are held by TestAmerica St. Louis. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of this report.

All chemical analysis results are based upon sample as received, wet weight, unless noted otherwise. All radiochemistry results are based upon sample as dried and ground with the exception of tritium, unless requested wet weight by the client.

Observations/Nonconformances

Reference the chain of custody and condition upon receipt report for any variations on receipt conditions and temperature of samples on receipt.

Volatile Organics Method SW846 8260B

Batch: 9137047

The LCS recovery for Vinyl chloride is outside the upper QC limits, indicating a potential positive bias for that analyte. This analyte was not observed above the reporting limit in the associated samples; therefore the sample data was not adversely affected by this excursion. The original sample results are provided.

The MSD recoveries for Vinyl chloride, Chloroform and Carbon tetrachloride are outside the upper QC limits, indicating a potential positive bias for these analytes. These analytes were not observed above the reporting limit in the associated samples; therefore the sample data was not adversely affected by this excursion. The original sample results are provided.

The MS/MSD RPD's are not within method acceptance criteria for 1,1-Dichloroethene and 2-Butanone. MS/MSD recoveries are within QC limits demonstrating good extraction performance in the sample matrix.

Affected Samples:

F9E010358 (13): NASPW-1

F9E010358 (15): NASPW-3

F9E010358 (14): NASPW-2

Semivolatile Organic Compounds Method SW846 8270C

Batch: 9138543

The Method Blank surrogate recovery is outside acceptance limits. Samples, associated with this method blank, demonstrated acceptable surrogate recoveries indicating the surrogate excursion is isolated to the method blank and not indicative of the batch. Sample results are reported with this narrative.

The LCS surrogate recovery is outside acceptance limits. LCS spike recoveries are within QC limits demonstrating acceptable sample extraction and instrument performance. There is an apparent anomaly in the surrogate addition.

Pyridine recovered outside QC limits in the MS/MSD. While the RPD failed between the MS/MSD, the recovery in both the MS and MSD was <10%. There is an apparent matrix interference in the sample. The data is reported with this narrative.

Affected Samples:

F9E010358 (13): NASPW-1

F9E010358 (15): NASPW-3

F9E010358 (14): NASPW-2

Chlorinated Herbicides Method SW846 8151A

Batch: 9134384

The Method Blank surrogate recovery is outside acceptance limits. Samples, associated with this method blank, demonstrated acceptable surrogate recoveries indicating the surrogate excursion is isolated to the method blank and not indicative of the batch. Sample results are reported with this narrative.

Affected Samples:

F9E010358 (13): NASPW-1 F9E010358 (15): NASPW-3
 F9E010358 (14): NASPW-2

Inductively Coupled Plasma (TCLP) Method SW846 6010B

Batch: 9134391

The MS recovery for zinc is outside the established QC limits. The RPD is within method acceptance criteria indicating a possible matrix interference. Method performance is demonstrated by acceptable LCS recovery.

Affected Samples:

F9E010358 (13): NASPW-1 F9E010358 (15): NASPW-3
 F9E010358 (14): NASPW-2

Gamma Spectroscopy Method EML GA-01-R MOD

Lead-214 analyzed by gamma spectroscopy was detected above the MDA in the blank. Variations in Compton backgrounds and statistical analyses allowed for small area counts in the ROIs of this nuclide. Other decay chain products are not present in the blank to support Lead 214 identification. The data is reported.

Affected Samples:

F9E010358 (1): NASP-1 F9E010358 (7): NASP-7
 F9E010358 (2): NASP-2 F9E010358 (8): NASP-8
 F9E010358 (3): NASP-3 F9E010358 (9): NASPBG-1
 F9E010358 (4): NASP-4 F9E010358 (10): NASPBG-2
 F9E010358 (5): NASP-5 F9E010358 (11): NASPBG-3
 F9E010358 (6): NASP-6 F9E010358 (12): NASPBG-4

The reporting limit was not met due to the activity of the sample. The analytical results are reported with the MDA achieved.

Affected Samples:

F9E010358 (1): NASP-1 F9E010358 (6): NASP-6
 F9E010358 (4): NASP-4 F9E010358 (8): NASP-8

METHODS SUMMARY

F9E010358

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
Chlorinated Herbicides by GC	SW846 8151A	SW846 1311/8150
Gamma Spectroscopy - Radium-226 & Hits	EML GA-01-R MOD	
Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 1311/3010
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A	SW846 1311/7470
Organochlorine Pesticides	SW846 8081A	SW846 1311/3520
Semivolatile Organic Compounds by GC/MS	SW846 8270C	SW846 1311/3510
Volatile Organics by GC/MS	SW846 8260B	SW846 1311/5030

References:

- EML "ENVIRONMENTAL MEASUREMENTS LABORATORY PROCEDURES MANUAL"
HASL-300 28TH EDITION, VOLUME I and II DEPARTMENT OF ENERGY
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical
Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

F9E010358

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
LA8A3	001	NASP-1	04/30/09	08:30
LA8CK	002	NASP-2	04/30/09	08:35
LA8CL	003	NASP-3	04/30/09	08:40
LA8CM	004	NASP-4	04/30/09	08:45
LA8CP	005	NASP-5	04/30/09	08:50
LA8CQ	006	NASP-6	04/30/09	09:05
LA8CT	007	NASP-7	04/30/09	09:15
LA8CV	008	NASP-8	04/30/09	09:10
LA8CW	009	NASPBG-1	04/30/09	09:40
LA8C0	010	NASPBG-2	04/30/09	09:42
LA8C3	011	NASPBG-3	04/30/09	09:45
LA8DC	012	NASPBG-4	04/30/09	09:50
LA8DD	013	NASPW-1	04/30/09	09:00
LA8DP	014	NASPW-2	04/30/09	09:00
LA8DT	015	NASPW-3	04/30/09	09:00

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Bering Sea Environmental LLC

Client Sample ID: NASPW-1

TCLP GC/MS Volatiles

Lot-Sample #...: F9E010358-013 Work Order #...: LA8DD1AE Matrix.....: SOLID
 Date Sampled...: 04/30/09 09:00 Date Received...: 05/01/09
 Leach Date.....: 05/12/09 Prep Date.....: 05/14/09 Analysis Date...: 05/14/09
 Leach Batch #...: P913215 Prep Batch #...: 9137047 Analysis Time...: 20:28
 Dilution Factor: 1
 % Moisture.....: Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
1,1-Dichloroethene	ND	50	ug/L
Tetrachloroethene	ND	50	ug/L
Benzene	ND	50	ug/L
2-Butanone	ND	50	ug/L
Carbon tetrachloride	ND	50	ug/L
Chlorobenzene	ND	50	ug/L
Chloroform	ND	50	ug/L
1,2-Dichloroethane	ND	50	ug/L
Trichloroethene	ND	50	ug/L
Vinyl chloride	ND	100	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	102	(77 - 127)
Toluene-d8	91	(77 - 122)
4-Bromofluorobenzene	103	(73 - 119)
1,2-Dichloroethane-d4	96	(78 - 124)

NOTE(S) :

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Bering Sea Environmental LLC

Client Sample ID: NASPW-1

TCLP GC/MS Semivolatiles

Lot-Sample #....: F9E010358-013 Work Order #....: LA8DD1AQ Matrix.....: SOLID
 Date Sampled....: 04/30/09 09:00 Date Received...: 05/01/09
 Leach Date.....: 05/13/09 Prep Date.....: 05/14/09 Analysis Date...: 05/18/09
 Leach Batch #...: P913308 Prep Batch #....: 9138543 Analysis Time...: 20:55
 Dilution Factor: 1
 % Moisture.....: Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,4-Dichlorobenzene	ND	50	ug/L
2,4-Dinitrotoluene	ND	50	ug/L
Hexachlorobenzene	ND	50	ug/L
Hexachlorobutadiene	ND	50	ug/L
Hexachloroethane	ND	50	ug/L
2-Methylphenol	ND	50	ug/L
Nitrobenzene	ND	50	ug/L
Pentachlorophenol	ND	250	ug/L
Pyridine	ND	100	ug/L
2,4,5-Trichloro-phenol	ND	50	ug/L
2,4,6-Trichloro-phenol	ND	50	ug/L
3-Methylphenol & 4-Methylphenol	ND	100	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	38	(25 - 92)
Phenol-d5	25	(18 - 94)
Nitrobenzene-d5	66	(38 - 83)
2-Fluorobiphenyl	60	(30 - 90)
Terphenyl-d14	74	(30 - 104)
2,4,6-Tribromophenol	70	(29 - 111)

NOTE (S) :

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Bering Sea Environmental LLC

Client Sample ID: NASPW-1

TCLP GC Semivolatiles

Lot-Sample #...: F9E010358-013 Work Order #...: LA8DD1AT Matrix.....: SOLID
 Date Sampled...: 04/30/09 09:00 Date Received...: 05/01/09
 Leach Date.....: 05/13/09 Prep Date.....: 05/14/09 Analysis Date...: 05/20/09
 Leach Batch #...: P913308 Prep Batch #...: 9134385 Analysis Time...: 01:44
 Dilution Factor: 1
 % Moisture.....: Method.....: SW846 8081A

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Chlordane (technical)	ND	5.0	ug/L
gamma-BHC (Lindane)	ND	0.50	ug/L
Endrin	ND	0.50	ug/L
Heptachlor	ND	0.50	ug/L
Heptachlor epoxide	ND	0.50	ug/L
Methoxychlor	ND	1.0	ug/L
Toxaphene	ND	20	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Tetrachloro-m-xylene	90	(66 - 148)
Decachlorobiphenyl	108	(68 - 146)

NOTE(S) :

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Bering Sea Environmental LLC

Client Sample ID: NASPW-1

TCLP GC Semivolatiles

Lot-Sample #...: F9E010358-013 Work Order #...: LA8DD1AR Matrix.....: SOLID
 Date Sampled...: 04/30/09 09:00 Date Received...: 05/01/09
 Leach Date.....: 05/13/09 Prep Date.....: 05/14/09 Analysis Date...: 05/18/09
 Leach Batch #...: P913308 Prep Batch #...: 9134384 Analysis Time...: 21:34
 Dilution Factor: 1
 % Moisture.....: Method.....: SW846 8151A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
2,4-D	ND	40	ug/L
2,4,5-TP (Silvex)	ND	10	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
2,4-Dichlorophenylacetic acid	77	(71 - 124)

NOTE(S) :

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Bering Sea Environmental LLC

Client Sample ID: NASPW-1

TCLP Metals

Lot-Sample #...: F9E010358-013

Matrix.....: SOLID

Date Sampled...: 04/30/09 09:00 Date Received...: 05/01/09

Leach Date.....: 05/13/09 Leach Batch #...: P913308

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
		LIMIT	UNITS			
Prep Batch #...: 9134391						
Silver	ND	20	ug/L	SW846 6010B	05/14-05/18/09	LA8DD1AL
		Dilution Factor: 1		Analysis Time...: 12:59		
Arsenic	ND	200	ug/L	SW846 6010B	05/14-05/18/09	LA8DD1AF
		Dilution Factor: 1		Analysis Time...: 12:59		
Barium	377	200	ug/L	SW846 6010B	05/14-05/18/09	LA8DD1AG
		Dilution Factor: 1		Analysis Time...: 12:59		
Cadmium	204	10	ug/L	SW846 6010B	05/14-05/18/09	LA8DD1AH
		Dilution Factor: 1		Analysis Time...: 12:59		
Chromium	35.0	20	ug/L	SW846 6010B	05/14-05/18/09	LA8DD1AN
		Dilution Factor: 1		Analysis Time...: 12:59		
Lead	1660	100	ug/L	SW846 6010B	05/14-05/18/09	LA8DD1AJ
		Dilution Factor: 1		Analysis Time...: 12:59		
Selenium	ND	200	ug/L	SW846 6010B	05/14-05/18/09	LA8DD1AK
		Dilution Factor: 1		Analysis Time...: 12:59		
Zinc	9940 N	40	ug/L	SW846 6010B	05/14-05/18/09	LA8DD1AM
		Dilution Factor: 1		Analysis Time...: 12:59		
Prep Batch #...: 9135123						
Mercury	1.3 B	2	ug/L	SW846 7470A	05/15/09	LA8DD1AP
		Dilution Factor: 1		Analysis Time...: 14:49		

NOTE(S) :

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

N Spiked analyte recovery is outside stated control limits.

B Estimated result. Result is less than RL.

Bering Sea Environmental LLC

Client Sample ID: NASPW-2

TCLP GC/MS Volatiles

Lot-Sample #....: F9E010358-014 Work Order #....: LA8DP1AE Matrix.....: SOLID
 Date Sampled...: 04/30/09 09:00 Date Received...: 05/01/09
 Leach Date.....: 05/12/09 Prep Date.....: 05/14/09 Analysis Date...: 05/14/09
 Leach Batch #...: P913215 Prep Batch #....: 9137047 Analysis Time...: 20:53
 Dilution Factor: 1
 % Moisture.....: Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
1,1-Dichloroethene	ND	50	ug/L
Tetrachloroethene	ND	50	ug/L
Benzene	ND	50	ug/L
2-Butanone	ND	50	ug/L
Carbon tetrachloride	ND	50	ug/L
Chlorobenzene	ND	50	ug/L
Chloroform	ND	50	ug/L
1,2-Dichloroethane	ND	50	ug/L
Trichloroethene	ND	50	ug/L
Vinyl chloride	ND	100	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	106	(77 - 127)
Toluene-d8	115	(77 - 122)
4-Bromofluorobenzene	95	(73 - 119)
1,2-Dichloroethane-d4	101	(78 - 124)

NOTE (S) :

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Bering Sea Environmental LLC

Client Sample ID: NASPW-2

TCLP GC/MS Semivolatiles

Lot-Sample #...: F9E010358-014 Work Order #...: LA8DP1AQ Matrix.....: SOLID
 Date Sampled...: 04/30/09 09:00 Date Received...: 05/01/09
 Leach Date.....: 05/13/09 Prep Date.....: 05/14/09 Analysis Date...: 05/18/09
 Leach Batch #...: P913308 Prep Batch #...: 9138543 Analysis Time...: 22:14
 Dilution Factor: 1
 % Moisture.....: Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
1,4-Dichlorobenzene	ND	50	ug/L
2,4-Dinitrotoluene	ND	50	ug/L
Hexachlorobenzene	ND	50	ug/L
Hexachlorobutadiene	ND	50	ug/L
Hexachloroethane	ND	50	ug/L
2-Methylphenol	ND	50	ug/L
Nitrobenzene	ND	50	ug/L
Pentachlorophenol	ND	250	ug/L
Pyridine	ND	100	ug/L
2,4,5-Trichloro-phenol	ND	50	ug/L
2,4,6-Trichloro-phenol	ND	50	ug/L
3-Methylphenol & 4-Methylphenol	ND	100	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
2-Fluorophenol	41	(25 - 92)
Phenol-d5	28	(18 - 94)
Nitrobenzene-d5	69	(38 - 83)
2-Fluorobiphenyl	64	(30 - 90)
Terphenyl-d14	80	(30 - 104)
2,4,6-Tribromophenol	78	(29 - 111)

NOTE (S) :

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Bering Sea Environmental LLC

Client Sample ID: NASPW-2

TCLP GC Semivolatiles

Lot-Sample #....: F9E010358-014 Work Order #....: LA8DP1AT Matrix.....: SOLID
 Date Sampled...: 04/30/09 09:00 Date Received...: 05/01/09
 Leach Date.....: 05/13/09 Prep Date.....: 05/14/09 Analysis Date...: 05/20/09
 Leach Batch #...: P913308 Prep Batch #....: 9134385 Analysis Time...: 03:28
 Dilution Factor: 1
 % Moisture.....: Method.....: SW846 8081A

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Chlordane (technical)	ND	5.0	ug/L
gamma-BHC (Lindane)	ND	0.50	ug/L
Endrin	ND	0.50	ug/L
Heptachlor	ND	0.50	ug/L
Heptachlor epoxide	ND	0.50	ug/L
Methoxychlor	ND	1.0	ug/L
Toxaphene	ND	20	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Tetrachloro-m-xylene	89	(66 - 148)
Decachlorobiphenyl	94	(68 - 146)

NOTE(S) :

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Bering Sea Environmental LLC

Client Sample ID: NASPW-2

TCLP GC Semivolatiles

Lot-Sample #...: F9E010358-014 Work Order #...: LA8DP1AR Matrix.....: SOLID
 Date Sampled...: 04/30/09 09:00 Date Received...: 05/01/09
 Leach Date.....: 05/13/09 Prep Date.....: 05/14/09 Analysis Date...: 05/18/09
 Leach Batch #...: P913308 Prep Batch #...: 9134384 Analysis Time...: 23:14
 Dilution Factor: 1
 % Moisture.....: Method.....: SW846 8151A

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
2,4-D	ND	40	ug/L
2,4,5-TP (Silvex)	ND	10	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
2,4-Dichlorophenylacetic acid	79	(71 - 124)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Bering Sea Environmental LLC

Client Sample ID: NASPW-2

TCLP Metals

Lot-Sample #...: F9E010358-014

Matrix.....: SOLID

Date Sampled...: 04/30/09 09:00 Date Received...: 05/01/09

Leach Date.....: 05/13/09 Leach Batch #...: P913308

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 9134391						
Silver	ND	20	ug/L	SW846 6010B	05/14-05/18/09	LA8DP1AL
		Dilution Factor: 1		Analysis Time...: 13:25		
Arsenic	ND	200	ug/L	SW846 6010B	05/14-05/18/09	LA8DP1AF
		Dilution Factor: 1		Analysis Time...: 13:25		
Barium	361	200	ug/L	SW846 6010B	05/14-05/18/09	LA8DP1AG
		Dilution Factor: 1		Analysis Time...: 13:25		
Cadmium	190	10	ug/L	SW846 6010B	05/14-05/18/09	LA8DP1AH
		Dilution Factor: 1		Analysis Time...: 13:25		
Chromium	51.7	20	ug/L	SW846 6010B	05/14-05/18/09	LA8DP1AN
		Dilution Factor: 1		Analysis Time...: 13:25		
Lead	1420	100	ug/L	SW846 6010B	05/14-05/18/09	LA8DP1AJ
		Dilution Factor: 1		Analysis Time...: 13:25		
Selenium	ND	200	ug/L	SW846 6010B	05/14-05/18/09	LA8DP1AK
		Dilution Factor: 1		Analysis Time...: 13:25		
Zinc	6200 N	40	ug/L	SW846 6010B	05/14-05/18/09	LA8DP1AM
		Dilution Factor: 1		Analysis Time...: 13:25		
Prep Batch #...: 9135123						
Mercury	3.8	2	ug/L	SW846 7470A	05/15/09	LA8DP1AP
		Dilution Factor: 1		Analysis Time...: 14:57		

NOTE(S) :

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

N Spiked analyte recovery is outside stated control limits.

Bering Sea Environmental LLC

Client Sample ID: NASPW-3

TCLP GC/MS Volatiles

Lot-Sample #....: F9E010358-015 Work Order #....: LA8DT1AE Matrix.....: SOLID
 Date Sampled....: 04/30/09 09:00 Date Received...: 05/01/09
 Leach Date.....: 05/12/09 Prep Date.....: 05/14/09 Analysis Date...: 05/14/09
 Leach Batch #...: P913215 Prep Batch #....: 9137047 Analysis Time...: 21:17
 Dilution Factor: 1
 % Moisture.....: Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
1,1-Dichloroethene	ND	50	ug/L
Tetrachloroethene	ND	50	ug/L
Benzene	ND	50	ug/L
2-Butanone	ND	50	ug/L
Carbon tetrachloride	ND	50	ug/L
Chlorobenzene	ND	50	ug/L
Chloroform	ND	50	ug/L
1,2-Dichloroethane	ND	50	ug/L
Trichloroethene	ND	50	ug/L
Vinyl chloride	ND	100	ug/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	102	(77 - 127)
Toluene-d8	115	(77 - 122)
4-Bromofluorobenzene	91	(73 - 119)
1,2-Dichloroethane-d4	103	(78 - 124)

NOTE(S) :

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Bering Sea Environmental LLC

Client Sample ID: NASPW-3

TCLP GC/MS Semivolatiles

Lot-Sample #...: F9E010358-015 Work Order #...: LA8DT1AQ Matrix.....: SOLID
 Date Sampled...: 04/30/09 09:00 Date Received...: 05/01/09
 Leach Date.....: 05/13/09 Prep Date.....: 05/14/09 Analysis Date...: 05/18/09
 Leach Batch #...: P913308 Prep Batch #...: 9138543 Analysis Time...: 22:41
 Dilution Factor: 1
 % Moisture.....: Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,4-Dichlorobenzene	ND	50	ug/L
2,4-Dinitrotoluene	ND	50	ug/L
Hexachlorobenzene	ND	50	ug/L
Hexachlorobutadiene	ND	50	ug/L
Hexachloroethane	ND	50	ug/L
2-Methylphenol	ND	50	ug/L
Nitrobenzene	ND	50	ug/L
Pentachlorophenol	ND	250	ug/L
Pyridine	ND	100	ug/L
2,4,5-Trichloro-phenol	ND	50	ug/L
2,4,6-Trichloro-phenol	ND	50	ug/L
3-Methylphenol & 4-Methylphenol	ND	100	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	41	(25 - 92)
Phenol-d5	28	(18 - 94)
Nitrobenzene-d5	69	(38 - 83)
2-Fluorobiphenyl	65	(30 - 90)
Terphenyl-d14	77	(30 - 104)
2,4,6-Tribromophenol	73	(29 - 111)

NOTE(S) :

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Bering Sea Environmental LLC

Client Sample ID: NASPW-3

TCLP GC Semivolatiles

Lot-Sample #...: F9E010358-015 Work Order #...: LA8DT1AT Matrix.....: SOLID
 Date Sampled...: 04/30/09 09:00 Date Received...: 05/01/09
 Leach Date.....: 05/13/09 Prep Date.....: 05/14/09 Analysis Date...: 05/20/09
 Leach Batch #...: P913308 Prep Batch #...: 9134385 Analysis Time...: 04:29
 Dilution Factor: 1
 % Moisture.....: Method.....: SW846 8081A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Chlordane (technical)	ND	5.0	ug/L
gamma-BHC (Lindane)	ND	0.50	ug/L
Endrin	ND	0.50	ug/L
Heptachlor	ND	0.50	ug/L
Heptachlor epoxide	ND	0.50	ug/L
Methoxychlor	ND	1.0	ug/L
Toxaphene	ND	20	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Tetrachloro-m-xylene	97	(66 - 148)
Decachlorobiphenyl	111	(68 - 146)

NOTE (S) :

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Bering Sea Environmental LLC

Client Sample ID: NASPW-3

TCLP GC Semivolatiles

Lot-Sample #....: F9E010358-015 Work Order #....: LA8DT1AR Matrix.....: SOLID
 Date Sampled....: 04/30/09 09:00 Date Received...: 05/01/09
 Leach Date.....: 05/13/09 Prep Date.....: 05/14/09 Analysis Date...: 05/18/09
 Leach Batch #...: P913308 Prep Batch #....: 9134384 Analysis Time...: 23:48
 Dilution Factor: 1
 % Moisture.....: Method.....: SW846 8151A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
2,4-D	ND	40	ug/L
2,4,5-TP (Silvex)	ND	10	ug/L
	<u>PERCENT</u>	<u>RECOVERY</u>	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
2,4-Dichlorophenylacetic acid	79	(71 - 124)	

NOTE (S) :

 Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Bering Sea Environmental LLC

Client Sample ID: NASPW-3

TCLP Metals

Lot-Sample #...: F9E010358-015

Matrix.....: SOLID

Date Sampled...: 04/30/09 09:00 Date Received...: 05/01/09

Leach Date.....: 05/13/09

Leach Batch #...: P913308

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 9134391						
Silver	ND	20	ug/L	SW846 6010B	05/14-05/18/09	LA8DT1AL
		Dilution Factor: 1		Analysis Time...: 13:31		
Arsenic	ND	200	ug/L	SW846 6010B	05/14-05/18/09	LA8DT1AF
		Dilution Factor: 1		Analysis Time...: 13:31		
Barium	374	200	ug/L	SW846 6010B	05/14-05/18/09	LA8DT1AG
		Dilution Factor: 1		Analysis Time...: 13:31		
Cadmium	237	10	ug/L	SW846 6010B	05/14-05/18/09	LA8DT1AH
		Dilution Factor: 1		Analysis Time...: 13:31		
Chromium	41.2	20	ug/L	SW846 6010B	05/14-05/18/09	LA8DT1AN
		Dilution Factor: 1		Analysis Time...: 13:31		
Lead	1320	100	ug/L	SW846 6010B	05/14-05/18/09	LA8DT1AJ
		Dilution Factor: 1		Analysis Time...: 13:31		
Selenium	ND	200	ug/L	SW846 6010B	05/14-05/18/09	LA8DT1AK
		Dilution Factor: 1		Analysis Time...: 13:31		
Zinc	9040 N	40	ug/L	SW846 6010B	05/14-05/18/09	LA8DT1AM
		Dilution Factor: 1		Analysis Time...: 13:31		
Prep Batch #...: 9135123						
Mercury	2.5	2	ug/L	SW846 7470A	05/15/09	LA8DT1AP
		Dilution Factor: 1		Analysis Time...: 14:59		

NOTE(S) :

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

N Spiked analyte recovery is outside stated control limits.

METHOD BLANK REPORT

TCLP GC/MS Volatiles

Client Lot #...: F9E010358 Work Order #...: LCTT31AA Matrix.....: SOLID
 MB Lot-Sample #: F9E120000-323
 Leach Date.....: 05/12/09 Prep Date.....: 05/14/09 Analysis Date...: 05/14/09
 Leach Batch #...: P913215 Prep Batch #...: 9137047 Analysis Time...: 20:04
 Dilution Factor: 1

PARAMETER	RESULT	REPORTING		METHOD
		LIMIT	UNITS	
2-Butanone	ND	50	ug/L	SW846 8260B
Carbon tetrachloride	ND	50	ug/L	SW846 8260B
Chlorobenzene	ND	50	ug/L	SW846 8260B
Benzene	ND	50	ug/L	SW846 8260B
Chloroform	ND	50	ug/L	SW846 8260B
1,2-Dichloroethane	ND	50	ug/L	SW846 8260B
1,1-Dichloroethene	ND	50	ug/L	SW846 8260B
Tetrachloroethene	ND	50	ug/L	SW846 8260B
Trichloroethene	ND	50	ug/L	SW846 8260B
Vinyl chloride	ND	100	ug/L	SW846 8260B

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	102	(77 - 127)
Toluene-d8	92	(77 - 122)
4-Bromofluorobenzene	113	(73 - 119)
1,2-Dichloroethane-d4	98	(78 - 124)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: F9E010358
 MB Lot-Sample #: F9E180000-543

Work Order #...: LC9T31AA

Matrix.....: SOLID

Analysis Date...: 05/18/09
 Dilution Factor: 1

Prep Date.....: 05/14/09

Analysis Time...: 18:16

Prep Batch #...: 9138543

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
1,4-Dichlorobenzene	ND	50	ug/L	SW846 8270C
2,4-Dinitrotoluene	ND	50	ug/L	SW846 8270C
Hexachlorobenzene	ND	50	ug/L	SW846 8270C
Hexachlorobutadiene	ND	50	ug/L	SW846 8270C
Hexachloroethane	ND	50	ug/L	SW846 8270C
2-Methylphenol	ND	50	ug/L	SW846 8270C
Nitrobenzene	ND	50	ug/L	SW846 8270C
Pentachlorophenol	ND	250	ug/L	SW846 8270C
Pyridine	ND	100	ug/L	SW846 8270C
2,4,5-Trichloro-phenol	ND	50	ug/L	SW846 8270C
2,4,6-Trichloro-phenol	ND	50	ug/L	SW846 8270C
3-Methylphenol & 4-Methylphenol	ND	100	ug/L	SW846 8270C

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
2-Fluorophenol	27	(25 - 92)
Phenol-d5	16 *	(18 - 94)
Nitrobenzene-d5	70	(38 - 83)
2-Fluorobiphenyl	64	(30 - 90)
Terphenyl-d14	86	(30 - 104)
2,4,6-Tribromophenol	77	(29 - 111)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

* Surrogate recovery is outside stated control limits.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: F9E010358
 MB Lot-Sample #: F9E140000-385
 Analysis Date...: 05/20/09
 Dilution Factor: 1

Work Order #...: LC2PQ1AA
 Prep Date.....: 05/14/09
 Prep Batch #...: 9134385

Matrix.....: SOLID
 Analysis Time...: 01:03

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>
		<u>LIMIT</u>	<u>UNITS</u>	
gamma-BHC (Lindane)	ND	0.50	ug/L	SW846 8081A
Chlordane (technical)	ND	5.0	ug/L	SW846 8081A
Endrin	ND	0.50	ug/L	SW846 8081A
Heptachlor	ND	0.50	ug/L	SW846 8081A
Heptachlor epoxide	ND	0.50	ug/L	SW846 8081A
Methoxychlor	ND	1.0	ug/L	SW846 8081A
Toxaphene	ND	20	ug/L	SW846 8081A
	<u>PERCENT</u>	<u>RECOVERY</u>		
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>		
Tetrachloro-m-xylene	96	(66 - 148)		
Decachlorobiphenyl	110	(68 - 146)		

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: F9E010358
 MB Lot-Sample #: F9E140000-384
 Analysis Date...: 05/18/09
 Dilution Factor: 1

Work Order #...: LC2PJ1AA
 Prep Date.....: 05/14/09
 Prep Batch #...: 9134384

Matrix.....: SOLID
 Analysis Time...: 20:27

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>
		<u>LIMIT</u>	<u>UNITS</u>	
2,4-D	ND	40	ug/L	SW846 8151A
2,4,5-TP (Silvex)	ND	10	ug/L	SW846 8151A
<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>		
2,4-Dichlorophenylacetic acid	<u>RECOVERY</u>	<u>LIMITS</u>		
	66 *	(71 - 124)		

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

* Surrogate recovery is outside stated control limits.

METHOD BLANK REPORT

TCLP Metals

Client Lot #...: F9E010358

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: F9E130000-301 Prep Batch #... : 9134391						
Leach Date.....: 05/13/09 Leach Batch #... : P913308						
Arsenic	ND	200	ug/L	SW846 6010B	05/14-05/18/09	LCW9P1AA
		Dilution Factor: 1				
		Analysis Time...: 12:46				
Barium	2.7 B	200	ug/L	SW846 6010B	05/14-05/18/09	LCW9P1AC
		Dilution Factor: 1				
		Analysis Time...: 12:46				
Cadmium	ND	10	ug/L	SW846 6010B	05/14-05/18/09	LCW9P1AD
		Dilution Factor: 1				
		Analysis Time...: 12:46				
Chromium	ND	20	ug/L	SW846 6010B	05/14-05/18/09	LCW9P1AJ
		Dilution Factor: 1				
		Analysis Time...: 12:46				
Lead	ND	100	ug/L	SW846 6010B	05/14-05/18/09	LCW9P1AE
		Dilution Factor: 1				
		Analysis Time...: 12:46				
Selenium	ND	200	ug/L	SW846 6010B	05/14-05/18/09	LCW9P1AF
		Dilution Factor: 1				
		Analysis Time...: 12:46				
Silver	ND	20	ug/L	SW846 6010B	05/14-05/18/09	LCW9P1AG
		Dilution Factor: 1				
		Analysis Time...: 12:46				
Zinc	15.7 B	40	ug/L	SW846 6010B	05/14-05/18/09	LCW9P1AH
		Dilution Factor: 1				
		Analysis Time...: 12:46				
MB Lot-Sample #: F9E130000-301 Prep Batch #... : 9135123						
Leach Date.....: 05/13/09 Leach Batch #... : P913308						
Mercury	ND	2	ug/L	SW846 7470A	05/15/09	LCW9P1AK
		Dilution Factor: 1				
		Analysis Time...: 14:44				

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: F9E010358 Work Order #...: LC8FX1AA Matrix.....: SOLID
 LCS Lot-Sample#: F9E170000-047
 Prep Date.....: 05/14/09 Analysis Date...: 05/14/09
 Prep Batch #...: 9137047 Analysis Time...: 22:39
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
Vinyl chloride	148 a	(59 - 132)	SW846 8260B
1,1-Dichloroethene	107	(64 - 135)	SW846 8260B
2-Butanone	83	(56 - 132)	SW846 8260B
Chloroform	110	(83 - 116)	SW846 8260B
Carbon tetrachloride	109	(78 - 125)	SW846 8260B
1,2-Dichloroethane	96	(78 - 123)	SW846 8260B
Benzene	99	(77 - 124)	SW846 8260B
Trichloroethene	100	(73 - 123)	SW846 8260B
Tetrachloroethene	77	(70 - 111)	SW846 8260B
Chlorobenzene	102	(83 - 114)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	100	(74 - 130)
Toluene-d8	105	(78 - 124)
4-Bromofluorobenzene	104	(75 - 119)
1,2-Dichloroethane-d4	94	(75 - 126)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: F9E010358 Work Order #...: LC9T31AC Matrix.....: SOLID
 LCS Lot-Sample#: F9E180000-543
 Prep Date.....: 05/14/09 Analysis Date...: 05/18/09
 Prep Batch #...: 9138543 Analysis Time...: 18:42
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
Pyridine	39	(10 - 77)	SW846 8270C
1,4-Dichlorobenzene	58	(41 - 73)	SW846 8270C
2-Methylphenol	57	(40 - 84)	SW846 8270C
3-Methylphenol & 4-Methylphenol	52	(40 - 85)	SW846 8270C
Hexachloroethane	58	(41 - 72)	SW846 8270C
Nitrobenzene	66	(43 - 80)	SW846 8270C
Hexachlorobutadiene	61	(45 - 69)	SW846 8270C
2,4,5-Trichloro- phenol	67	(43 - 83)	SW846 8270C
2,4,6-Trichloro- phenol	66	(42 - 82)	SW846 8270C
2,4-Dinitrotoluene	70	(46 - 85)	SW846 8270C
Hexachlorobenzene	66	(42 - 91)	SW846 8270C
Pentachlorophenol	57	(28 - 80)	SW846 8270C

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
2-Fluorophenol	44	(36 - 80)
Phenol-d5	30 *	(37 - 77)
Nitrobenzene-d5	70	(42 - 80)
2-Fluorobiphenyl	67	(48 - 73)
Terphenyl-d14	80	(41 - 89)
2,4,6-Tribromophenol	77	(39 - 97)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

* Surrogate recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: F9E010358 Work Order #...: LC2PQ1AC Matrix.....: SOLID
 LCS Lot-Sample#: F9E140000-385
 Prep Date.....: 05/14/09 Analysis Date...: 05/20/09
 Prep Batch #...: 9134385 Analysis Time...: 01:24
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
gamma-BHC (Lindane)	106	(78 - 117)	SW846 8081A
Heptachlor	98	(75 - 131)	SW846 8081A
Heptachlor epoxide	106	(80 - 118)	SW846 8081A
Endrin	107	(75 - 125)	SW846 8081A
Methoxychlor	107	(70 - 123)	SW846 8081A

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Tetrachloro-m-xylene	99	(71 - 132)
Decachlorobiphenyl	111	(77 - 129)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #....: F9E010358 Work Order #....: LC2PJ1AC Matrix.....: SOLID
 LCS Lot-Sample#: F9E140000-384
 Prep Date.....: 05/14/09 Analysis Date...: 05/18/09
 Prep Batch #....: 9134384 Analysis Time...: 21:00
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
2,4-D	88	(70 - 120)	SW846 8151A
2,4,5-TP (Silvex)	83	(65 - 135)	SW846 8151A

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
2,4-Dichlorophenylacetic acid	80	(75 - 120)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TCLP Metals

Client Lot #...: F9E010358

Matrix.....: SOLID

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
LCS Lot-Sample#: F9E140000-391 Prep Batch #... : 9134391					
Arsenic	109	(80 - 120)	SW846 6010B	05/14-05/18/09	LC2P61AA
			Dilution Factor: 1	Analysis Time...: 12:53	
Barium	113	(80 - 120)	SW846 6010B	05/14-05/18/09	LC2P61AC
			Dilution Factor: 1	Analysis Time...: 12:53	
Cadmium	106	(80 - 120)	SW846 6010B	05/14-05/18/09	LC2P61AD
			Dilution Factor: 1	Analysis Time...: 12:53	
Lead	102	(80 - 120)	SW846 6010B	05/14-05/18/09	LC2P61AE
			Dilution Factor: 1	Analysis Time...: 12:53	
Selenium	110	(80 - 120)	SW846 6010B	05/14-05/18/09	LC2P61AF
			Dilution Factor: 1	Analysis Time...: 12:53	
Silver	98	(80 - 120)	SW846 6010B	05/14-05/18/09	LC2P61AG
			Dilution Factor: 1	Analysis Time...: 12:53	
Zinc	117	(80 - 120)	SW846 6010B	05/14-05/18/09	LC2P61AH
			Dilution Factor: 1	Analysis Time...: 12:53	
Chromium	102	(80 - 120)	SW846 6010B	05/14-05/18/09	LC2P61AJ
			Dilution Factor: 1	Analysis Time...: 12:53	
LCS Lot-Sample#: F9E150000-123 Prep Batch #... : 9135123					
Mercury	96	(80 - 120)	SW846 7470A	05/15/09	LC4G81AA
			Dilution Factor: 1	Analysis Time...: 14:47	

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP GC/MS Volatiles

Client Lot #...: F9E010358 Work Order #...: LA8DT1AU-MS Matrix.....: SOLID
 MS Lot-Sample #: F9E010358-015 LA8DT1AV-MSD
 Date Sampled...: 04/30/09 09:00 Date Received...: 05/01/09
 Leach Date.....: 05/12/09 Prep Date.....: 05/14/09 Analysis Date...: 05/14/09
 Leach Batch #...: P913215 Prep Batch #...: 9137047 Analysis Time...: 23:04
 Dilution Factor: 1

PARAMETER	PERCENT	RECOVERY	RPD		METHOD
	RECOVERY	LIMITS	RPD	LIMITS	
2-Butanone	75	(63 - 124)			SW846 8260B
	99 p	(63 - 124)	27	(0-20)	SW846 8260B
Chloroform	91	(81 - 116)			SW846 8260B
	129 a,p	(81 - 116)	34	(0-20)	SW846 8260B
Carbon tetrachloride	90	(78 - 122)			SW846 8260B
	127 a,p	(78 - 122)	34	(0-20)	SW846 8260B
1,2-Dichloroethane	95	(79 - 124)			SW846 8260B
	94	(79 - 124)	0.42	(0-20)	SW846 8260B
Benzene	86	(78 - 119)			SW846 8260B
	97	(78 - 119)	12	(0-20)	SW846 8260B
Trichloroethene	86	(76 - 116)			SW846 8260B
	96	(76 - 116)	11	(0-20)	SW846 8260B
Tetrachloroethene	64	(64 - 109)			SW846 8260B
	67	(64 - 109)	3.9	(0-20)	SW846 8260B
Chlorobenzene	98	(82 - 112)			SW846 8260B
	98	(82 - 112)	0.02	(0-20)	SW846 8260B
Vinyl chloride	113	(61 - 123)			SW846 8260B
	148 a,p	(61 - 123)	27	(0-20)	SW846 8260B
1,1-Dichloroethene	89	(65 - 130)			SW846 8260B
	128 p	(65 - 130)	36	(0-20)	SW846 8260B

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	86	(77 - 127)
	127	(77 - 127)
Toluene-d8	87	(77 - 122)
	104	(77 - 122)
4-Bromofluorobenzene	94	(73 - 119)
	88	(73 - 119)
1,2-Dichloroethane-d4	89	(78 - 124)
	92	(78 - 124)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP GC/MS Semivolatiles

Client Lot #...: F9E010358 Work Order #...: LA8DD1CK-MS Matrix.....: SOLID
 MS Lot-Sample #: F9E010358-013 LA8DD1CL-MSD
 Date Sampled...: 04/30/09 09:00 Date Received...: 05/01/09
 Leach Date.....: 05/13/09 Prep Date.....: 05/14/09 Analysis Date...: 05/18/09
 Leach Batch #...: P913308 Prep Batch #...: 9138543 Analysis Time...: 21:21
 Dilution Factor: 1

PARAMETER	PERCENT	RECOVERY	RPD		METHOD
	RECOVERY	LIMITS	RPD	LIMITS	
Pyridine	8.8 a	(10 - 82)			SW846 8270C
	2.9 a,p	(10 - 82)	102	(0-20)	SW846 8270C
1,4-Dichlorobenzene	64	(34 - 79)			SW846 8270C
	59	(34 - 79)	9.3	(0-20)	SW846 8270C
2-Methylphenol	61	(35 - 89)			SW846 8270C
	58	(35 - 89)	4.7	(0-20)	SW846 8270C
3-Methylphenol & 4-Methylphenol	55	(29 - 96)			SW846 8270C
	52	(29 - 96)	5.4	(0-20)	SW846 8270C
Hexachloroethane	64	(31 - 80)			SW846 8270C
	58	(31 - 80)	10	(0-20)	SW846 8270C
Nitrobenzene	73	(38 - 85)			SW846 8270C
	67	(38 - 85)	9.0	(0-20)	SW846 8270C
Hexachlorobutadiene	66	(34 - 79)			SW846 8270C
	60	(34 - 79)	10	(0-20)	SW846 8270C
2,4,5-Trichloro- phenol	72	(37 - 91)			SW846 8270C
	65	(37 - 91)	11	(0-20)	SW846 8270C
2,4,6-Trichloro- phenol	71	(36 - 90)			SW846 8270C
	64	(36 - 90)	10	(0-20)	SW846 8270C
2,4-Dinitrotoluene	75	(37 - 93)			SW846 8270C
	67	(37 - 93)	12	(0-20)	SW846 8270C
Hexachlorobenzene	70	(35 - 102)			SW846 8270C
	61	(35 - 102)	13	(0-20)	SW846 8270C
Pentachlorophenol	61	(24 - 82)			SW846 8270C
	52	(24 - 82)	15	(0-20)	SW846 8270C

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
2-Fluorophenol	48	(25 - 92)
	45	(25 - 92)
Phenol-d5	33	(18 - 94)
	31	(18 - 94)
Nitrobenzene-d5	77	(38 - 83)
	69	(38 - 83)

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP GC/MS Semivolatiles

Client Lot #...: F9E010358 Work Order #...: LA8DD1CK-MS Matrix.....: SOLID
 MS Lot-Sample #: F9E010358-013 LA8DD1CL-MSD

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
2-Fluorobiphenyl	74	(30 - 90)
	65	(30 - 90)
Terphenyl-d14	86	(30 - 104)
	73	(30 - 104)
2,4,6-Tribromophenol	83	(29 - 111)
	71	(29 - 111)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP GC Semivolatiles

Client Lot #...: F9E010358 Work Order #...: LA8DP1AU-MS Matrix.....: SOLID
 MS Lot-Sample #: F9E010358-014 LA8DP1AV-MSD
 Date Sampled...: 04/30/09 09:00 Date Received...: 05/01/09
 Leach Date.....: 05/13/09 Prep Date.....: 05/14/09 Analysis Date...: 05/20/09
 Leach Batch #...: P913308 Prep Batch #...: 9134385 Analysis Time...: 03:48
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
gamma-BHC (Lindane)	113	(68 - 131)			SW846 8081A
	99	(68 - 131)	13	(0-20)	SW846 8081A
Heptachlor	108	(56 - 193)			SW846 8081A
	96	(56 - 193)	12	(0-20)	SW846 8081A
Heptachlor epoxide	109	(54 - 144)			SW846 8081A
	102	(54 - 144)	7.3	(0-20)	SW846 8081A
Endrin	111	(78 - 129)			SW846 8081A
	106	(78 - 129)	4.0	(0-20)	SW846 8081A
Methoxychlor	109	(65 - 138)			SW846 8081A
	96	(65 - 138)	12	(0-20)	SW846 8081A

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Tetrachloro-m-xylene	98	(66 - 148)
	82	(66 - 148)
Decachlorobiphenyl	104	(68 - 146)
	101	(68 - 146)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP GC Semivolatiles

Client Lot #...: F9E010358 Work Order #...: LA8DD1AW-MS Matrix.....: SOLID
 MS Lot-Sample #: F9E010358-013 LA8DD1AX-MSD
 Date Sampled...: 04/30/09 09:00 Date Received...: 05/01/09
 Leach Date.....: 05/13/09 Prep Date.....: 05/14/09 Analysis Date...: 05/18/09
 Leach Batch #...: P913308 Prep Batch #...: 9134384 Analysis Time...: 22:08
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
2,4-D	98	(65 - 122)			SW846 8151A
	94	(65 - 122)	4.1	(0-20)	SW846 8151A
2,4,5-TP (Silvex)	94	(64 - 139)			SW846 8151A
	92	(64 - 139)	2.1	(0-20)	SW846 8151A

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
2,4-Dichlorophenylacetic acid	86	(71 - 124)
	84	(71 - 124)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP Metals

Client Lot #...: F9E010358

Matrix.....: SOLID

Date Sampled...: 04/30/09 09:00 Date Received...: 05/01/09

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD RPD	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: F9E010358-013 Prep Batch #...: 9134391							
Leach Date.....: 05/13/09 Leach Batch #...: P913308							
Arsenic	98	(75 - 125)			SW846 6010B	05/14-05/18/09	LA8DD1A0
	103	(75 - 125)	5.4	(0-20)	SW846 6010B	05/14-05/18/09	LA8DD1A1
	Dilution Factor: 1						
	Analysis Time...: 13:12						
Barium	103	(75 - 125)			SW846 6010B	05/14-05/18/09	LA8DD1A2
	112	(75 - 125)	7.1	(0-20)	SW846 6010B	05/14-05/18/09	LA8DD1A3
	Dilution Factor: 1						
	Analysis Time...: 13:12						
Cadmium	95	(75 - 125)			SW846 6010B	05/14-05/18/09	LA8DD1A4
	100	(75 - 125)	5.3	(0-20)	SW846 6010B	05/14-05/18/09	LA8DD1A5
	Dilution Factor: 1						
	Analysis Time...: 13:12						
Chromium	93	(75 - 125)			SW846 6010B	05/14-05/18/09	LA8DD1CF
	99	(75 - 125)	6.1	(0-20)	SW846 6010B	05/14-05/18/09	LA8DD1CG
	Dilution Factor: 1						
	Analysis Time...: 13:12						
Lead	89	(75 - 125)			SW846 6010B	05/14-05/18/09	LA8DD1A6
	98	(75 - 125)	5.7	(0-20)	SW846 6010B	05/14-05/18/09	LA8DD1A7
	Dilution Factor: 1						
	Analysis Time...: 13:12						
Selenium	98	(75 - 125)			SW846 6010B	05/14-05/18/09	LA8DD1A8
	104	(75 - 125)	5.3	(0-20)	SW846 6010B	05/14-05/18/09	LA8DD1A9
	Dilution Factor: 1						
	Analysis Time...: 13:12						
Silver	101	(75 - 125)			SW846 6010B	05/14-05/18/09	LA8DD1CA
	107	(75 - 125)	6.2	(0-20)	SW846 6010B	05/14-05/18/09	LA8DD1CC
	Dilution Factor: 1						
	Analysis Time...: 13:12						
Zinc	64 N	(75 - 125)			SW846 6010B	05/14-05/18/09	LA8DD1CD
	90	(75 - 125)	5.3	(0-30)	SW846 6010B	05/14-05/18/09	LA8DD1CE
	Dilution Factor: 1						
	Analysis Time...: 13:12						

MS Lot-Sample #: F9E010358-013 Prep Batch #...: 9135123

Leach Date.....: 05/13/09 Leach Batch #...: P913308

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP Metals

Client Lot #...: F9E010358

Matrix.....: SOLID

Date Sampled...: 04/30/09 09:00 Date Received...: 05/01/09

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Mercury	89	(70 - 130)			SW846 7470A	05/15/09	LA8DD1CH
	88	(70 - 130)	1.3	(0-20)	SW846 7470A	05/15/09	LA8DD1CJ

Dilution Factor: 1
Analysis Time...: 14:51

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

Bering Sea Environmental LLC

Client Sample ID: NASP-1

Radiochemistry

Lab Sample ID: F9E010358-001
 Work Order: LA8A3
 Matrix: SOLID

Date Collected: 04/30/09 0830
 Date Received: 05/01/09 1010

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
Gamma Ra-226 & Hits By DOE GA-010R MOD						GA-01-R MOD		
Actinium 228	0.04	U	0.28	0.50	05/05/09	05/26/09	9125307	
Americium 241	0.01	U	0.17	0.29	05/05/09	05/26/09	9125307	
Bismuth 212	0.30	U	0.52	0.87	05/05/09	05/26/09	9125307	
Bismuth 214	6.08		0.59	0.23	05/05/09	05/26/09	9125307	
Cesium 137	0.68		0.13	0.09	05/05/09	05/26/09	9125307	
Cobalt 60	-0.02	U	1.5	0.1	05/05/09	05/26/09	9125307	
Europium 152	0.15	U	0.16	0.26	05/05/09	05/26/09	9125307	
Europium 154	0.0	U	0.69	1.2	05/05/09	05/26/09	9125307	
Lead 210	5.1		2.6	3.3	05/05/09	05/26/09	9125307	
Lead 212	0.44		0.16	0.18	05/05/09	05/26/09	9125307	
Lead 214	6.62		0.57	0.20	05/05/09	05/26/09	9125307	
Potassium 40	0.50	U	0.85	1.5	05/05/09	05/26/09	9125307	
Protactinium 234	-0.05	U	0.23	0.38	05/05/09	05/26/09	9125307	
Radium (226)	6.08		0.59	0.23	05/05/09	05/26/09	9125307	
Thallium 208	0.037	U	0.074	0.13	05/05/09	05/26/09	9125307	
Thorium 232	0.04	U	0.28	0.50	05/05/09	05/26/09	9125307	
Thorium 234	0.5	U	1.8	3.1	05/05/09	05/26/09	9125307	
Uranium 235	0.09	U	0.31	0.54	05/05/09	05/26/09	9125307	

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC

Bering Sea Environmental LLC
Client Sample ID: NASP-1 DUP

Radiochemistry

Lab Sample ID: F9E010358-001X
 Work Order: LA8A3
 Matrix: SOLID

Date Collected: 04/30/09 0830
 Date Received: 05/01/09 1010

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g	GA-01-R MOD			
Actinium 228	0.14	U	0.28	0.49	05/05/09	05/26/09	9125307	
Americium 241	-0.0007	U	0.13	0.23	05/05/09	05/26/09	9125307	
Bismuth 212	0.09	U	0.52	0.94	05/05/09	05/26/09	9125307	
Bismuth 214	6.35		0.61	0.20	05/05/09	05/26/09	9125307	
Cesium 137	0.68		0.14	0.09	05/05/09	05/26/09	9125307	
Cobalt 60	0.0	U	0.076	0.15	05/05/09	05/26/09	9125307	
Europium 152	-0.05	U	0.24	0.40	05/05/09	05/26/09	9125307	
Europium 154	0.12	U	0.56	1.0	05/05/09	05/26/09	9125307	
Lead 210	4.3		2.6	3.5	05/05/09	05/26/09	9125307	
Lead 212	0.37		0.15	0.17	05/05/09	05/26/09	9125307	
Lead 214	6.75		0.61	0.30	05/05/09	05/26/09	9125307	
Potassium 40	-0.25	U	9.97	2.2	05/05/09	05/26/09	9125307	
Protactinium 234	-0.06	U	0.27	0.45	05/05/09	05/26/09	9125307	
Radium (226)	6.35		0.61	0.20	05/05/09	05/26/09	9125307	
Thallium 208	0.073	U	0.075	0.13	05/05/09	05/26/09	9125307	
Thorium 232	0.14	U	0.28	0.49	05/05/09	05/26/09	9125307	
Thorium 234	0.3	U	2.0	3.5	05/05/09	05/26/09	9125307	
Uranium 235	-0.03	U	22	0.7	05/05/09	05/26/09	9125307	

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC

Bering Sea Environmental LLC

Client Sample ID: NASP-2

Radiochemistry

Lab Sample ID: F9E010358-002
 Work Order: LA8CK
 Matrix: SOLID

Date Collected: 04/30/09 0835
 Date Received: 05/01/09 1010

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g	GA-01-R MOD			
Actinium 228	0.07	U	0.19	0.34	05/05/09	05/26/09	9125307	
Americium 241	0.009	U	0.11	0.19	05/05/09	05/26/09	9125307	
Bismuth 212	0.06	U	0.30	0.55	05/05/09	05/26/09	9125307	
Bismuth 214	2.57		0.33	0.16	05/05/09	05/26/09	9125307	
Cesium 137	0.193		0.083	0.077	05/05/09	05/26/09	9125307	
Cobalt 60	0.027	U	0.056	0.098	05/05/09	05/26/09	9125307	
Europium 152	-0.01	U	0.11	0.20	05/05/09	05/26/09	9125307	
Europium 154	-0.09	U	0.44	0.80	05/05/09	05/26/09	9125307	
Lead 210	2.1	U	1.5	2.3	05/05/09	05/26/09	9125307	
Lead 212	0.27		0.10	0.12	05/05/09	05/26/09	9125307	
Lead 214	2.70		0.27	0.14	05/05/09	05/26/09	9125307	
Potassium 40	-0.1	U	5.7	1.8	05/05/09	05/26/09	9125307	
Protactinium 234	-0.05	U	0.16	0.27	05/05/09	05/26/09	9125307	
Radium (226)	2.57		0.33	0.16	05/05/09	05/26/09	9125307	
Thallium 208	0.051	U	0.057	0.097	05/05/09	05/26/09	9125307	
Thorium 232	0.07	U	0.19	0.34	05/05/09	05/26/09	9125307	
Thorium 234	0.3	U	1.2	2.0	05/05/09	05/26/09	9125307	
Uranium 235	0.11	U	0.25	0.42	05/05/09	05/26/09	9125307	

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC

Bering Sea Environmental LLC

Client Sample ID: NASP-3

Radiochemistry

Lab Sample ID: F9E010358-003
 Work Order: LA8CL
 Matrix: SOLID

Date Collected: 04/30/09 0840
 Date Received: 05/01/09 1010

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g	GA-01-R MOD			
Actinium 228	-0.06	U	2.3	0.4	05/05/09	05/26/09	9125307	
Americium 241	-0.02	U	1.5	0.2	05/05/09	05/26/09	9125307	
Bismuth 212	0.20	U	0.45	0.78	05/05/09	05/26/09	9125307	
Bismuth 214	4.03		0.42	0.13	05/05/09	05/26/09	9125307	
Cesium 137	0.179		0.071	0.077	05/05/09	05/26/09	9125307	
Cobalt 60	-0.02	U	0.80	0.07	05/05/09	05/26/09	9125307	
Europium 152	0.05	U	0.16	0.27	05/05/09	05/26/09	9125307	
Europium 154	-0.12	U	0.51	0.92	05/05/09	05/26/09	9125307	
Lead 210	3.1		1.7	2.4	05/05/09	05/26/09	9125307	
Lead 212	0.37		0.12	0.13	05/05/09	05/26/09	9125307	
Lead 214	3.48		0.37	0.19	05/05/09	05/26/09	9125307	
Potassium 40	0.28	U	0.61	1.2	05/05/09	05/26/09	9125307	
Protactinium 234	-0.01	U	0.19	0.33	05/05/09	05/26/09	9125307	
Radium (226)	4.03		0.42	0.13	05/05/09	05/26/09	9125307	
Thallium 208	0.008	U	0.061	0.11	05/05/09	05/26/09	9125307	
Thorium 232	-0.06	U	2.3	0.4	05/05/09	05/26/09	9125307	
Thorium 234	0.3	U	1.5	2.6	05/05/09	05/26/09	9125307	
Uranium 235	0.02	U	0.29	0.50	05/05/09	05/26/09	9125307	

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC

Bering Sea Environmental LLC

Client Sample ID: NASP-4

Radiochemistry

Lab Sample ID: F9E010358-004
 Work Order: LA8CM
 Matrix: SOLID

Date Collected: 04/30/09 0845
 Date Received: 05/01/09 1010

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		GA-01-R MOD		
Actinium 228	0.35	U	0.40	0.65	05/05/09	05/26/09	9125307	
Americium 241	0.14	U	0.25	0.42	05/05/09	05/26/09	9125307	
Bismuth 212	0.55	U	0.61	0.99	05/05/09	05/26/09	9125307	
Bismuth 214	13.8		1.0	0.3	05/05/09	05/26/09	9125307	
Cesium 137	0.46		0.17	0.16	05/05/09	05/26/09	9125307	
Cobalt 60	0.0	U	0.16	0.28	05/05/09	05/26/09	9125307	
Europium 152	0.59		0.27	0.51	05/05/09	05/26/09	9125307	
Europium 154	-0.006	U	0.67	1.2	05/05/09	05/26/09	9125307	
Lead 210	7.7		3.6	4.5	05/05/09	05/26/09	9125307	
Lead 212	0.35		0.19	0.23	05/05/09	05/26/09	9125307	
Lead 214	14.4		1.0	0.3	05/05/09	05/26/09	9125307	
Potassium 40	-0.1	U	4.3	1.3	05/05/09	05/26/09	9125307	
Protactinium 234	0.02	U	0.32	0.53	05/05/09	05/26/09	9125307	
Radium (226)	13.8		1.0	0.3	05/05/09	05/26/09	9125307	
Thallium 208	0.11	U	0.10	0.17	05/05/09	05/26/09	9125307	
Thorium 232	0.35	U	0.40	0.65	05/05/09	05/26/09	9125307	
Thorium 234	1.2	U	2.4	3.9	05/05/09	05/26/09	9125307	
Uranium 235	-0.30	U	0.76	0.97	05/05/09	05/26/09	9125307	

NOTE (S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC

Bering Sea Environmental LLC

Client Sample ID: NASP-5

Radiochemistry

Lab Sample ID: F9E010358-005
 Work Order: LA8CP
 Matrix: SOLID

Date Collected: 04/30/09 0850
 Date Received: 05/01/09 1010

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		GA-01-R MOD		
Actinium 228	0.57		0.17	0.29	05/05/09	05/26/09	9125307	
Americium 241	0.07	U	0.13	0.22	05/05/09	05/26/09	9125307	
Bismuth 212	0.15	U	0.36	0.61	05/05/09	05/26/09	9125307	
Bismuth 214	4.92		0.43	0.13	05/05/09	05/26/09	9125307	
Cesium 137	0.272		0.080	0.069	05/05/09	05/26/09	9125307	
Cobalt 60	-0.021	U	0.059	0.10	05/05/09	05/26/09	9125307	
Europium 152	-0.0008	U	0.16	0.27	05/05/09	05/26/09	9125307	
Europium 154	-0.06	U	0.39	0.69	05/05/09	05/26/09	9125307	
Lead 210	3.8		2.2	2.8	05/05/09	05/26/09	9125307	
Lead 212	0.53		0.16	0.17	05/05/09	05/26/09	9125307	
Lead 214	5.06		0.45	0.20	05/05/09	05/26/09	9125307	
Potassium 40	0.43	U	0.64	1.1	05/05/09	05/26/09	9125307	
Protactinium 234	-0.006	U	0.21	0.35	05/05/09	05/26/09	9125307	
Radium (226)	4.92		0.43	0.13	05/05/09	05/26/09	9125307	
Thallium 208	0.150		0.063	0.090	05/05/09	05/26/09	9125307	
Thorium 232	0.57		0.17	0.29	05/05/09	05/26/09	9125307	
Thorium 234	0.8	U	1.4	2.4	05/05/09	05/26/09	9125307	
Uranium 235	-0.13	U	0.73	0.61	05/05/09	05/26/09	9125307	

NOTE (S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC

Bering Sea Environmental LLC

Client Sample ID: NASP-6

Radiochemistry

Lab Sample ID: F9E010358-006
 Work Order: LA8CQ
 Matrix: SOLID

Date Collected: 04/30/09 0905
 Date Received: 05/01/09 1010

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		GA-01-R MOD		
Actinium 228	0.20	U	0.48	0.81	05/05/09	05/26/09	9125307	
Americium 241	0.25	U	0.38	0.63	05/05/09	05/26/09	9125307	
Bismuth 212	2.3		1.1	1.6	05/05/09	05/26/09	9125307	
Bismuth 214	25.6		1.8	0.4	05/05/09	05/26/09	9125307	
Cesium 137	0.22	U	0.15	0.24	05/05/09	05/26/09	9125307	
Cobalt 60	0.05	U	0.13	0.23	05/05/09	05/26/09	9125307	
Europium 152	1.36		0.35	0.70	05/05/09	05/26/09	9125307	
Europium 154	0.6	U	1.1	1.8	05/05/09	05/26/09	9125307	
Lead 210	9.4		4.5	6.0	05/05/09	05/26/09	9125307	
Lead 212	-0.05	U	0.63	0.44	05/05/09	05/26/09	9125307	
Lead 214	26.9		1.8	0.5	05/05/09	05/26/09	9125307	
Potassium 40	-0.5	U	4.5	2.8	05/05/09	05/26/09	9125307	
Protactinium 234	0.02	U	0.44	0.74	05/05/09	05/26/09	9125307	
Radium (226)	25.6		1.8	0.4	05/05/09	05/26/09	9125307	
Thallium 208	-0.03	U	0.84	0.24	05/05/09	05/26/09	9125307	
Thorium 232	0.20	U	0.48	0.81	05/05/09	05/26/09	9125307	
Thorium 234	-0.5	U	99	6	05/05/09	05/26/09	9125307	
Uranium 235	-0.25	U	0.89	1.2	05/05/09	05/26/09	9125307	

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC

Bering Sea Environmental LLC

Client Sample ID: NASP-7

Radiochemistry

Lab Sample ID: F9E010358-007
 Work Order: LA8CT
 Matrix: SOLID

Date Collected: 04/30/09 0915
 Date Received: 05/01/09 1010

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g	GA-01-R MOD			
Actinium 228	0.32		0.19	0.26	05/05/09	05/26/09	9125307	
Americium 241	0.04	U	0.13	0.22	05/05/09	05/26/09	9125307	
Bismuth 212	0.17	U	0.37	0.65	05/05/09	05/26/09	9125307	
Bismuth 214	3.76		0.41	0.18	05/05/09	05/26/09	9125307	
Cesium 137	1.20		0.16	0.08	05/05/09	05/26/09	9125307	
Cobalt 60	0.007	U	0.050	0.093	05/05/09	05/26/09	9125307	
Europium 152	0.006	U	0.15	0.25	05/05/09	05/26/09	9125307	
Europium 154	-0.17	U	0.46	0.80	05/05/09	05/26/09	9125307	
Lead 210	3.4		1.6	2.1	05/05/09	05/26/09	9125307	
Lead 212	0.40		0.14	0.15	05/05/09	05/26/09	9125307	
Lead 214	3.80		0.37	0.20	05/05/09	05/26/09	9125307	
Potassium 40	-0.2	U	8.7	1.8	05/05/09	05/26/09	9125307	
Protactinium 234	0.01	U	0.19	0.33	05/05/09	05/26/09	9125307	
Radium (226)	3.76		0.41	0.18	05/05/09	05/26/09	9125307	
Thallium 208	0.163		0.067	0.065	05/05/09	05/26/09	9125307	
Thorium 232	0.32		0.19	0.26	05/05/09	05/26/09	9125307	
Thorium 234	0.3	U	1.4	2.4	05/05/09	05/26/09	9125307	
Uranium 235	-0.06	U	0.97	0.54	05/05/09	05/26/09	9125307	

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC

Bering Sea Environmental LLC

Client Sample ID: NASP-8

Radiochemistry

Lab Sample ID: F9E010358-008
 Work Order: LA8CV
 Matrix: SOLID

Date Collected: 04/30/09 0910
 Date Received: 05/01/09 1010

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
Gamma Ra-226 & Hits By DOE GA-010R MOD					pCi/g			
GA-01-R MOD								
Actinium 228	-0.06	U	0.96	1.6	05/05/09	05/26/09	9125307	
Americium 241	0.21	U	0.76	1.3	05/05/09	05/26/09	9125307	
Bismuth 212	11.1		2.0	3.2	05/05/09	05/26/09	9125307	
Bismuth 214	138		8.3	0.8	05/05/09	05/26/09	9125307	
Cesium 137	0.001	U	0.27	0.46	05/05/09	05/26/09	9125307	
Cobalt 60	0.06	U	0.24	0.41	05/05/09	05/26/09	9125307	
Europium 152	6.73		0.90	1.4	05/05/09	05/26/09	9125307	
Europium 154	-0.6	U	2.2	3.6	05/05/09	05/26/09	9125307	
Lead 210	58		11	12	05/05/09	05/26/09	9125307	
Lead 212	-0.2	U	2.2	1.9	05/05/09	05/26/09	9125307	
Lead 214	141		8.4	1.0	05/05/09	05/26/09	9125307	
Potassium 40	-0.08	U	2.6	4.4	05/05/09	05/26/09	9125307	
Protactinium 234	0.5	U	1.1	1.7	05/05/09	05/26/09	9125307	
Radium (226)	138		8.3	0.8	05/05/09	05/26/09	9125307	
Thallium 208	0.02	U	0.26	0.44	05/05/09	05/26/09	9125307	
Thorium 232	-0.06	U	0.96	1.6	05/05/09	05/26/09	9125307	
Thorium 234	1.5	U	7.3	12	05/05/09	05/26/09	9125307	
Uranium 235	0.2	U	1.8	3.0	05/05/09	05/26/09	9125307	

NOTE (S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC

Bering Sea Environmental LLC

Client Sample ID: NASPBG-1

Radiochemistry

Lab Sample ID: F9E010358-009
 Work Order: LA8CW
 Matrix: SOLID

Date Collected: 04/30/09 0940
 Date Received: 05/01/09 1010

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		GA-01-R MOD		
Actinium 228	0.15	U	0.14	0.24	05/05/09	05/26/09	9125307	
Americium 241	-0.004	U	0.062	0.11	05/05/09	05/26/09	9125307	
Bismuth 212	0.17	U	0.26	0.44	05/05/09	05/26/09	9125307	
Bismuth 214	0.31		0.11	0.11	05/05/09	05/26/09	9125307	
Cesium 137	0.048	U	0.051	0.080	05/05/09	05/26/09	9125307	
Cobalt 60	0.025	U	0.035	0.055	05/05/09	05/26/09	9125307	
Europium 152	0.023	U	0.075	0.14	05/05/09	05/26/09	9125307	
Europium 154	0.0	U	0.33	0.65	05/05/09	05/26/09	9125307	
Lead 210	0.88	U	0.98	1.6	05/05/09	05/26/09	9125307	
Lead 212	0.197		0.079	0.086	05/05/09	05/26/09	9125307	
Lead 214	0.365		0.097	0.11	05/05/09	05/26/09	9125307	
Potassium 40	-0.2	U	9.8	0.8	05/05/09	05/26/09	9125307	
Protactinium 234	-0.019	U	0.097	0.17	05/05/09	05/26/09	9125307	
Radium (226)	0.31		0.11	0.11	05/05/09	05/26/09	9125307	
Thallium 208	0.091		0.050	0.064	05/05/09	05/26/09	9125307	
Thorium 232	0.15	U	0.14	0.24	05/05/09	05/26/09	9125307	
Thorium 234	0.31	U	0.80	1.4	05/05/09	05/26/09	9125307	
Uranium 235	-0.07	U	0.34	0.29	05/05/09	05/26/09	9125307	

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC

Bering Sea Environmental LLC

Client Sample ID: NASPBG-2

Radiochemistry

Lab Sample ID: F9E010358-010
 Work Order: LA8C0
 Matrix: SOLID

Date Collected: 04/30/09 0942
 Date Received: 05/01/09 1010

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		GA-01-R MOD		
Actinium 228	0.19		0.12	0.16	05/05/09	05/26/09	9125307	
Americium 241	0.011	U	0.069	0.12	05/05/09	05/26/09	9125307	
Bismuth 212	0.15	U	0.23	0.39	05/05/09	05/26/09	9125307	
Bismuth 214	0.099	U	0.093	0.16	05/05/09	05/26/09	9125307	
Cesium 137	-0.003	U	0.037	0.069	05/05/09	05/26/09	9125307	
Cobalt 60	-0.003	U	0.019	0.042	05/05/09	05/26/09	9125307	
Europium 152	0.012	U	0.085	0.15	05/05/09	05/26/09	9125307	
Europium 154	0.0	U	0.21	0.42	05/05/09	05/26/09	9125307	
Lead 210	-0.2	U	1.5	1.9	05/05/09	05/26/09	9125307	
Lead 212	0.216		0.075	0.090	05/05/09	05/26/09	9125307	
Lead 214	0.270		0.085	0.096	05/05/09	05/26/09	9125307	
Potassium 40	0.30	U	0.32	0.48	05/05/09	05/26/09	9125307	
Protactinium 234	-0.04	U	0.11	0.19	05/05/09	05/26/09	9125307	
Radium (226)	0.099	U	0.093	0.16	05/05/09	05/26/09	9125307	
Thallium 208	0.080		0.040	0.054	05/05/09	05/26/09	9125307	
Thorium 232	0.19		0.12	0.16	05/05/09	05/26/09	9125307	
Thorium 234	0.33	U	0.72	1.3	05/05/09	05/26/09	9125307	
Uranium 235	-0.03	U	0.87	0.27	05/05/09	05/26/09	9125307	

NOTE (S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC

Bering Sea Environmental LLC

Client Sample ID: NASPBG-3

Radiochemistry

Lab Sample ID: F9E010358-011
 Work Order: LA8C3
 Matrix: SOLID

Date Collected: 04/30/09 0945
 Date Received: 05/01/09 1010

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		GA-01-R MOD		
Actinium 228	0.12	U	0.15	0.27	05/05/09	05/26/09	9125307	
Americium 241	0.015	U	0.060	0.11	05/05/09	05/26/09	9125307	
Bismuth 212	0.1	U	0.25	0.46	05/05/09	05/26/09	9125307	
Bismuth 214	0.30		0.12	0.11	05/05/09	05/26/09	9125307	
Cesium 137	0.016	U	0.043	0.085	05/05/09	05/26/09	9125307	
Cobalt 60	-0.02	U	0.81	0.07	05/05/09	05/26/09	9125307	
Europium 152	0.021	U	0.093	0.17	05/05/09	05/26/09	9125307	
Europium 154	0.12	U	0.23	0.40	05/05/09	05/26/09	9125307	
Lead 210	0.7	U	1.3	2.3	05/05/09	05/26/09	9125307	
Lead 212	0.245		0.081	0.075	05/05/09	05/26/09	9125307	
Lead 214	0.33		0.11	0.11	05/05/09	05/26/09	9125307	
Potassium 40	-0.3	U	2.9	1.1	05/05/09	05/26/09	9125307	
Protactinium 234	-0.001	U	0.068	0.13	05/05/09	05/26/09	9125307	
Radium (226)	0.30		0.12	0.11	05/05/09	05/26/09	9125307	
Thallium 208	0.047	U	0.034	0.057	05/05/09	05/26/09	9125307	
Thorium 232	0.12	U	0.15	0.27	05/05/09	05/26/09	9125307	
Thorium 234	0.29	U	0.66	1.2	05/05/09	05/26/09	9125307	
Uranium 235	-0.02	U	0.27	0.23	05/05/09	05/26/09	9125307	

NOTE (S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC

Bering Sea Environmental LLC

Client Sample ID: NASPBG-4

Radiochemistry

Lab Sample ID: F9E010358-012
 Work Order: LA8DC
 Matrix: SOLID

Date Collected: 04/30/09 0950
 Date Received: 05/01/09 1010

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
Gamma Ra-226 & Hits By DOE GA-010R MOD				pCi/g		GA-01-R MOD		
Actinium 228	0.12	U	0.13	0.20	05/05/09	05/26/09	9125307	
Americium 241	0.033	U	0.061	0.10	05/05/09	05/26/09	9125307	
Bismuth 212	0.007	U	0.29	0.55	05/05/09	05/26/09	9125307	
Bismuth 214	0.095	U	0.086	0.15	05/05/09	05/26/09	9125307	
Cesium 137	0.018	U	0.032	0.056	05/05/09	05/26/09	9125307	
Cobalt 60	0.0	U	0.068	0.12	05/05/09	05/26/09	9125307	
Europium 152	0.015	U	0.063	0.12	05/05/09	05/26/09	9125307	
Europium 154	0.14	U	0.23	0.40	05/05/09	05/26/09	9125307	
Lead 210	0.1	U	1.0	2.0	05/05/09	05/26/09	9125307	
Lead 212	0.200		0.071	0.083	05/05/09	05/26/09	9125307	
Lead 214	0.202		0.074	0.10	05/05/09	05/26/09	9125307	
Potassium 40	0.0	U	0.087	0.32	05/05/09	05/26/09	9125307	
Protactinium 234	0.0	U	0.11	0.19	05/05/09	05/26/09	9125307	
Radium (226)	0.095	U	0.086	0.15	05/05/09	05/26/09	9125307	
Thallium 208	0.002	U	0.036	0.072	05/05/09	05/26/09	9125307	
Thorium 232	0.12	U	0.13	0.20	05/05/09	05/26/09	9125307	
Thorium 234	0.22	U	0.61	1.1	05/05/09	05/26/09	9125307	
Uranium 235	-0.05	U	30	0.3	05/05/09	05/26/09	9125307	

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC

METHOD BLANK REPORT

Radiochemistry

Client Lot ID: F9E010358
 Matrix: SOLID

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	MDC	Lab Sample ID		
					Prep Date	Analysis Date	Batch # Yld %
Gamma Ra-226 & Hits By DOE GA-010R MOD			pCi/g	GA-01-R MOD	F9E050000-307B		
Actinium 228	0.05	U	0.12	0.21	05/05/09	05/26/09	9125307
Americium 241	0.0	U	0.061	0.11	05/05/09	05/26/09	9125307
Bismuth 212	0.05	U	0.18	0.36	05/05/09	05/26/09	9125307
Bismuth 214	0.046	U	0.063	0.10	05/05/09	05/26/09	9125307
Cesium 137	0.0	U	0.0080	0.030	05/05/09	05/26/09	9125307
Cobalt 60	0.0004	U	0.028	0.062	05/05/09	05/26/09	9125307
Europium 152	0.0	U	0.074	0.14	05/05/09	05/26/09	9125307
Europium 154	-0.06	U	0.32	0.60	05/05/09	05/26/09	9125307
Lead 210	0.61	U	0.76	1.2	05/05/09	05/26/09	9125307
Lead 212	0.0006	U	0.045	0.092	05/05/09	05/26/09	9125307
Lead 214	0.113		0.046	0.077	05/05/09	05/26/09	9125307
Potassium 40	-0.25	U	9.97	0.74	05/05/09	05/26/09	9125307
Protactinium 234	-0.012	U	0.075	0.14	05/05/09	05/26/09	9125307
Radium (226)	0.046	U	0.063	0.10	05/05/09	05/26/09	9125307
Thallium 208	-0.02	U	0.63	0.07	05/05/09	05/26/09	9125307
Thorium 232	0.05	U	0.12	0.21	05/05/09	05/26/09	9125307
Thorium 234	0.16	U	0.62	1.2	05/05/09	05/26/09	9125307
Uranium 235	-0.004	U	0.14	0.25	05/05/09	05/26/09	9125307

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined using instrument performance only

Bold results are greater than the MDC

Laboratory Control Sample Report

Radiochemistry

Client Lot ID: F9E010358
 Matrix: SOLID

Parameter	Spike Amount	Result	Total Uncert. (2 σ +/-)	MDC	% Yld	% Rec	Lab Sample ID QC Control Limits
<hr/>							
Gamma Ra-226 & Hits By DOE	GA-010R	MOD	pCi/g	GA-01-R	MOD		F9E050000-307C
Radium (226)	12.2	11.2	0.92	0.36		92	(82 - 110)
Thorium 232	9.50	10.2	1.0	0.5		107	(89 - 130)
	Batch #:	9125307		Analysis Date:	05/26/09		

NOTE (S)

MDC is determined by instrument performance only

Calculations are performed before rounding to avoid round-off error in calculated results

DUPLICATE EVALUATION REPORT

Radiochemistry

Client Lot ID: F9E010358
 Matrix: SOLID

Date Sampled: 04/30/09
 Date Received: 05/01/09

Parameter	SAMPLE Result	Total Uncert. (2σ+/-)	% Yld	DUPLICATE Result	Total Uncert. (2σ+/-)	% Yld	QC Sample ID	
							Precision	
Gamma Ra-226 & Hits By DOE							F9E010358-001	
				GA-01-R MOD				
Actinium 228	0.04	U	0.28	0.14	U	0.28	103	%RPD
Americium 241	0.01	U	0.17	-0.0007	U	0.13	232	%RPD
Bismuth 212	0.30	U	0.52	0.09	U	0.52	109	%RPD
Bismuth 214	6.08		0.59	6.35		0.61	4	%RPD
Cesium 137	0.68		0.13	0.68		0.14	0.9	%RPD
Cobalt 60	-0.02	U	1.5	0.0	U	0.076	200	%RPD
Europium 152	0.15	U	0.16	-0.05	U	0.24	401	%RPD
Europium 154	0.0	U	0.69	0.12	U	0.56	200	%RPD
Lead 210	5.1		2.6	4.3		2.6	16	%RPD
Lead 212	0.44		0.16	0.37		0.15	16	%RPD
Lead 214	6.62		0.57	6.75		0.61	2	%RPD
Potassium 40	0.50	U	0.85	-0.25	U	9.97	602	%RPD
Protactinium 234	-0.05	U	0.23	-0.06	U	0.27	21	%RPD
Radium (226)	6.08		0.59	6.35		0.61	4	%RPD
Thallium 208	0.037	U	0.074	0.073	U	0.075	65	%RPD
Thorium 232	0.04	U	0.28	0.14	U	0.28	103	%RPD
Thorium 234	0.5	U	1.8	0.3	U	2.0	40	%RPD
Uranium 235	0.09	U	0.31	-0.03	U	22	361	%RPD
Batch #:			9125307 (Sample)			9125307 (Duplicate)		

NOTE(S)

Data are incomplete without the case narrative.

Calculations are performed before rounding to avoid round-off error in calculated results

F9E010358

CLIENT ANALYSIS SUMMARY

Storage Loc: **RAD**

Project Manager: IV

Quote #: 82885 SDG:

Date Received: 2009-05-01

Project:

NAS Pensacola FL P1

Analytical Due Date: 2009-05-20

PO#:

Report to: Dan Spicuzza

Report Due Date: 2009-05-22

Client: 1423684 Bering Sea Environmental LLC

#SMPS in LOT: 15

Report Type: W

EDD Code: 00

Login TCLP and TCLP XHE preps per sample.

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	A
1	NASP-1			2009-04-30 / 830	LA8A3	SOLID
SAMPLE COMMENTS:						
XX ZV	RAD SCREEN	SOLID, RAD SCREEN	RA IN-HOUSE RAD SCREEN	01 STANDARD TEST SET	PROT: A	WRK LOC 06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hits	J9 Dry, Grind, and Fill Geometry -> 21 day in-growth	01 STANDARD TEST SET	PROT: A	WRK LOC 06
2	NASP-2			2009-04-30 / 835	LA8CK	SOLID
SAMPLE COMMENTS:						
XX ZV	RAD SCREEN	SOLID, RAD SCREEN	RA IN-HOUSE RAD SCREEN	01 STANDARD TEST SET	PROT: A	WRK LOC 06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hits	J9 Dry, Grind, and Fill Geometry -> 21 day in-growth	01 STANDARD TEST SET	PROT: A	WRK LOC 06
3	NASP-3			2009-04-30 / 840	LA8CL	SOLID
SAMPLE COMMENTS:						
XX ZV	RAD SCREEN	SOLID, RAD SCREEN	RA IN-HOUSE RAD SCREEN	01 STANDARD TEST SET	PROT: A	WRK LOC 06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hits	J9 Dry, Grind, and Fill Geometry -> 21 day in-growth	01 STANDARD TEST SET	PROT: A	WRK LOC 06
4	NASP-4			2009-04-30 / 845	LA8CM	SOLID
SAMPLE COMMENTS:						
XX ZV	RAD SCREEN	SOLID, RAD SCREEN	RA IN-HOUSE RAD SCREEN	01 STANDARD TEST SET	PROT: A	WRK LOC 06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hits	J9 Dry, Grind, and Fill Geometry -> 21 day in-growth	01 STANDARD TEST SET	PROT: A	WRK LOC 06
5	NASP-5			2009-04-30 / 850	LA8CP	SOLID
SAMPLE COMMENTS:						
XX ZV	RAD SCREEN	SOLID, RAD SCREEN	RA IN-HOUSE RAD SCREEN	01 STANDARD TEST SET	PROT: A	WRK LOC 06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hits	J9 Dry, Grind, and Fill Geometry -> 21 day in-growth	01 STANDARD TEST SET	PROT: A	WRK LOC 06
6	NASP-6			2009-04-30 / 905	LA8CQ	SOLID
SAMPLE COMMENTS:						
XX ZV	RAD SCREEN	SOLID, RAD SCREEN	RA IN-HOUSE RAD SCREEN	01 STANDARD TEST SET	PROT: A	WRK LOC 06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hits	J9 Dry, Grind, and Fill Geometry -> 21 day in-growth	01 STANDARD TEST SET	PROT: A	WRK LOC 06
7	NASP-7			2009-04-30 / 915	LA8CT	SOLID
SAMPLE COMMENTS:						
XX ZV	RAD SCREEN	SOLID, RAD SCREEN	RA IN-HOUSE RAD SCREEN	01 STANDARD TEST SET	PROT: A	WRK LOC 06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hits	J9 Dry, Grind, and Fill Geometry -> 21 day in-growth	01 STANDARD TEST SET	PROT: A	WRK LOC 06

F9E010358

CLIENT ANALYSIS SUMMARY

Storage Loc: RAD
 Date Received: 2009-05-01
 Analytical Due Date: 2009-05-20
 Report Due Date: 2009-05-22
 Report Type: W
 EDD Code: 00

Project Manager: IV Quote #: 82885 SDG:
 Project: NAS Pensacola FL P1
 PO#: Report to: Dan Spicuzza
 Client: 1423684 Bering Sea Environmental LLC

#SMPS in LOT: 15

Login TCLP and TCLP XHE preps per sample.

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	A
8	NASP-8			2009-04-30 / 910	LA8CV	SOLID
SAMPLE COMMENTS:						
XX ZV	RAD SCREEN	SOLID, RAD SCREEN	RA IN-HOUSE RAD SCREEN	01 STANDARD TEST SET	PROT: A	WRK LOC 06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hits	J9 Dry, Grind, and Fill Geometry -> 21 day in-growth	01 STANDARD TEST SET	PROT: A	WRK LOC 06
9	NASPBG-1			2009-04-30 / 940	LA8CW	SOLID
SAMPLE COMMENTS:						
XX ZV	RAD SCREEN	SOLID, RAD SCREEN	RA IN-HOUSE RAD SCREEN	01 STANDARD TEST SET	PROT: A	WRK LOC 06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hits	J9 Dry, Grind, and Fill Geometry -> 21 day in-growth	01 STANDARD TEST SET	PROT: A	WRK LOC 06
10	NASPBG-2			2009-04-30 / 942	LA8C0	SOLID
SAMPLE COMMENTS:						
XX ZV	RAD SCREEN	SOLID, RAD SCREEN	RA IN-HOUSE RAD SCREEN	01 STANDARD TEST SET	PROT: A	WRK LOC 06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hits	J9 Dry, Grind, and Fill Geometry -> 21 day in-growth	01 STANDARD TEST SET	PROT: A	WRK LOC 06
11	NASPBG-3			2009-04-30 / 945	LA8C3	SOLID
SAMPLE COMMENTS:						
XX ZV	RAD SCREEN	SOLID, RAD SCREEN	RA IN-HOUSE RAD SCREEN	01 STANDARD TEST SET	PROT: A	WRK LOC 06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hits	J9 Dry, Grind, and Fill Geometry -> 21 day in-growth	01 STANDARD TEST SET	PROT: A	WRK LOC 06
12	NASPBG-4			2009-04-30 / 950	LA8DC	SOLID
SAMPLE COMMENTS:						
XX ZV	RAD SCREEN	SOLID, RAD SCREEN	RA IN-HOUSE RAD SCREEN	01 STANDARD TEST SET	PROT: A	WRK LOC 06
XX 0B	EML GA-01-R MOD	SOLID, GA-01-R MOD, Gamma Ra-226 & Hits	J9 Dry, Grind, and Fill Geometry -> 21 day in-growth	01 STANDARD TEST SET	PROT: A	WRK LOC 06
13	NASPW-1			2009-04-30 / 900	LA8DD	SOLID
SAMPLE COMMENTS:						
XX QJ	SW846 8081A	TCLP, 8081A, Pesticides (Full TCLP)	48 TCLP(1311) -> LIQ/LIQ, CONT - Nominal	01 STANDARD TEST SET	PROT: B	WRK LOC 06
XX QS	SW846 8151A	TCLP, 8051A, Herbicides (Full TCLP)	64 TCLP(1311) -> LIQ/LIQ, SEP FUNNEL - Acid ->	01 STANDARD TEST SET	PROT: B	WRK LOC 06
HG O8	SW846 7470A	TCLP, 7470A, Metals 2of2 (Full TCLP)SOIL	01M TCLP(1311) -> METALS, TOTAL (Method exclusive)	01 STANDARD TEST SET	PROT: B	WRK LOC 06
BA QO	SW846 6010B	TCLP, 6010B, Metals 1of2 (Full TCLP)SOIL	34 TCLP(1311) -> METALS, TOTAL	01 STANDARD TEST SET	PROT: B	WRK LOC 06
ZN QO	SW846 6010B	TCLP, 6010B, Metals 1of2 (Full TCLP)SOIL	34 TCLP(1311) -> METALS, TOTAL	01 STANDARD TEST SET	PROT: B	WRK LOC 06
SE QO	SW846 6010B	TCLP, 6010B, Metals 1of2 (Full TCLP)SOIL	34 TCLP(1311) -> METALS, TOTAL	01 STANDARD TEST SET	PROT: B	WRK LOC 06
PB QO	SW846 6010B	TCLP, 6010B, Metals 1of2 (Full TCLP)SOIL	34 TCLP(1311) -> METALS, TOTAL	01 STANDARD TEST SET	PROT: B	WRK LOC 06
CD QO	SW846 6010B	TCLP, 6010B, Metals 1of2 (Full TCLP)SOIL	34 TCLP(1311) -> METALS, TOTAL	01 STANDARD TEST SET	PROT: B	WRK LOC 06
AS QO	SW846 6010B	TCLP, 6010B, Metals 1of2 (Full TCLP)SOIL	34 TCLP(1311) -> METALS, TOTAL	01 STANDARD TEST SET	PROT: B	WRK LOC 06

F9E010358

CLIENT ANALYSIS SUMMARY

Storage Loc:

1-121

Project Manager: IV

Quote #: 82885 SDG:

Date Received: 2009-05-01

Project:

NAS Pensacola FL P1

Analytical Due Date: 2009-05-20

PO#:

Report to: Dan Spicuzza

Report Due Date: 2009-05-22

Client: 1423684 Bering Sea Environmental LLC

#SMPS in LOT: 15

Report Type: W

EDD Code: 00

Log in TCLP and TCLP XHE preps per sample.

AG	QO	SW846	6010B	TCLP, 6010B, Metals 1of2 (Full TCLP)SOIL	34	TCLP(1311) -> METALS, TOTAL	01	STANDARD TEST SET	PROT: B	WRK LOC	06
CR	QO	SW846	6010B	TCLP, 6010B, Metals 1of2 (Full TCLP)SOIL	34	TCLP(1311) -> METALS, TOTAL	01	STANDARD TEST SET	PROT: B	WRK LOC	06
XX	QL	SW846	8270C	TCLP, 8270C, SVOA (Full TCLP)	59	TCLP(1311) -> LIQ/LIQ, CONT - Acid->Base	01	STANDARD TEST SET	PROT: B	WRK LOC	06 TIC: N
XX	QK	SW846	8260B	TCLP/ZHE, 8260B, VOCs (Full TCLP)	58	TCLP(1311-ZHE/filter) -> PURGE-AND-TRAP (Low Level)	01	STANDARD TEST SET	PROT: B	WRK LOC	06 TIC: N
XX	ZV		RAD SCREEN	SOLID, RAD SCREEN	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX	ZZ	NONE	NONE	SOLID, TCLP Non-Volatiles Extraction	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: B	WRK LOC	06
XX	ZZ	NONE	NONE	SOLID, TCLP Volatiles Extraction	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: B	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	A					
14	NASPW-2			2009-04-30 / 900	LA8DP	SOLID					
SAMPLE COMMENTS:											
XX	QJ	SW846	8081A	TCLP, 8081A, Pesticides (Full TCLP)	48	TCLP(1311) -> LIQ/LIQ, CONT - Nominal	01	STANDARD TEST SET	PROT: B	WRK LOC	06
XX	QS	SW846	8151A	TCLP, 8051A, Herbicides (Full TCLP)	64	TCLP(1311) -> LIQ/LIQ, SEP FUNNEL - Acid ->	01	STANDARD TEST SET	PROT: B	WRK LOC	06
HG	O8	SW846	7470A	TCLP, 7470A, Metals 2of2 (Full TCLP)SOIL	0M	TCLP(1311) -> METALS, TOTAL (Method exclusive)	01	STANDARD TEST SET	PROT: B	WRK LOC	06
SE	QO	SW846	6010B	TCLP, 6010B, Metals 1of2 (Full TCLP)SOIL	34	TCLP(1311) -> METALS, TOTAL	01	STANDARD TEST SET	PROT: B	WRK LOC	06
CR	QO	SW846	6010B	TCLP, 6010B, Metals 1of2 (Full TCLP)SOIL	34	TCLP(1311) -> METALS, TOTAL	01	STANDARD TEST SET	PROT: B	WRK LOC	06
ZN	QO	SW846	6010B	TCLP, 6010B, Metals 1of2 (Full TCLP)SOIL	34	TCLP(1311) -> METALS, TOTAL	01	STANDARD TEST SET	PROT: B	WRK LOC	06
CD	QO	SW846	6010B	TCLP, 6010B, Metals 1of2 (Full TCLP)SOIL	34	TCLP(1311) -> METALS, TOTAL	01	STANDARD TEST SET	PROT: B	WRK LOC	06
BA	QO	SW846	6010B	TCLP, 6010B, Metals 1of2 (Full TCLP)SOIL	34	TCLP(1311) -> METALS, TOTAL	01	STANDARD TEST SET	PROT: B	WRK LOC	06
AS	QO	SW846	6010B	TCLP, 6010B, Metals 1of2 (Full TCLP)SOIL	34	TCLP(1311) -> METALS, TOTAL	01	STANDARD TEST SET	PROT: B	WRK LOC	06
AG	QO	SW846	6010B	TCLP, 6010B, Metals 1of2 (Full TCLP)SOIL	34	TCLP(1311) -> METALS, TOTAL	01	STANDARD TEST SET	PROT: B	WRK LOC	06
PB	QO	SW846	6010B	TCLP, 6010B, Metals 1of2 (Full TCLP)SOIL	34	TCLP(1311) -> METALS, TOTAL	01	STANDARD TEST SET	PROT: B	WRK LOC	06
XX	QL	SW846	8270C	TCLP, 8270C, SVOA (Full TCLP)	59	TCLP(1311) -> LIQ/LIQ, CONT - Acid->Base	01	STANDARD TEST SET	PROT: B	WRK LOC	06 TIC: N
XX	QK	SW846	8260B	TCLP/ZHE, 8260B, VOCs (Full TCLP)	58	TCLP(1311-ZHE/filter) -> PURGE-AND-TRAP (Low Level)	01	STANDARD TEST SET	PROT: B	WRK LOC	06 TIC: N
XX	ZV		RAD SCREEN	SOLID, RAD SCREEN	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX	ZZ	NONE	NONE	SOLID, TCLP Volatiles Extraction	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: B	WRK LOC	06
XX	ZZ	NONE	NONE	SOLID, TCLP Non-Volatiles Extraction	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: B	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	A					
15	NASPW-3			2009-04-30 / 900	LA8DT	SOLID					
SAMPLE COMMENTS:											
XX	QJ	SW846	8081A	TCLP, 8081A, Pesticides (Full TCLP)	48	TCLP(1311) -> LIQ/LIQ, CONT - Nominal	01	STANDARD TEST SET	PROT: B	WRK LOC	06
XX	QS	SW846	8151A	TCLP, 8051A, Herbicides (Full TCLP)	64	TCLP(1311) -> LIQ/LIQ, SEP FUNNEL - Acid ->	01	STANDARD TEST SET	PROT: B	WRK LOC	06
HG	O8	SW846	7470A	TCLP, 7470A, Metals 2of2 (Full TCLP)SOIL	0M	TCLP(1311) -> METALS, TOTAL (Method exclusive)	01	STANDARD TEST SET	PROT: B	WRK LOC	06
PB	QO	SW846	6010B	TCLP, 6010B, Metals 1of2 (Full TCLP)SOIL	34	TCLP(1311) -> METALS, TOTAL	01	STANDARD TEST SET	PROT: B	WRK LOC	06
ZN	QO	SW846	6010B	TCLP, 6010B, Metals 1of2 (Full TCLP)SOIL	34	TCLP(1311) -> METALS, TOTAL	01	STANDARD TEST SET	PROT: B	WRK LOC	06
CR	QO	SW846	6010B	TCLP, 6010B, Metals 1of2 (Full TCLP)SOIL	34	TCLP(1311) -> METALS, TOTAL	01	STANDARD TEST SET	PROT: B	WRK LOC	06
CD	QO	SW846	6010B	TCLP, 6010B, Metals 1of2 (Full TCLP)SOIL	34	TCLP(1311) -> METALS, TOTAL	01	STANDARD TEST SET	PROT: B	WRK LOC	06
BA	QO	SW846	6010B	TCLP, 6010B, Metals 1of2 (Full TCLP)SOIL	34	TCLP(1311) -> METALS, TOTAL	01	STANDARD TEST SET	PROT: B	WRK LOC	06

F9E010358

CLIENT ANALYSIS SUMMARY

Storage Loc:

VS3

Project Manager: IV

Quote #: 82885 SDG:

Date Received: 2009-05-01

Project:

NAS Pensacola FL P1

Analytical Due Date: 2009-05-20

PO#:

Report to: Dan Spicuzza

Report Due Date: 2009-05-22

Client: 1423684 Bering Sea Environmental LLC

#SMPS in LOT: 15

Report Type: W

EDD Code: 00

Login TCLP and TCLP XHE preps per sample.

AS	QO	SW846	6010B	TCLP, 6010B, Metals 1of2 (Full TCLP)SOIL	34	TCLP(1311) -> METALS, TOTAL	01	STANDARD TEST SET	PROT: B	WRK LOC	06	
AG	QO	SW846	6010B	TCLP, 6010B, Metals 1of2 (Full TCLP)SOIL	34	TCLP(1311) -> METALS, TOTAL	01	STANDARD TEST SET	PROT: B	WRK LOC	06	
SE	QO	SW846	6010B	TCLP, 6010B, Metals 1of2 (Full TCLP)SOIL	34	TCLP(1311) -> METALS, TOTAL	01	STANDARD TEST SET	PROT: B	WRK LOC	06	
XX	QL	SW846	8270C	TCLP, 8270C, SVOA (Full TCLP)	59	TCLP(1311) -> LIQ/LIQ, CONT - Acid->Base	01	STANDARD TEST SET	PROT: B	WRK LOC	06	TIC: N
XX	QK	SW846	8260B	TCLP/ZHE, 8260B, VOCs (Full TCLP)	58	TCLP(1311-ZHE/filter) -> PURGE-AND-TRAP (Low Level)	01	STANDARD TEST SET	PROT: B	WRK LOC	06	TIC: N
XX	ZV			SOLID, RAD SCREEN	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06	
XX	ZZ	NONE	NONE	SOLID, TCLP Volatiles Extraction	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: B	WRK LOC	06	
XX	ZZ	NONE	NONE	SOLID, TCLP Non-Volatiles Extraction	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: B	WRK LOC	06	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Temperature on Receipt Yes No
 Drinking Water? Yes No

Chain of Custody Record

TAL-4124 (1007)
 Client: **WDS, LLC**
 Address: **11200 B. St. Suite 404**
 City: **Archerhart** State: **IN** Zip Code: **46020**
 Project Name and Location (State): **WAS PERSACDA, FL**
 Contract/Purchase Order/Quote No.: **DO20004**
 Project Manager: **Shane Spivey**
 Telephone Number (Area Code)/Fax Number: **317-894-1333 / Same**
 Site Contact: **Shane Spivey** Lab Contact: **Shane Spivey**
 Carrier/Waybill Number: **8640 5510 0337**
 Date: **4-30-09** Lab Number: **127356**
 Page **1** of **1**

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix			Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt	
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl			NaOH
WASB-1	4-30-09	0830			X	X	X	X	X	X	X	X	506P
WASB-2	4-30-09	0935			X	X	X	X	X	X	X		
WASB-3	4-30-09	0840			X	X	X	X	X	X	X		
WASB-4	4-30-09	0845			X	X	X	X	X	X	X		
WASB-5	4-30-09	0850			X	X	X	X	X	X	X		
WASB-6	4-30-09	0905			X	X	X	X	X	X	X		
WASB-7	4-30-09	0915			X	X	X	X	X	X	X		
WASB-8	4-30-09	0940			X	X	X	X	X	X	X		
WASB BG-1	4-30-09	0940			X	X	X	X	X	X	X		
WASB BG-2	4-30-09	0945			X	X	X	X	X	X	X		
WASB BG-3	4-30-09	0945			X	X	X	X	X	X	X		
WASB BG-4	4-30-09	0950			X	X	X	X	X	X	X		

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For _____ Months longer than 1 month

GC Requirements (Specify)
 Turn Around Time Required
 24 Hours 48 Hours 7 Days 14 Days 21 Days Other _____
 1. Relinquished By: **Shane Spivey** Date: **4-30-09** Time: **1400**
 2. Relinquished By: _____ Date: _____ Time: _____
 3. Relinquished By: _____ Date: _____ Time: _____
 1. Received By: **Shane Spivey** Date: **5-1-09** Time: **1010**
 2. Received By: _____ Date: _____ Time: _____
 3. Received By: _____ Date: _____ Time: _____

Comments: _____
 DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Temperature on Receipt _____
 Drinking Water? Yes No

THE LEADER IN ENVIRONMENTAL TESTING

Chain of Custody Record

TAL-4124 (1/007)

Client: **AWS, LLC** Project Manager: **Daniel Spore** Chain of Custody Number: **127357**

Address: **4300 B. St. Ste 404** Telephone Number (Area Code)/Fax Number: **430-0014** Lab Number: **430-0014** Page **1** of **2**

City: **Avonmore, PA** State: **PA** Zip Code: **15002** Site Contact: **Chris** Analysis (Attach list if more space is needed)

Project Name and Location (State): **AWSPW-1** Carrier/Maybill Number: **8640 5510 0517** Containers & Preservatives

Contract/Purchase Order/Quote No.: **802-0014**

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix			Containers & Preservatives					Special Instructions/ Conditions of Receipt	
			Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH		ZnAc/NaOH
AWSPW-1	4-30-09	0900	X	X	X	X	X	X	X	X	X	290g
AWSPW-2	4-30-09	0900	X	X	X	X	X	X	X	X	X	39g
AWSPW-3	4-30-09	0900	X	X	X	X	X	X	X	X	X	39g

Sample Disposal: Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown

Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other _____

QC Requirements (Specify): **None**

1. Relinquished By: **Paula** Date: **4-30-09** Time: **1400**

2. Relinquished By: **Paula** Date: **4-30-09** Time: **1400**

3. Relinquished By: _____ Date: _____ Time: _____

Comments: _____

1. Received By: **Paula** Date: **4-5-09** Time: **1000**

2. Received By: **Paula** Date: _____ Time: _____

3. Received By: _____ Date: _____ Time: _____

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Lot #(s): F9E010358
020114 09 5/2/09

CONDITION UPON RECEIPT FORM

Client: AWS

Quote No: 82885

COC/RFA No: 127356, 127357

363

Initiated By: OTD Date: 05-01-09 Time: 1010

Shipping Information

Shipper: FedEx UPS DHL Courier Client Other: _____ Multiple Packages: Y N

Shipping # (s):*	Sample Temperature (s):**
1. <u>8640 5570 9337</u>	1. <u>6</u>
2. _____	2. _____
3. _____	3. _____
4. _____	4. _____
5. _____	5. _____
6. _____	6. _____
7. _____	7. _____
8. _____	8. _____
9. _____	9. _____
10. _____	10. _____

*Numbered shipping lines correspond to Numbered Sample Temp lines

**Sample must be received at 4°C ± 2°C- If not, note contents below. Temperature variance does NOT affect the following: Metals-Liquid or Rad tests- Liquid or Solids

Condition (Circle "Y" for yes, "N" for no and "N/A" for not applicable):

1. <input checked="" type="radio"/> Y <input type="radio"/> N	Are there custody seals present on the cooler?	8. <input type="radio"/> Y <input checked="" type="radio"/> N	Are there custody seals present on bottles?
2. <input type="radio"/> Y <input checked="" type="radio"/> N <input type="radio"/> N/A	Do custody seals on cooler appear to be tampered with?	9. <input type="radio"/> Y <input type="radio"/> N <input checked="" type="radio"/> N/A	Do custody seals on bottles appear to be tampered with?
3. <input checked="" type="radio"/> Y <input type="radio"/> N	Were contents of cooler frisked after opening, but before unpacking?	10. <input type="radio"/> Y <input type="radio"/> N <input checked="" type="radio"/> N/A	Was sample received with proper pH? (If not, make note below)
4. <input checked="" type="radio"/> Y <input type="radio"/> N	Sample received with Chain of Custody?	11. <input checked="" type="radio"/> Y <input type="radio"/> N	Sample received in proper containers?
5. <input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/> N/A	Does the Chain of Custody match sample ID's on the container(s)?	12. <input type="radio"/> Y <input type="radio"/> N <input checked="" type="radio"/> N/A	Headspace in VOA or TOX liquid samples? (If Yes, note sample ID's below)
6. <input type="radio"/> Y <input checked="" type="radio"/> N	Was sample received broken?	13. <input type="radio"/> Y <input type="radio"/> N <input checked="" type="radio"/> N/A	Was Internal COC/Workshare received?
7. <input checked="" type="radio"/> Y <input type="radio"/> N	Is sample volume sufficient for analysis?	14. <input type="radio"/> Y <input type="radio"/> N <input checked="" type="radio"/> N/A	Was pH taken by original TestAmerica lab?

¹ For DOE-AL (Pantex, LANL, Sandia) sites, pH of ALL containers received must be verified, EXCEPT VOA, TOX and soils.

Notes:

Corrective Action:

- Client Contact Name: _____
- Sample(s) processed "as is"
- Sample(s) on hold until: _____
- Project Management Review: [Signature]

Informed by: _____

If released, notify: _____

Date: 5-4-9

THIS FORM MUST BE COMPLETED AT THE TIME THE ITEMS ARE BEING CHECKED IN. IF ANY ITEM IS COMPLETED BY SOMEONE OTHER THAN THE INITIATOR, THEN THAT PERSON IS REQUIRED TO APPLY THEIR INITIAL AND THE DATE NEXT TO THAT ITEM.

ADMIN-0004, REVISED 10/21/08 \\S1svr01\QA\FORMS\ST-LOUIS\ADMIN\Admin004 rev11.doc



TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

NAS Pensacola FL P1

Lot #: F9F180313

Dan Spicuzza

Bering Sea Environmental LLC
dba Aleut World Solutions
4300 B Street, Suite 402
Anchorage, AK 99503

TESTAMERICA LABORATORIES, INC.

A handwritten signature in black ink, appearing to read "Ivan Vania", is written over a white background.

Ivan Vania
Project Manager

June 26, 2009

Case Narrative
LOT NUMBER: F9F180313

This report contains the analytical results for the sample received under chain of custody by TestAmerica St. Louis on June 18, 2009. This sample is associated with your NAS Pensacola FL P1 project.

The analytical results included in this report meet all applicable quality control procedure requirements except as noted on the following page.

The test results in this report meet all NELAP requirements for parameters in which accreditations are held by TestAmerica St. Louis. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of this report.

All chemical analysis results are based upon sample as received, wet weight, unless noted otherwise. All radiochemistry results are based upon sample as dried and ground with the exception of tritium, unless requested wet weight by the client.

Observations/Nonconformances

Reference the chain of custody and condition upon receipt report for any variations on receipt conditions and temperature of samples on receipt.

PCBs (SW-846 8082)

Batch 9170021:

The sample surrogate recovery is outside the established QC limits. The MS/MSD that is associated with this sample also had surrogate recoveries outside the QC limits indicating that matrix interference is present in the sample.

Affected Samples:

F9F180313 (1): NASPW-1

Batch 9170021:

The MS/MSD recoveries for Aroclor 1016 are outside the established QC limits. The RPD is within method acceptance criteria indicating possible matrix interference. Method performance is demonstrated by acceptable LCS recovery.

Affected Samples:

F9F180313 (1): NASPW-1

Batch 9170021:

The CCV recoveries for PCAL573 were outside the upper QC limits (greater than 20%D) on the secondary column for Aroclor 1260 and DCB indicating a potential high bias for the analytes in the associated samples. This column will be used as a confirmation column only and no data will be reported from this column.

Affected Samples:

F9F180313 (1): NASPW-1

There were no other nonconformances or observations noted with any analysis on this lot.

METHODS SUMMARY

F9F180313

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
Percent Moisture	MCAWW 160.3 MOD	MCAWW 160.3 MOD
PCBs by SW-846 8082	SW846 8082	SW846 3550B/366

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes",
EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical
Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

F9F180313

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT</u>	<u>SAMPLE ID</u>	<u>SAMPLED</u>	<u>SAMP</u>
				<u>DATE</u>	<u>TIME</u>
LE708	001	NASFW-1		04/30/09	09:00

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Bering Sea Environmental LLC

Client Sample ID: NASPW-1

GC Semivolatiles

Lot-Sample #....: F9F180313-001 Work Order #....: LE7081AC Matrix.....: SOLID
 Date Sampled....: 04/30/09 09:00 Date Received...: 06/18/09
 Prep Date.....: 06/19/09 Analysis Date...: 06/22/09
 Prep Batch #....: 9170021 Analysis Time...: 23:45
 Dilution Factor: 1
 % Moisture.....: 1.6 Method.....: SW846 8082

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Aroclor 1016	ND	34	ug/kg
Aroclor 1221	ND	34	ug/kg
Aroclor 1232	ND	34	ug/kg
Aroclor 1242	ND	34	ug/kg
Aroclor 1248	ND	34	ug/kg
Aroclor 1254	ND	34	ug/kg
Aroclor 1260	ND	34	ug/kg

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Decachlorobiphenyl	230 *	(42 - 150)

NOTE (S) :

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

Bering Sea Environmental LLC

Client Sample ID: NASPW-1

General Chemistry

Lot-Sample #....: F9F180313-001 Work Order #....: LE708 Matrix.....: SOLID
 Date Sampled....: 04/30/09 09:00 Date Received...: 06/18/09
 % Moisture.....: 1.6

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Moisture	1.6	0.10	%	MCAWW 160.3 MOD	06/22-06/23/09	9173453
		Dilution Factor: 1		Analysis Time..: 00:00		

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: F9F180313 Work Order #...: LE8C11AA Matrix.....: SOLID
 MB Lot-Sample #: F9F190000-021
 Prep Date.....: 06/19/09 Analysis Time...: 23:13
 Analysis Date...: 06/22/09 Prep Batch #...: 9170021
 Dilution Factor: 1

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Aroclor 1016	ND	33	ug/kg	SW846 8082
Aroclor 1221	ND	33	ug/kg	SW846 8082
Aroclor 1232	ND	33	ug/kg	SW846 8082
Aroclor 1242	ND	33	ug/kg	SW846 8082
Aroclor 1248	ND	33	ug/kg	SW846 8082
Aroclor 1254	ND	33	ug/kg	SW846 8082
Aroclor 1260	ND	33	ug/kg	SW846 8082
	<u>PERCENT</u>	<u>RECOVERY</u>		
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>		
Decachlorobiphenyl	105	(42 - 150)		

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: F9F180313 Work Order #...: LE8C11AC Matrix.....: SOLID
 LCS Lot-Sample#: F9F190000-021
 Prep Date.....: 06/19/09 Analysis Date...: 06/22/09
 Prep Batch #...: 9170021 Analysis Time...: 23:29
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
Aroclor 1016	93	(74 - 130)	SW846 8082
Aroclor 1260	101	(73 - 139)	SW846 8082

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Decachlorobiphenyl	114	(64 - 140)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: F9F180313 Work Order #...: LE7081AD-MS Matrix.....: SOLID
 MS Lot-Sample #: F9F180313-001 LE7081AE-MSD
 Date Sampled...: 04/30/09 09:00 Date Received...: 06/18/09
 Prep Date.....: 06/19/09 Analysis Date...: 06/23/09
 Prep Batch #...: 9170021 Analysis Time...: 00:02
 Dilution Factor: 1 % Moisture.....: 1.6

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	99	(42 - 150)			SW846 8082
	97	(42 - 150)	2.1	(0-30)	SW846 8082
Aroclor 1260	201 a	(44 - 150)			SW846 8082
	200 a	(44 - 150)	0.53	(0-30)	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	310 *	(42 - 150)
	247 *	(42 - 150)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: F9F180313 Work Order #....: LFCCH-SMP Matrix.....: SOLID

LFCCH-DUP

Date Sampled....: 06/19/09 13:00 Date Received...: 06/20/09

% Moisture.....: 17

<u>PARAM RESULT</u>	<u>DUPLICATE RESULT</u>	<u>UNITS</u>	<u>RPD</u>	<u>RPD LIMIT</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Moisture	16.3	%	4.1	(0-30)	SD Lot-Sample #: F9F200115-002 MCAWW 160.3 MOD	06/22-06/23/09	9173453
16.9							
Dilution Factor: 1			Analysis Time...: 00:00				

F9F180313

CLIENT ANALYSIS SUMMARY

Storage Loc: **1-122**
 Date Received: 2009-06-18
 Analytical Due Date: 2009-06-24
 Report Due Date: 2009-06-25
 Report Type: W
 EDD Code: 00

Project Manager: IV Quote #: 82885 SDG:
 Project: NAS Pensacola FL P1
 PO#: Report to: Dan Spicuzza
 Client: 1423684 Bering Sea Environmental LLC

RUSH

#SMPS in LOT: 0

Login TCLP and TCLP XHE preps per sample.

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>A</u>
1	NASPW-1			2009-04-30 / 900	LE708	SOLID
SAMPLE COMMENTS:						
XX QH	SW846 8082		SOLID, 8082, PCBs	71 SONICATION w/ACID STRIP (PCB)	01 STANDARD TEST SET	PROT: B WRK LOC 06
XX WM	MCAW 160.3 MOD W		SOLID, 160.3 MOD, Percent Moisture	88 NO SAMPLE PREPARATION PERFORMED / DIRECT	01 STANDARD TEST SET	PROT: A WRK LOC 06



REANALYSIS / SUB-CONTRACT / CLIENT RETURN FORM

Request Initiated by: Vania
 Request Date: 06/17/09
 Quote Number: 82885
 Client Number: 1423684
 SDG Number: _____

Request is for (check one):

- Return to Client – (Client FedEx #)
- Reanalysis
- Sub-Contract Sample
- Additional Analysis

New Lot (check one):

- Yes
- No

Old Lot Number: F9E010358 -013

Client ID	Sampled date/time*	Shelf Location	Line Item from quote (include Rad Screen if required)
NASPW-1	See COC	1-121	SOLID, 8082, PCBs .00 B SOLID, 160.3 MOD, Percent Moisture .00 M A

* or attach original Chain of Custody

Due Date for New Login:

Analytical 6/24/2009	Report 6/25/2009
-------------------------	---------------------

For Sub-Contract or Return to Client ONLY

Shipping Address: _____

 Contact Person: _____
 Phone Number: _____

Project Manager Signature: [Signature]

DO NOT HAVE LAB PULL ORIGINAL SAMPLE

Completed by: [Signature] Date: 06.18.09

New Login Lot Number: F9F180313 (place copy of this form in old file)

Initial that Containers were Re-labeled: [Signature] (place below lot number of old label)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Temperature on Receipt

Drinking Water? Yes No

Chain of Custody Record

TAL-412A (1007)

Client: **WWS, LLC** Chain of Custody Number: **127356**
 Address: **W200 B.S. S. Side 404** Lab Number: **4-30-09**
 City: **Avonhbay** State: **FL** Zip Code: **32003** Page: **1** of **1**
 Project Name and Location (State): **WWS PERSACOLA, FL**
 Contract/Purchase Order/Quote No.: **DO20014**

Project Manager: **Sheryl Spivey**
 Telephone Number (Area Code/Fax Number): **904-844-1333** Sample
 Site Contact: **DNV** Lab Contact: **Sim**
 Carrier/Trailer/Truck Number: **8640 S510 0337**

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix				Containers & Preservatives				Special Instructions/ Conditions of Receipt		
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl		NaOH	ZnAc/NaOH
WASB-1	4-30-09	0830				X	X	X	X	X	X	X	506P
WASB-2	4-30-09	0835				X	X	X	X	X	X		
WASB-3	4-30-09	0840				X	X	X	X	X	X		
WASB-4	4-30-09	0845				X	X	X	X	X	X		
WASB-5	4-30-09	0850				X	X	X	X	X	X		
WASB-6	4-30-09	0905				X	X	X	X	X	X		
WASB-7	4-30-09	0915				X	X	X	X	X	X		
WASB-8	4-30-09	0940				X	X	X	X	X	X		
WASB BG-1	4-30-09	0940				X	X	X	X	X	X		
WASB BG-4	4-30-09	0944				X	X	X	X	X	X		
WASB BG-3	4-30-09	0945				X	X	X	X	X	X		
WASB BG-4	4-30-09	0950				X	X	X	X	X	X		

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown Return to Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

GC Requirements (Specify): **Level 1 ID**

Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: _____

1. Relinquished By: **[Signature]** Date: **4-30-09** Time: **1400**
 2. Relinquished By: _____ Date: _____ Time: _____

1. Received By: **[Signature]** Date: **5-1-09** Time: **1010**
 2. Received By: _____ Date: _____ Time: _____
 3. Received By: _____ Date: _____ Time: _____

Comments: _____

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Temperature on Receipt _____

Drinking Water? Yes No

JMB

Chain of Custody Record

TAL-4124 (1007)

Client: **AWS LLC** Project Manager: **Daniel Spaworth** Chain of Custody Number: **127357**

Address: **4300 B. St. Ste 104** Telephone Number (Area Code)/Fax Number: **430-0a** Date: **4-30-09**

City: **Avon Lake** State: **OH** Zip Code: **44025** Site Contact: **Paul Spaworth** Lab Contact: **Paul Spaworth** Analysis (Attach list if more space is needed):

Project Name and Location (State): **AWSPW-1** Carrier/Vehicle Number: **8800 5570 0014**

Contract/Purchase Order/Quote No.:

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix				Containers & Preservatives				Special Instructions/ Conditions of Receipt		
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl		NaOH	ZnAc/NaOH
AWSPW-1	4-30-09	0900			X	X	X	X	X	X	X	200g	Use 1 Chew
AWSPW-2	4-30-09	0900			X	X	X	X	X	X	X		Use 1 Chew
AWSPW-3	4-30-09	0900			X	X	X	X	X	X	X		Use 1 Chew

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Polson B Unknown Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

QC Requirements (Specify): **USE IV**

Time Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other

1. Relinquished By: **Paul Spaworth** Date: **4-30-09** Time: **1400**

2. Relinquished By: _____ Date: _____ Time: _____

3. Relinquished By: _____ Date: _____ Time: _____

Comments:

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Lot #(s): F9E010358
220149 01 5/2/09

CONDITION UPON RECEIPT FORM

Client: AWS

Quote No: 92885

COC/RFA No: 127356, 127357

363

Initiated By: DD

Date: 05-01-09

Time: 1010

Shipping Information

Shipper: FedEx UPS DHL Courier Client Other: _____ Multiple Packages: Y N

Shipping # (s):*

Sample Temperature (s):**

1. <u>8640 5570 9337</u>	6. _____	1. <u>6</u>	6. _____
2. _____	7. _____	2. _____	7. _____
3. _____	8. _____	3. _____	8. _____
4. _____	9. _____	4. _____	9. _____
5. _____	10. _____	5. _____	10. _____

*Numbered shipping lines correspond to Numbered Sample Temp lines

**Sample must be received at 4°C ± 2°C. If not, note contents below. Temperature variance does NOT affect the following: Metals-Liquid or Rad tests- Liquid or Solids

Condition (Circle "Y" for yes, "N" for no and "N/A" for not applicable):

1. <input checked="" type="radio"/> Y <input type="radio"/> N	Are there custody seals present on the cooler?	8. <input type="radio"/> Y <input checked="" type="radio"/> N	Are there custody seals present on bottles?
2. <input type="radio"/> Y <input checked="" type="radio"/> N <input type="radio"/> N/A	Do custody seals on cooler appear to be tampered with?	9. <input type="radio"/> Y <input type="radio"/> N <input checked="" type="radio"/> N/A	Do custody seals on bottles appear to be tampered with?
3. <input checked="" type="radio"/> Y <input type="radio"/> N	Were contents of cooler frisked after opening, but before unpacking?	10. <input type="radio"/> Y <input type="radio"/> N <input checked="" type="radio"/> N/A	Was sample received with proper pH? (If not, make note below)
4. <input checked="" type="radio"/> Y <input type="radio"/> N	Sample received with Chain of Custody?	11. <input checked="" type="radio"/> Y <input type="radio"/> N	Sample received in proper containers?
5. <input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/> N/A	Does the Chain of Custody match sample ID's on the container(s)?	12. <input type="radio"/> Y <input type="radio"/> N <input checked="" type="radio"/> N/A	Headspace in VOA or TOX liquid samples? (If Yes, note sample ID's below)
6. <input type="radio"/> Y <input checked="" type="radio"/> N	Was sample received broken?	13. <input type="radio"/> Y <input type="radio"/> N <input checked="" type="radio"/> N/A	Was Internal COC/Workshare received?
7. <input checked="" type="radio"/> Y <input type="radio"/> N	Is sample volume sufficient for analysis?	14. <input type="radio"/> Y <input type="radio"/> N <input checked="" type="radio"/> N/A	Was pH taken by original TestAmerica lab?

¹ For DOE-AL (Pantex, LANL, Sandia) sites, pH of ALL containers received must be verified, EXCEPT VOA, TOX and soils.

Notes:

Corrective Action:

- Client Contact Name: _____
- Sample(s) processed "as is"
- Sample(s) on hold until: _____
- Project Management Review: [Signature]

Informed by: _____

If released, notify: _____

Date: 5-7-9

THIS FORM MUST BE COMPLETED AT THE TIME THE ITEMS ARE BEING CHECKED IN. IF ANY ITEM IS COMPLETED BY SOMEONE OTHER THAN THE INITIATOR, THEN THAT PERSON IS REQUIRED TO APPLY THEIR INITIAL AND THE DATE NEXT TO THAT ITEM.

ADMIN-0004, REVISED 10/21/08 \\slsvr01\QA\FORMS\ST-LOUIS\ADMIN\Admin004 rev11.doc