

Department of Energy

Richland Operations Office P.O. Box 550 Richland, Washington 99352

August 5, 2010

Certified Mail

Mr. Alec Osenbach Heart of America Northwest 1314 NE 56th Street Suite 100 Seattle, Washington 98105

Dear Mr. Osenbach:

FREEDOM OF INFORMATION ACT REQUEST (FOI 2010-01599)

You requested, pursuant to the Freedom of Information Act (FOIA), the following information:

- 1. Documents and records relating to the potential duration of storage for soil excavated since 2009 from the Environmental Restoration Disposal Facility (ERDF) at the U.S. Department of Energy (DOE), Richland Operations Office (RL) Hanford Site.
- 2. Documents and records relating to the cost of storage for soil excavated from ERDF.
- 3. Documents and records relating to the planned uses for soil excavated from ERDF including documents and records relating to the potential use of soil excavated from ERDF for use as a cap of the nearby U.S. Ecology Washington, Inc., site.
- 4. Correspondence between RL and the State of Washington Department of Ecology concerning the use of storage of soil excavated from ERDF site (including the length of time such soil may be stored, costs, etc.).
- 5. Correspondence between DOE and the State of Washington Department of Health concerning the use of storage of soil excavated from ERDF (including the length of time such soil may be stored, costs, etc.).
- 6. Correspondence between DOE and the U.S. Ecology Washington, Inc., or any of its contractors or agents concerning the use or storage of soil excavated from ERDF.
- 7. Records relating to consideration of releases documented in investigation of releases from the U.S. Ecology Washington, Inc., landfill conducted under the authority of the State of Washington Department of Ecology or Health, including remedies for such releases.

We provided you with a partial response on July 20, 2010. This is our final response. We have conducted a thorough search and no documents were located for items 1, 2, and 7. This search was conducted by those within the agency who are most familiar with the subject matter of this request, in locations where documents would most likely be found. Specifically we searched the files of Washington Closure Hanford (WCH), DOE's Assistant Manager for River Corridor, River Corridor Closure Project, Procurement Division, and the Site Infrastructure, Services and Information Management Division.

Enclosed are documents responsive to items 3 (Enclosure I), 4 (Enclosure II), 5 (Enclosure III) and 6 (Enclosure IV) of your request. This office has made certain deletions pursuant to Exemption 5 of the FOIA. Exemption 5 shields from mandatory disclosure documents which are "inter-agency or intra-agency memorandums or letters which would not be available by law to a party other than an agency in litigation with the agency." 5 U.S.C. § 552(b)(5); 10 C.F.R. § 1004.10(b)(5). There are three traditional privileges that fall under this definition of exclusion: the attorney-client privilege, the attorney work-product privilege, and the executive "deliberative process" or "pre-decisional" privilege. For the deletions made, we are invoking the deliberative process privilege, attorney-client privilege and the attorney work product privilege.

Exemption 5 incorporates the deliberative process privilege that protects advice, recommendations, and opinions that are part of the process by which agency decisions and policies are formulated. The factors that are weighed to determine whether documents are protected by the deliberative process privilege include: (1) whether the documents are "deliberative" (i.e., whether it reflects the give-and-take of a consultative process); (2) whether the documents are so candid or personal in nature that public disclosure would stifle honest and frank communication in the future: and (3) whether the documents are recommendatory of what will become a final document.

The withheld information from the documents describes proposed strategies between government and contractor employees to enhance internal coordination in accomplishing activities involving ERDF. The documents contain: (1) negotiation positions; (2) issues and impacts associated with each, including technical, legal, applicable requirements and complex-wide policy issues: and (3) budget cost.

Material determined to be exempt from mandatory disclosure may be released if disclosure is determined to be in the public interest. We have determined the public interest is best served by non-disclosure because disclosure of this information would harm the government's ability to effectively administer ERDF activities. In addition, as the withheld information consists of proposed recommendations and strategies deliberative in nature the information is predecisional and exempt from disclosure.

Information withheld under the attorney client privilege and attorney work product privilege summarized communications between RL attorneys and their clients and was based upon expressed opinions on legal and policy matters. We have determined the information is protected from disclosure pursuant to the attorney-client and deliberative process privileges. However, material determined to be exempt from mandatory disclosure may be released if disclosure is determined to be in the public interest. We have determined the public interest is best served by non-disclosure because disclosure of this information would harm the government by tending to inhibit free pre-decisional discussion of policy issues as well as candid attorney-client discussion of legal matters.

All releasable information in the documents has been segregated and is being provided to you. The undersigned individual is responsible for this determination. You have the right to appeal to the Office of Hearings and Appeals, as provided in 10 CFR 1004.8, for any information denied to you in this letter or for the adequacy of our search. Any such appeal shall be made in writing to the following address: Director, Office of Hearings and Appeals (HG-1), U.S. Department of Energy, L'Enfant Plaza Building, 1000 Independence Avenue SW, Washington, D.C. 20585-1615, and shall be filed within 30 days after receipt of this letter. Should you choose to appeal, please provide this office with a copy of your letter.

Lastly, you requested a waiver of fees for your request. I have reviewed the information that you provided in your letter to support the request for a fee waiver and have determined that the information satisfies the criteria considered for a waiver of fees. A waiver, therefore, is appropriate for fees that may be incurred because the subject of the request relates to a government activity, and the information about the activity could lead to greater understanding above the matter by the public.

If you have any questions regarding your request, please contact me at our address above or on (509) 376-6288.

Sincerely,

Freedom of Information Act Officer

Office of Communications

and External Affairs

OCE:DCR

Enclosures

Enclosure I

From: Sent: Tuesday, July 15, 2008 8:36 AM To: Wilcox, Debra; French, Mark S; Hathaway, H B (Boyd) Cc: Franco, Jose R (Joe); Williamson, Barbara D; Dudley, John R Subject: RE: Use of ERDF Soil Data Attachments: SF-01 Proctor.xls; SF-01 Class.xls

Deb,

Soil data usually refers to the sand, silt, and clay content. I requested from WCH a listing of the data send to Michelle Mandis (see below). It consisted of soil classification and compaction data collected by the Construction Quality Assurance (CQA) contractor, Envirotech, last March (see attachments), and boring and test pit logs from the initial construction of Cells 1&2.

The soil data collected by t	ne CQA contractor (b)(5)		
(b)(5)			
•			

I hope this helps.

Thanks, Owen

From: Wilcox, Debra

Sent: Monday, July 14, 2008 4:31 PM

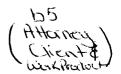
To: French, Mark S; Hathaway, H B (Boyd); Robertson, Owen Jr **Cc:** Franco, Jose R (Joe); Williamson, Barbara D; Dudley, John R

Subject: RE: Use of ERDF Soil Data

(b)(5)

Deb Wilcox Office of Chief Counsel (509) 376-3285 (509) 531-2629 (cell)

THIS EMAIL MESSAGE INCLUDES ATTORNEY WORK PRODUCT INFORMATION AND IS PRIVILEGED. DO NOT FURTHER DISTRIBUTE WITHOUT PERMISSION OF THE SENDER.



From: French, Mark S

Sent: Monday, July 14, 2008 4:27 PM

To: Hathaway, H B (Boyd); Robertson, Owen Jr

Cc: Franco, Jose R (Joe); Wilcox, Debra **Subject:** FW: Use of ERDF Soil Data

(b)(5)

Mark S. French Federal Project Director 373-9863

From: Mandis, Michelle (ECY) [mailto:MICH461@ecy.wa.gov]

Sent: Monday, July 14, 2008 3:52 PM

To: French, Mark S

Cc: Skinnarland, E R (Ron); Singleton, Deborah; Ollero, Jennifer (ECY); Robertson, Owen Jr

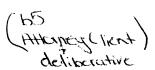
Subject: Use of ERDF Soil Data

Mark~

Ron requested that I touch base and verify that it was acceptable with USDOE to forward ERDF soils data to US Ecology personnel so that they may send it to their sub-contractor. Mr. Thom Kisenwether (373-9173) from Washington Closure sent me the data from 18 borings and several test pits.

Thanks,

Michelle



Modified Proctor (ASTM D 1557)

Client:

WCH

Address:

Tested By:

Reviewed By:

ERDF



2500 N. 11th Street | Enid, OK 73701 (580) 234-8780 1 Fax (580) 237-4302

Sample Information

Contact Name: Tom Kisenwether Project:

S66X528A00

Project Location: ERDF Cells 7-8 Date:

MF J۷ Date: 3/21/2008

3/21/2008

Sampling Date: 3/12/2008

Sample ID:

Sample Des:

Sampled By: MF

Date Received: 3/12/2008

SF-01

Test Pad Sub

Comments:

North Berm Brown Sand Mixed with Black Sand

DENSITY DATA (grams)

Mold + Wet Soil	12.98	13.16	13.28	12.81	13.29
Mold Wt.	8.71	8.71	8.71	8.71	8.71
Wet Soil	4.28	4.46	4.58	4.11	4.58
lbs/cu. ft. (wet)	128.3	133.7	137.3	123.2	137.5
lbs/cu.ft.(dry)	118.1	121.0	122.4	115.1	121.8

MOISTURE DATA (grams)

Tin No.	XIII	VI	XII	ES	E2
Wet Soil + Tin	680.73	677.92	720.96	695.10	711.30
Dry Soil + Tin	641.34	630.39	662.56	665.72	658.22
Tin Wt.	181.20	174.26	181.17	246.48	246.70
Dry Soil	460.14	456.13	481.39	419.24	411.52
% Moisture	8.6%	10.4%	12.1%	7.0%	12.9%
% Saturation	54.2%	71.8%	87.0%	40.8%	90.8%

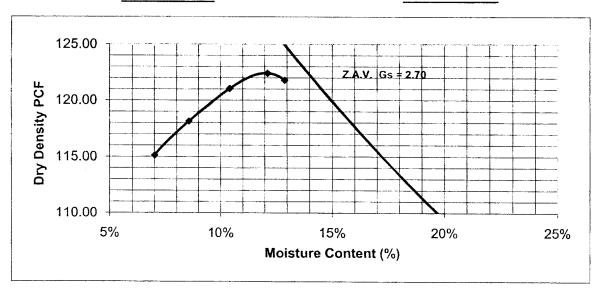
MAXIMUM DRY DENSITY (PCF)

122.4

OPTIMUM MOISTURE CONTENT (%)

12.1%

Date



Envirotech

SOIL CLASSIFICATION (ASTM D-2487)

Client:

WCH

Address:

ERDF



2500 N. 11th Street | Enid, OK | 73701 (580) 234-8780 | Fax (580) 237-4302

Sample Information

Contact Name:	Tom Kise	nwether		Sample ID:	SF-01
Project:	S66X528/	400		Sample Des:	Test Pad Sub. Brw and Blk sand
Project Location	n: ERDF Ce	lls 7-8		Sampling Date:	3/12/2008
Tested By:	MF	Date:	3/20/2008	Sampled By:	MF
Reviewed By:	JV	Date:	3/21/2008	Date Received:	3/12/2008

Natural Moisture Content

Natural Moisture	N/A

Atterberg Limits Test Results (ASTM D-4318)

Flow Index	0	Spec
Liquid Limit	N/A	
Plastic Limit	N/A	
Plasticity Index	N/A	

Particle Size Anaylsis (ASTM D-422) 200 Wash Sieve Analysis (ASTM D-1140)

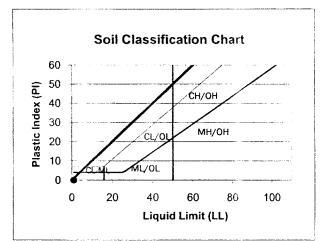
		,	
Sieve No	Sieve Opening	% Passing	Spec
1 1/2 "	37.500	100.0	
1 "	25.000	100.0	
3/4 "	19.000	100.0	
3/8 "	9.500	96.0	
No.4	4.750	94.4	
No. 10	2.000	90.2	
No. 40	0.425	26.1	
No. 200	0.075	7.3	

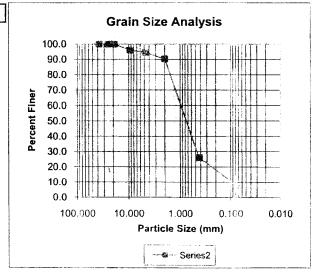
Cu	10.56
Cc	2.47

Unified Soil Classification (ASTM D-2487)

SW: Well Graded Sand

Deviations from ASTM: None





Envirotech	1	
Date		

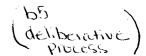
Crider, Tara	
From: Sent: To: Subject: Attachments:	Mercado, Renato S Tuesday, July 13, 2010 9:55 AM Mercado, Renato S FW: Soils to support DOH Cap at US Ecology FW: ERDF Soil to Washington State/US Ecloogy
L	21, 2008 1:08 PM
Joe,	
other Subject Matter	re is the information you requested. I tried to be comprehensive. Much of what we do interfaces with Experts/site requirements. I listed the point-of-contacts below for other processes that we depend or ng action. These folks were on your original message below and should be providing you with processes.
Attached is my emai	I I sent earlier. (b)(5)
(b)(5) (b)(5)	The same form and process outlined below can be used for both items #1 and #2 below.
(1) RL Program(s) p government - RL Ma	rovides Rene Mercado with justification that the soil at ERDF is excess to the needs of the inagements responsibility.
(2) Soil meets the reprocess.	quirements for radiological release per DOE Order 5400.1B - Wayne Glines responsibility and
that an ecological re	v process is completed - Dana Ward responsibility and process. For ERDF, the project file would note view was considered, but not required since the soil being removed is spoils for operations and would mpact to habitat. Schedule duration for this activity is none. However, for a new pit, time would be ecological review.

- (4) Cultural review process is completed Annabelle Rodriquez responsibility and process.
- (5) NEPA process is completed and documented Woody Russell responsibility and process.

(6) Rene will need to (b)(5)	 		
(b)(5)			

- (7) The excess form (SF-122) would need to be completed by the State and return for Rene's and my signature. Requested information for the form includes units, quantity and estimated value of the dirt. A copy of the form can be obtained at http://contacts.gsa.gov/webforms.nsf/0/DACB98B18C9F8C1F85256A3E0064652D/\$file/sf122.pdf
- (8) Once the State signs and returns the form and items 1-4 above are completed, we should be able to return the approved form/agreement via letter to State in 5-working days.

Please call if you have questions or need clarification.



H. Boyd Hathaway, Realty Officer
U.S. Department of Energy
P.O. Box 550; MS A3-04
825 Jadwin Avenue
Richland, Washington 99352
Ph:509-376-7340 Cell:509-531-7881 Fax:509-376-1466

From: Franco, Jose R (Joe)

Sent: Wednesday, July 16, 2008 1:21 PM

To: Williamson, Barbara D; Payne, James D; Hathaway, H B (Boyd); Russell, Woody; Burandt, Mary E; Leary, Kevin D; Rodriguez, Annabelle L; Dudley, John R; Mercado, Renato S; French, Mark S; Robertson, Owen Jr; Glines, Wayne M;

Wilcox, Debra; Romine, Larry D; Veitenheimer, S J (Steve)
Cc: McCormick, Matthew S; Flynn, Karen L; Bryson, Dana C

Subject: Soils to support DOH Cap at US Ecology

Helio Everyone	
(b)(5)	
	;

As you know we are working with the Washington Department of Health and Ecology on soils needed for the landfill US Ecology is running. I have a commitment to provide a response to a letter by the August 4th timeframe so I would need your information by July 25th if possible. Please send me and Jim Payne your information as Jim is going to try to put it in a schedule format for me.

What I would like help from you on is the following:

l need a (b)(5)		
l need a (b)(5) (b)(5)		
1) (b)(5)		
2)		
(b)(5)		

Any questions shoot me and email or call 376-6628 or 376-4343. Some examples of what I expect are :

- Identification of scope 3 to 5 days project completion of Form Cultural resources request review
- Form Cultural resources request review 3 to 5 days
- Decision to perform a full cultural review 60 90 days
- SHPO and Tribes 30 day review

deliberature processi and alterney client

AMRC

To: Cc: Subject:	Monday, July 21, 2008 1:08 PM Franco, Jose R (Joe) Payne, James D; Hathaway, H B (Boyd); Mercado, Renato S; Veitenheimer, S J (Steve); Frey, Jeffrey A; Flynn, Karen L RE: Soils to support DOH Cap at US Ecology FW: ERDF Soil to Washington State/US Ecloogy
Cc: Subject: Attachments:	Payne, James D; Hathaway, H B (Boyd); Mercado, Renato S; Veitenheimer, S J (Steve); Frey, Jeffrey A; Flynn, Karen L RE: Soils to support DOH Cap at US Ecology
Subject: Attachments:	(Steve); Frey, Jeffrey A; Flynn, Karen L RE: Soils to support DOH Cap at US Ecology
Attachments:	
	FW: ERDF Soil to Washington State/US Ecloogy
loe	
JUG,	
do interfaces with other processes t	here is the information you requested. I tried to be comprehensive. Much of what we other Subject Matter Experts/site requirements. I listed the point-of-contacts below for hat we depend on prior to Property taking action. These folks were on your original and should be providing you with information on their processes.
Attached is my er	nail I sent earlier. (b)(5)
b)(5) b)(5)	The same form and process outlined below
	oth items #1 and #2 below.
) provides Rene Mercado with justification that the soil at ERDF is excess to the needs t - RL Managements responsibility.
(2) Soil meets the esponsibility and	requirements for radiological release per DOE Order 5400.1B - Wayne Glines process.
project file would removed is spoils	iew process is completed - Dana Ward responsibility and process. For ERDF, the note that an ecological review was considered, but not required since the soil being for operations and would not have additional impact to habitat. Schedule duration for e. However, for a new pit, time would be needed for a formal ecological review.
(4) Cultural reviev	process is completed - Annabelle Rodriquez responsibility and process.
5) NEPA process	is completed and documented - Woody Russell responsibility and process.
(6) Rene will need	I to (b)(5)
(, , , , , , , , , , , , , , , , , , ,	

http://contacts.gsa.gov/webforms.nsf/0/DACB98B18C9F8C1F85256A3E0064652D/\$file/sf122.pdf

(8) Once the State signs and returns the form and items 1-4 above are completed, we should be able to

Please call if you have questions or need clarification.

return the approved form/agreement via letter to State in 5-working days.

copy of the form can be obtained at

(deliberative)

H. Boyd Hathaway, Realty Officer
U.S. Department of Energy
P.O. Box 550; MS A3-04
825 Jadwin Avenue
Richland, Washington 99352
Ph:509-376-7340 Cell:509-531-7881 Fax:509-376-1466

From: Franco, Jose R (Joe)

Sent: Wednesday, July 16, 2008 1:21 PM

To: Williamson, Barbara D; Payne, James D; Hathaway, H B (Boyd); Russell, Woody; Burandt, Mary E; Leary, Kevin D; Rodriguez, Annabelle L; Dudley, John R; Mercado, Renato S; French, Mark S; Robertson,

Owen Jr; Glines, Wayne M; Wilcox, Debra; Romine, Larry D; Veitenheimer, S J (Steve)

Cc: McCormick, Matthew S; Flynn, Karen L; Bryson, Dana C

Subject: Soils to support DOH Cap at US Ecology

Hello Everyone

(b)(5)

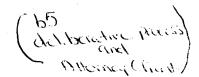
As you know we are working with the Washington Department of Health and Ecology on soils needed for the landfill US Ecology is running. I have a commitment to provide a response to a letter by the August 4th timeframe so I would need your information by July 25th if possible. Please send me and Jim Payne your information as Jim is going to try to put it in a schedule format for me.

What I would like help from you on is the following:

l need a (b)(5) (b)(5)	!
1) (b)(5)	
2)	
(b)(5)	

Any questions shoot me and email or call 376-6628 or 376-4343. Some examples of what I expect are :

- Identification of scope 3 to 5 days project completion of Form Cultural resources request review
- Form Cultural resources request review 3 to 5 days
- Decision to perform a full cultural review 60 90 days
- SHPO and Tribes 30 day review



Joe Franco AMRC

Crider, Tara	
From: Sent: To: Subject:	Mercado, Renato S Tuesday, July 13, 2010 10:00 AM Mercado, Renato S FW: ERDF Soil to Washington State/US Ecloogy
Cc: Wilcox, Debra; I Guercia, Rudolph F	
Boyd, (b)(5)	
Woody Russell	
DOE-RL/ORP NEPA U.S. Department of P.O. Box 450, MSIN Richland, WA 99352 Ph: 509-373-5227	N H6-60 2
Woody Russell@or	
Cc: Hathaway, H B	

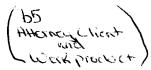
Requirements:

(b)(5)

• Dug up dirt would be treated as federal personal property.

Subject: ERDF Soil to Washington State/US Ecloogy

DOE Order 5400.5 Radiological Release of Property is required. Wayne Glines has a release process for personal property. He too considers dirt to be personal property. The release requirements would be less restrictive if controls were put in place to ensure the soil remained onsite and not transported offsite. Otherwise stringent and costly radiological reviews would be required to release the soil. This stringent requirement could be exempted only if a guarantee could be made that soil would remain onsite.



- The recipient of the soil would be to the State of Washington (WA). This is consistent with the contractual relationship via lease with the State for their barrel site. U.S. Ecology is the states subcontractor.
- RL Program (AMRC) is responsible to send Rene Mercado an email that the dirt has been excessed and is environmentally clean for release (Wayne Glines process for radiological release).
- Rene Mercado is the sites Organization Property Manager Officer (OPMO) and can donate the dirt to State US
 Ecology using the SF-122 Form (Transfer Order Excess Personal Property). His authority is the Atomic Energy
 Act for this. Rene can add "terms and conditions" to the GSA SF-122 Form, such requiring the soil to remain
 onsite and providing indemnity to the government.
- WA Ecology Property Officer would need to complete and sign to the GSA SF-122 Form (Transfer Order Excess Personal Property) agreeing to its terms and conditions. WA Ecology would submit the completed form to Rene Mercado for signature and release of the property. Requested information for the form includes units, quantity and estimated value of the dirt. A copy of the form can be obtained at http://contacts.gsa.gov/webforms.nsf/0/DACB98B18C9F8C1F85256A3E0064652D/\$file/sf122.pdf
- NEPA documentation needs to be completed.
- Rene would provide the approved SF-122 Form back to the WA for their records.
- WA Ecology/US Ecology (receiver of donation) is responsible for shipment of donated property.

There were concerns regarding the following:

- Radiological release of soil. See second bullet above. Controls are needed to ensure soil would stay onsite
 during transportation from ERDF by the state's contractor. Terms and conditions can be placed on the donation
 form, so that soil would remain onsite and not transported off the Hanford Site. Other onsite monitoring activities
 may be required to guarantee that soil is not transported offsite.
- Indemnity of DOE's liability if any soil is "illegally" transported offsite by the state's contractor. Adding terms and
 conditions to the SF 122 form could provide the necessary indemnity to hold the government harmless for all
 activities by the state's contractor.

Please call if you have questions.

Thanks You.

H. Boyd Hathaway, Realty Officer U.S. Department of Energy P.O. Box 550; MS A3-04 825 Jadwin Avenue Richland, Washington 99352 Ph:509-376-7340 Cell:509-531-7881 Fax:509-376-1466

Hathaway, H B (Boyd)

From:

Hathaway, H B (Boyd)

Sent:

Tuesday, July 08, 2008 9:17 AM

To:

French, Mark S

Subject: FW: ERDF Soil to Washington State/US Ecloogy

FYI

H. Boyd Hathaway, Realty Officer U.S. Department of Energy P.O. Box 550; MS A3-04 825 Jadwin Avenue Richland, Washington 99352

Ph:509-376-7340 Cell:509-531-7881 Fax:509-376-1466

From: Russell, Woody

Sent: Monday, July 07, 2008 8:34 AM

To: Hathaway, H B (Boyd); Franco, Jose R (Joe); Smith, Douglas C (Chris)

Cc: Wilcox, Debra; Dudley, John R; Myers, John D; Williamson, Barbara D; Mercado, Renato S; Glines,

Wayne M; Guercia, Rudolph F (Rudy); Veitenheimer, S J (Steve); Frey, Jeffrey A; Flynn, Karen L

Subject: RE: ERDF Soil to Washington State/US Ecloogy

Boyd, (b)(5)

Woody Russell DOE-RL/ORP NEPA Compliance Officer U.S. Department of Energy P.O. Box 450, MSIN H6-60 Richland, WA 99352 Ph: 509-373-5227 Cell: 509-438-6762

Woody Russell@orp.doe.gov

From: Hathaway, H B (Boyd)

Sent: Tuesday, July 01, 2008 9:41 AM

To: Franco, Jose R (Joe); Smith, Douglas C (Chris)

Cc: Hathaway, H B (Boyd); Russell, Woody; Wilcox, Debra; Dudley, John R; Myers, John D; Williamson, Barbara D; Mercado, Renato S; Glines, Wayne M; Guercia, Rudolph F (Rudy); Veitenheimer, S J (Steve);

Frey, Jeffrey A; Flynn, Karen L

Subject: ERDF Soil to Washington State/US Ecloogy

65 Allowing Chient

(b)(5)		
		1
		1
		-

Requirements:

- Dug up dirt would be treated as federal personal property.
- DOE Order 5400.5 Radiological Release of Property is required. Wayne Glines has a release
 process for personal property. He too considers dirt to be personal property. The release
 requirements would be less restrictive if controls were put in place to ensure the soil remained
 onsite and not transported offsite. Otherwise stringent and costly radiological reviews would be
 required to release the soil. This stringent requirement could be exempted only if a guarantee
 could be made that soil would remain onsite.
- The recipient of the soil would be to the State of Washington (WA). This is consistent with the
 contractual relationship via lease with the State for their barrel site. U.S. Ecology is the states
 subcontractor.
- RL Program (AMRC) is responsible to send Rene Mercado an email that the dirt has been excessed and is environmentally clean for release (Wayne Glines process for radiological release).
- Rene Mercado is the sites Organization Property Manager Officer (OPMO) and can donate the dirt
 to State US Ecology using the SF-122 Form (Transfer Order Excess Personal Property). His
 authority is the Atomic Energy Act for this. Rene can add "terms and conditions" to the GSA SF122 Form, such requiring the soil to remain onsite and providing indemnity to the government.
- WA Ecology Property Officer would need to complete and sign to the GSA SF-122 Form (Transfer Order Excess Personal Property) agreeing to its terms and conditions. WA Ecology would submit the completed form to Rene Mercado for signature and release of the property. Requested information for the form includes units, quantity and estimated value of the dirt. A copy of the form can be obtained at
 - http://contacts.gsa.gov/webforms.nsf/0/DACB98B18C9F8C1F85256A3E0064652D/\$file/sf122.pdf
- NEPA documentation needs to be completed.
- Rene would provide the approved SF-122 Form back to the WA for their records.
- WA Ecology/US Ecology (receiver of donation) is responsible for shipment of donated property.

There were concerns regarding the following:

- Radiological release of soil. See second bullet above. Controls are needed to ensure soil would stay onsite during transportation from ERDF by the state's contractor. Terms and conditions can be placed on the donation form, so that soil would remain onsite and not transported off the Hanford Site. Other onsite monitoring activities may be required to guarantee that soil is not transported offsite.
- Indemnity of DOE's liability if any soil is "illegally" transported offsite by the state's contractor.
 Adding terms and conditions to the SF 122 form could provide the necessary indemnity to hold the government harmless for all activities by the state's contractor.

(65 Atterney Chent) Chenty Wax product Please call if you have questions.

Thanks You.

H. Boyd Hathaway, Realty Officer
U.S. Department of Energy
P.O. Box 550; MS A3-04
825 Jadwin Avenue
Richland, Washington 99352
Ph:509-376-7340 Cell:509-531-7881 Fax:509-376-1466

Riehle, Dorothy

From:

Rodriguez, Annabelle L

Sent:

Thursday, October 02, 2008 4:02 PM Franco, Jose R (Joe); Robertson, Owen Jr

To: Cc:

Rodriguez, Annabelle L

Subject: Attachments: FW: Soils to support DOH Cap at US Ecology ERDF NPCE.pdf; CRR DOE Flow Chrt.xls

Joe,

See comment #1 below and the attached PDF file. The cultural review (No Potential to Cause Effect) done in 2007 should still be good for this project.

Annabelle

From: Rodriguez, Annabelle L

Sent: Monday, July 21, 2008 11:39 AM **To:** Franco, Jose R (Joe); Payne, James D

Cc: Russell, Woody; Rodriguez, Annabelle L; Wilcox, Debra **Subject:** FW: Soils to support DOH Cap at US Ecology

Hi Joe.

See my responses below. If you need other information please call me.

Annabelle

- 1) A cultural resource review (CRR) was done in September 2007 for the expansion of ERDF cells 7,8,9,10 (see attached CRR). This CRR is called a "No Potential to Cause Efect". This means it took place in a previously distrubed area and was not located near any archaeological sites. The cultural and biological clearance for this was approximaly 10 working days. Based on this review, I do not believe we would have to do another for DOH to truck the soil from ERDF to US Ecology.
- 2) A new borrow pit <u>may</u> require, at a minimum, a NEPA Enviornmental Assessment (confirmed by Woody Russell, NEPA Compline Officer). A full CRR will most likely result from this. I am attaching a Flow chart that will give you an idea of the timeline (a minimum of 90 days should be planned for). If an area is selected that <u>could potentially</u> affect archaeological sites, a Memorandum of Agreement will need to be entered into (between DOE and the Washington State Department of Archaeology and Historic Preservation, and possibly Tribes) this would add additional time to the schedule.

Some things to consider if #2 is selected: Projects/ US Ecology should present this to the Tribes as early in the planning stages as possible. Working with Tribes early on an acceptable location would be a tremendous benefit.

Tribes have concerns when the subject of using/expanding exisiting borrow pits comes up.

From: Franco, Jose R (Joe)

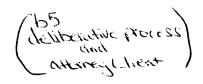
Sent: Wednesday, July 16, 2008 1:21 PM

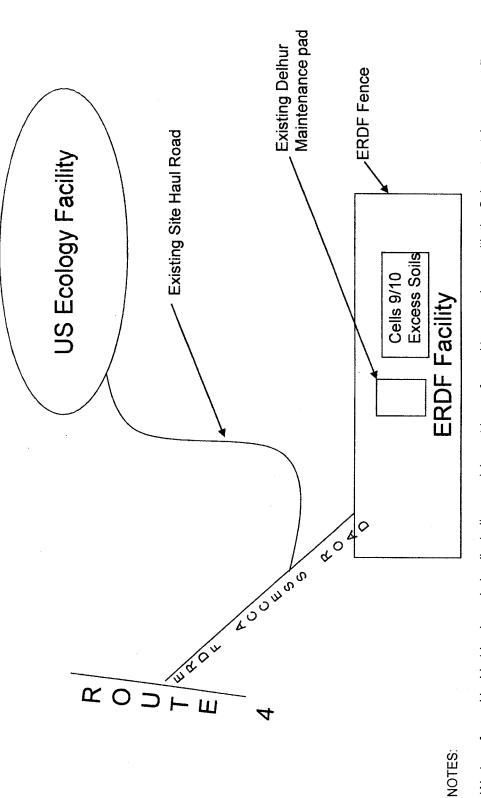
To: Williamson, Barbara D; Payne, James D; Hathaway, H B (Boyd); Russell, Woody; Burandt, Mary E; Leary, Kevin D; Rodriguez, Annabelle L; Dudley, John R; Mercado, Renato S; French, Mark S; Robertson, Owen Jr; Glines, Wayne M;

Wilcox, Debra; Romine, Larry D; Veitenheimer, S J (Steve)
Cc: McCormick, Matthew S; Flynn, Karen L; Bryson, Dana C

Subject: Soils to support DOH Cap at US Ecology

Hello Everyone	
(b)(5)	
As you know we are working with the Washington Department of Health and Ecology on soils needed Ecology is running. I have a commitment to provide a response to a letter by the August 4th timefraction by July 25th if possible. Please send me and Jim Payne your information as Jim is a schedule format for me.	ame so I would need
What I would like help from you on is the following:	
I need a (b)(5) (b)(5)	
1) (b)(5)	
2)	
(b)(5)	
Any questions shoot me and email or call 376-6628 or 376-4343. Some examples of what I expect are :	
 Identification of scope - 3 to 5 days project completion of Form Cultural resources request references. Form Cultural resources request review - 3 to 5 days. Decision to perform a full cultural review - 60 - 90 days. SHPO and Tribes 30 day review. 	eview
Joe Franco AMRC	





Work performed inside blue boundaries (including roads) must be performed in accordance with the Subcontract Agreement Documents.

Work control and incident reporting inside blue boundary (inside ERDF fence) will be the responsibility of WCH.

Work performed inside black boundary shall be performed in accordance with US Ecology requirements.

Work control and incident reporting outside blue boundary (outside the ERDF fence) will be the responsibility of US Ecology.

WASHINGTON CLOSURE HANFORD LLC NO COST SERVICES SUBCONTRACT Attachment 1 Demarcation of Responsibilities

Rodriguez, Annabelle L

From:

Rodriguez, Annabelle L

Sent:

Tuesday, September 04, 2007 7:32 AM

To:

Marceau, Thomas E

Cc: Subject: Gano, Kenneth A (Ken); Sharpe, Jim J; Weiss, Elizabeth M; Rodriguez, Annabelle L FW: ERDF Expansion: Construction of Cells 7, 8, 9, and 10 (NPE # 2007-600-007a)

Attachments:

review of cultural resources.doc

Based on the information provided, I have determined the proposed activity has no potential to cause effects on historic properties.

You may notify the projects they may proceed.

Annabelle Rodriguez

U.S. DOE

Cultural and Historic Resource Program

From:

Marceau, Thomas E [mailto:TEMARCEA@wch-rcc.com]

Sent:

Tuesday, September 04, 2007 6:38 AM

To:

Rodriquez, Annabelle L

Cc:

Gano, Kenneth A (Ken); Sharpe, Jim J; Weiss, Elizabeth M

Subject:

ERDF Expansion: Construction of Cells 7, 8, 9, and 10 (NPE # 2007-600-007a)

Do you concur that this project is the type of activity that has no potential to cause effects on historic properties?

Project: ERDF Expansion: Construction of Cells 7, 8, 9, and 10 (NPE # 2007-600-007a)

Activity: Clear, grub, and construct ERDF Cells 7 through 10 and support areas

The project plans to clear, grub, and construct four new disposal cells at ERDF (see *Hanford Site Atlas*, page 129). All blading and grubbing will be accomplished using mechanical equipment. All activities will take place within the ERDF boundary fence. The project area has been surveyed previously for cultural resources. Cultural resource inventories completed in and around the project area include: HCRC # 92-600-030, 93-200-001, 93-600-005, 93-600-038, and 94-600-040. These inventories recorded no sites in the project area, and non are expected. Given this location and the absence of sites, we believe that this project is not the type with the potential to cause effects to historic properties.

[NOTE: This request supersedes NPE # 2007-600-007 dated November 30, 2006 and approved by RL on December 5, 2006. That request cleared construction for ERDF Cells 7 and 8 but was placed on hold until plans for Cells 9 and 10 were developed.]

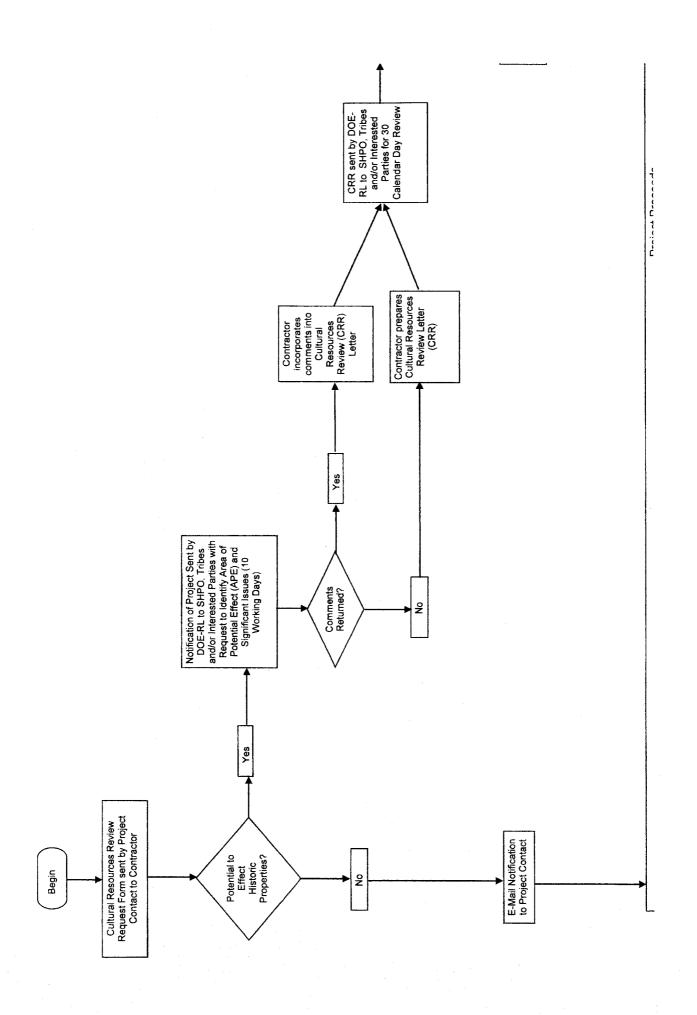
Thank you,

Tom Marceau

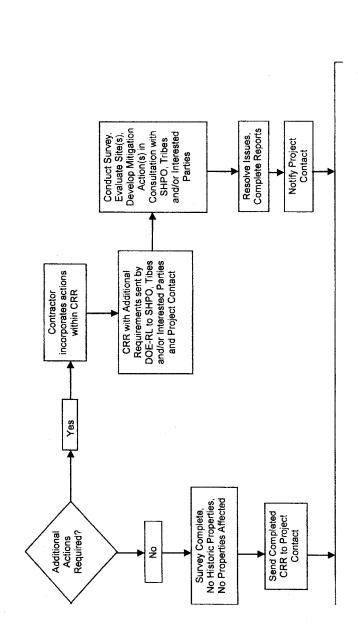
WCH Cultural Resources Supervisor

國

review of cultural resources.d...



Document found in this format - Best Available Copy



Document found in this format -Best Available Copy

QUESTIONS FOR ERDF SOILS MEETING, MARCH 27, 2009 (b)(5) 1. 2. 3. 4. (b)(5)

From: Sent: To: Subject:	Mercado, Renato S Tuesday, July 13, 2010 9: Mercado, Renato S FW: Soils to support DOH			
Woody; Burandt, Mary E Wilcox, Debra; Veitenhei Cc: McCormick, Matthew	Franco, Jose R (Joe); William; Rodriguez, Annabelle L; Dud	nson, Barbara D; Payne, James Iley, John R; Mercado, Renato S ana C; Holten, Richard A	D; Hathaway, H B S; French, Mark S;	(Boyd); Russell, Glines, Wayne M;
(b)(5) (b)(5) have even had limited di	Scussions on this topic with a	(b)(5) few WA Dept. of Ecology perso	20000 (b)(5)	In addition, we
(b)(5)	scussions on this topic with a	Tew WA Dept. of Ecology perso	onnel (b)(5)	
(b)(5)				
(b)(5) •				
(b)(5)				

Kevin D. Leary-U-Plant Zone Closure/IS-1 Technical Lead

deliberative process and

Crider, Tara

Certified Professional Soil Scientist/Hydrogeologist/Hydrologist

(509)-373-7285 (p) (509)-372-1926 (fax)

E-Mail: kevin_d_leary@rl.gov

"The only thing necessary for the triumph of evil is for good men to do nothing." --Sir Edmund Burke

If you do the same thing over and over again, you cannot ever expect a different outcome." --Albert Einstein"

From: Robertson, Owen Jr

Sent: Monday, July 21, 2008 1:44 PM

To: Franco, Jose R (Joe); Williamson, Barbara D; Payne, James D; Hathaway, H B (Boyd); Russell, Woody; Burandt, Mary E; Leary, Kevin D; Rodriguez, Annabelle L; Dudley, John R; Mercado, Renato S; French, Mark S; Glines, Wayne M; Wilcox,

Debra; Romine, Larry D; Veitenheimer, S J (Steve)

Cc: McCormick, Matthew S; Flynn, Karen L; Bryson, Dana C Subject: RE: Soils to support DOH Cap at US Ecology

Joe.

The only soil available to DOH that would represent a cost savings to DOE is the soil pile that will require removal before we can began construction of cells 9&10. This soil is from a previous excavation and has already been through a Cultural Resource review and other NEPA coverage under the ERDF ROD and its Amendments.

The actual excavation of Cells 9&10 will require a ROD Amendment and, as with previous Amendments, an update to the Mitigation Action Plan will be required. If US Ecology removed this soil, it could save DOE \$2 million or more in the construction of these cells. There is no benefit that I know of to use an alternate site to supply this soil.

The preparation of the ROD Amendment is scheduled to start in October 2008 and be completed in July 2009. Construction of Cells 9&10 is scheduled to begin in January 2011 and be completed in 2012.

One other comment, an ERDF soil balance for cells 1-10 shows us with an excess of 1,058,987 cubic yards.

Thanks. Owen

From: Franco, Jose R (Joe)

Sent: Wednesday, July 16, 2008 1:21 PM

To: Williamson, Barbara D; Payne, James D; Hathaway, H B (Boyd); Russell, Woody; Burandt, Mary E; Leary, Kevin D; Rodriguez, Annabelle L; Dudley, John R; Mercado, Renato S; French, Mark S; Robertson, Owen Jr; Glines, Wayne M;

Wilcox, Debra; Romine, Larry D; Veitenheimer, S J (Steve) Cc: McCormick, Matthew S; Flynn, Karen L; Bryson, Dana C

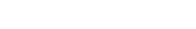
Subject: Soils to support DOH Cap at US Ecology

Hello Everyone

(b)(5)

As you know we are working with the Washington Department of Health and Ecology on soils needed for the landfill US Ecology is running. I have a commitment to provide a response to a letter by the August 4th timeframe so I would need your information by July 25th if possible. Please send me and Jim Payne your information as Jim is going to try to put it in a schedule format for me. deliberative

2



What I would like help from you on is the following:

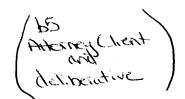
I need a (b)(5) (b)(5)	
1) (b)(5)	
2)	
(b)(5)	

Any questions shoot me and email or call 376-6628 or 376-4343.

Some examples of what I expect are:

- Identification of scope 3 to 5 days project completion of Form Cultural resources request review
- Form Cultural resources request review 3 to 5 days
- Decision to perform a full cultural review 60 90 days
- SHPO and Tribes 30 day review

Joe Franco AMRC



French, Mark			
From: Sent: To:	Leary, Kevin D Friday, July 25, 2008 11:20 AM Robertson, Owen Jr; Franco, Jose R (Joe); Williamson, Barbara D; Payne, James D; Hathaway, H B (Boyd); Russell, Woody; Burandt, Mary E; Rodriguez, Annabelle L; Dudley, John R; Mercado, Renato S; French, Mark S; Glines, Wayne M; Wilcox, Debra; Veitenheimer, S J (Steve) McCormick, Matthew S; Flynn, Karen L; Bryson, Dana C; Holten, Richard A RE: Soils to support DOH Cap at US Ecology		
Cc: Subject:			
(b)(5)			
(b)(5)			
(b)(5) have even had lim (b)(5)	ited discussions on this topic with a few WA Dept. of Ecology personnel. (b)(5)	In addition, we	
(b)(5)			
(b)(5)			
(b)(5)			
Kevin D. Leary- <i>u-P</i>	lant Zone Closure/IS-1 Technical Lead		
U.S. Dept. of Energy-Ric	ihland		
Certified Professional So	il Scientist/Hydrogeologist/Hydrologist		
(509)-373-7285 (p) (509)-372-1926 (fax)		

deliberative and Arterney Client

E-Mail: kevin_d_leary@rl.gov

"The only thing necessary for the triumph of evil is for good men to do nothing." -- Sir Edmund Burke

"If you do the same thing over and over again, you cannot ever expect a different outcome." --Albert Einstein

From: Robertson, Owen Jr

Sent: Monday, July 21, 2008 1:44 PM

To: Franco, Jose R (Joe); Williamson, Barbara D; Payne, James D; Hathaway, H B (Boyd); Russell, Woody; Burandt, Mary E; Leary, Kevin D; Rodriguez, Annabelle L; Dudley, John R; Mercado, Renato S; French, Mark S; Glines, Wayne M; Wilcox,

Debra; Romine, Larry D; Veitenheimer, S J (Steve)

Cc: McCormick, Matthew S; Flynn, Karen L; Bryson, Dana C **Subject:** RE: Soils to support DOH Cap at US Ecology

Joe.

The only soil available to DOH that would represent a cost savings to DOE is the soil pile that will require removal before we can began construction of cells 9&10. This soil is from a previous excavation and has already been through a Cultural Resource review and other NEPA coverage under the ERDF ROD and its Amendments.

The actual excavation of Cells 9&10 will require a ROD Amendment and, as with previous Amendments, an update to the Mitigation Action Plan will be required. If US Ecology removed this soil, it could save DOE \$2 million or more in the construction of these cells. There is no benefit that I know of to use an alternate site to supply this soil.

The preparation of the ROD Amendment is scheduled to start in October 2008 and be completed in July 2009. Construction of Cells 9&10 is scheduled to begin in January 2011 and be completed in 2012.

One other comment, an ERDF soil balance for cells 1-10 shows us with an excess of 1,058,987 cubic yards.

Thanks, Owen

From: Franco, Jose R (Joe)

Sent: Wednesday, July 16, 2008 1:21 PM

To: Williamson, Barbara D; Payne, James D; Hathaway, H B (Boyd); Russell, Woody; Burandt, Mary E; Leary, Kevin D; Rodriguez, Annabelle L; Dudley, John R; Mercado, Renato S; French, Mark S; Robertson, Owen Jr; Glines, Wayne M;

Wilcox, Debra; Romine, Larry D; Veitenheimer, S J (Steve)
Cc: McCormick, Matthew S; Flynn, Karen L; Bryson, Dana C

Subject: Soils to support DOH Cap at US Ecology

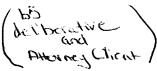
Hello Everyone

(b)(5)			

As you know we are working with the Washington Department of Health and Ecology on soils needed for the landfill US Ecology is running. I have a commitment to provide a response to a letter by the August 4th timeframe so I would need your information by July 25th if possible. Please send me and Jim Payne your information as Jim is going to try to put it in a schedule format for me.

What I would like help from you on is the following:

I need a lis	t (b)(5)	 	
(b)(5)		 	

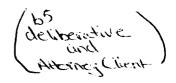


1)	(b)(5)		
		! !	
2)			
2)			
(b)(5	5)		

Any questions shoot me and email or call 376-6628 or 376-4343. Some examples of what I expect are :

- Identification of scope 3 to 5 days project completion of Form Cultural resources request review
- Form Cultural resources request review 3 to 5 days
- Decision to perform a full cultural review 60 90 days
- SHPO and Tribes 30 day review

Joe Franco AMRC



French, Mark

From:

Leary, Kevin D

Sent:

Monday, July 21, 2008 8:11 AM

To: Cc: French, Mark S Leary, Kevin D

Subject:

RE: barriers/caps

(b)(5)

Kevin D. Leary-U-Plant ZoneClosure/IS-1 Technical Lead

U.S. Dept. of Energy-Richland

Certified Professional Soil Scientist/Hydrogeologist/Hydrologist

(509)-373-7285 (p) (509)-372-1926 (fax)

E-Mail: kevin d leary@rl.gov

"The only thing necessary for the triumph of evil is for good men to do nothing." -- Sir Edmund Burke

"If you do the same thing over and over again, you cannot ever expect a different outcome." -- Albert Einstein

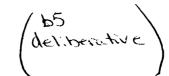
From: French, Mark S

Sent: Wednesday, July 16, 2008 4:23 PM

To: Leary, Kevin D **Subject:** barriers/caps

(b)(5)

Mark S. French Federal Project Director 373-9863



Crider, Tara

From:

Mercado, Renato S

Sent:

Tuesday, July 13, 2010 9:54 AM

To:

Mercado, Renato S

Subject:

FW: Soils to support DOH Cap at US Ecology

From: Hathaway, H B (Boyd)

Sent: Friday, August 22, 2008 9:00 AM **To:** Wilcox, Debra; Franco, Jose R (Joe)

Cc: Carosino, Robert M; Russell, Woody; Hathaway, H B (Boyd); Mercado, Renato S

Subject: RE: Soils to support DOH Cap at US Ecology

Clarification: We will be using the Atomic Energy Act as the authority using a GSA from and addendum to add other requirements to document the transfer of personal property.

H. Boyd Hathaway, Realty Officer U.S. Department of Energy P.O. Box 550; MS A3-04 825 Jadwin Avenue Richland, Washington 99352

Ph:509-376-7340 Cell:509-531-7881 Fax:509-376-1466

From: Wilcox, Debra

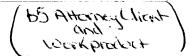
Sent: Monday, August 18, 2008 10:30 AM

To: Franco, Jose R (Joe)

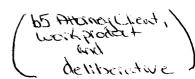
Cc: Carosino, Robert M; Russell, Woody; Hathaway, H B (Boyd)

Subject: RE: Soils to support DOH Cap at US Ecology

(b)(5)



(b)(5)
Deb Wilcox Office of Chief Counsel (509) 376-3285 (Main Office) (509) 531-2629 (Personal Cell) (509) 372-7778 (Satellite Office) This E-mail message contains Attorney Work Product information and is privileged under the Freedom of Information Act 5 USC Sec. 552(b). Do not distribute without sender's permission.
From: Franco, Jose R (Joe)
Sent: Thursday, August 14, 2008 4:57 PM To: Franco, Jose R (Joe); Williamson, Barbara D; Hathaway, H B (Boyd); Russell, Woody; Burandt, Mary E; Leary, Kevin D; Rodriguez, Annabelle L; Dudley, John R; Mercado, Renato S; French, Mark S; Robertson, Owen Jr; Glines, Wayne M; Wilcox, Debra; Romine, Larry D; Veitenheimer, S J (Steve) Cc: McCormick, Matthew S; Flynn, Karen L; Bryson, Dana C Subject: RE: Soils to support DOH Cap at US Ecology
Here is what we have in our draft schedule as the process of getting the soils to DOH. This is a draft and it has some assumptions built in but I feel confident in what we are submitting. Any questions or comments please give me a call or email.
Joe
From: Franco, Jose R (Joe) Sent: Wednesday, July 16, 2008 1:21 PM To: Williamson, Barbara D; Payne, James D; Hathaway, H B (Boyd); Russell, Woody; Burandt, Mary E; Leary, Kevin D; Rodriguez, Annabelle L; Dudley, John R; Mercado, Renato S; French, Mark S; Robertson, Owen Jr; Glines, Wayne M; Wilcox, Debra; Romine, Larry D; Veitenheimer, S J (Steve) Cc: McCormick, Matthew S; Flynn, Karen L; Bryson, Dana C Subject: Soils to support DOH Cap at US Ecology
Hello Everyone
(b)(5)



As you know we are working with the Washington Department of Health and Ecology on soils needed for the landfill US Ecology is running. I have a commitment to provide a response to a letter by the August 4th timeframe so I would need your information by July 25th if possible. Please send me and Jim Payne your information as Jim is going to try to put it in a schedule format for me.

What I would like help from you on is the following:

I need a list (b)(5) (b)(5)	
1) (b)(5)	
2)	
(b)(5)	

Any questions shoot me and email or call 376-6628 or 376-4343. Some examples of what I expect are :

- Identification of scope 3 to 5 days project completion of Form Cultural resources request review
- Form Cultural resources request review 3 to 5 days
- Decision to perform a full cultural review 60 90 days
- SHPO and Tribes 30 day review

Joe Franco AMRC



Crider	, Tara
From: Sent: To: Subject	Mercado, Renato S Tuesday, July 13, 2010 9:49 AM Mercado, Renato S FW: Property Question
Sent: T To: Hat Cc: Will	Vilcox, Debra nursday, June 26, 2008 9:49 AM naway, H B (Boyd); Dudley, John R amson, Barbara D; Glines, Wayne M; Mercado, Renato S : RE: Property Question
Can Ro	ene also join us today at 11:30 am to discuss this topic?
(509) 3	ilcox of Chief Counsel 76-3285 31-2629 (cell)
Sent: T To: Wild Cc: Willi	athaway, H B (Boyd) nursday, June 26, 2008 8:42 AM ox, Debra; Dudley, John R amson, Barbara D; Hathaway, H B (Boyd); Glines, Wayne M; Mercado, Renato S : RE: Property Question
Hi all:	
(b)(5)	my thoughts on the subject. Rene and Wayne, feel free to chime in. Rene Mercado is the sites Organization Property Manager Officer (OPMO) (b)(5)
•	(b)(5) (b)(5) because RL's contractual relationship is with the WA cology via real estate lease and not US Ecology (b)(5)

(b5) Alberray Client 8) deliberative

- Rene would provide the approved SF-122 Form back to the WA for their records.
- WA Ecology/US Ecology (receiver of donation) is responsible for shipment of donated property.

Let's meet and discuss further.

Thanks, Boyd.

H. Boyd Hathaway, Realty Officer
U.S. Department of Energy
P.O. Box 550; MS A3-04
825 Jadwin Avenue
Richland, Washington 99352
Ph:509-376-7340 Cell:509-531-7881 Fax:509-376-1466

From: Wilcox, Debra

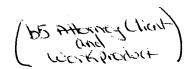
Sent: Wednesday, June 25, 2008 1:52 PM **To:** Hathaway, H B (Boyd); Dudley, John R

Cc: Williamson, Barbara D **Subject:** Property Question

(D)(5)

Deb Wilcox Office of Chief Counsel (509) 376-3285 (509) 531-2629 (cell)

THIS EMAIL MESSAGE INCLUDES ATTORNEY WORK PRODUCT INFORMATION AND IS PRIVILEGED. DO NOT FURTHER DISTRIBUTE WITHOUT PERMISSION OF THE SENDER.



Crider, Tara

From:

Mercado, Renato S

Sent:

Tuesday, July 13, 2010 9:54 AM

To: Subject: Mercado, Renato S FW: ERDF Soils Transfer

Attachments:

SF122 TRNSFR ERDF SOIL TO DOH-USE.xlsx

From: Hathaway, H B (Boyd)

Sent: Tuesday, April 21, 2009 3:31 PM

To: Mercado, Renato S Cc: Hathaway, H B (Boyd)

Subject: FW: ERDF Soils Transfer

Made changes to file

H. Boyd Hathaway, Realty Officer U.S. Department of Energy P.O. Box 550; MS A3-04 825 Jadwin Avenue Richland, Washington 99352

Ph:509-376-7340 Cell:509-531-7881 Fax:509-376-1466

From: Mercado, Renato S

Sent: Tuesday, April 21, 2009 3:24 PM

To: Wilcox, Debra

Cc: Williamson, Barbara D; Russell, Woody; Hathaway, H B (Boyd); Wirkkala, Andrew H; Bryson, Dana C; Robertson,

Owen Jr

Subject: RE: ERDF Soils Transfer

Please see attached SF122, Transfer form and let me know, if needs some revision, thanks.

Renato S. Mercado U.S. Department of Energy Richland Operations Office P.O. Box 550; MS A6-39 Richland, WA 99352 Ph: (509) 373-7286

Fax: (509) 376-1466

From: Wilcox, Debra

Sent: Thursday, April 16, 2009 1:44 PM

To: Robertson, Owen Jr; Bryson, Dana C; Wirkkala, Andrew H

Cc: Williamson, Barbara D; Russell, Woody; Mercado, Renato S; Hathaway, H B (Boyd)

Subject: FW: ERDF Soils Transfer

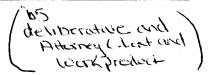
Importance: High

For your info (not sure who prepared the letter). I've already attached my recommended changes on the letter in ESTARS, but am attaching them here also for your convenience. My changes would be in addition to Wayne's. Renato has already agreed to make my requested changes to the Transfer Form.

Deb Wilcox Office of Chief Counsel (509) 376-3285 (Main Office) (509) 531-2629 (Personal Cell) (509) 372-7778 (Satellite Office)

This E-mail message contains Attorney Work Product information and is privileged under the Freedom of Information Act 5 USC Sec. 552(b). Do not distribute without sender's permission.

From: Glines, Wayne M Sent: Thursday, April 16, 2009 1:15 PM To: Wilcox, Debra Cc: Russell, Woody; Hathaway, H B (Boyd); Mercado, Renato S Subject: RE: ERDF Soils Transfer Importance: High
To All:
Relative to DOE O 5400.5 requirements (b)(5)
(b)(5)
Wayne M. Glines, CHP Sr. RADCON Technical Advisor Program Manager, Rad Site Services Safety & Engineering Division 509-376-6506
From: Wilcox, Debra Sent: Thursday, April 16, 2009 12:25 PM To: Hathaway, H B (Boyd); Mercado, Renato S Cc: Russell, Woody; Glines, Wayne M Subject: ERDF Soils Transfer
Boyd/Renato:
(b)(5)



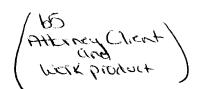
(b)(5)	
HDHO)	
1	
1	
i de la companya de	
1	
1	
I .	
I .	
I .	
I .	
I .	
I .	
I .	
The state of the s	
If you could please provide a fow more details (h)(5)	

If you could please provide a few more details (b)(5)

(b)(5) I would appreciate it very much. Call me either on my cell phone (531-2629) or at my remote office location (SAIC offices, 372-7778) until 3:30 pm today. After that, I will not be back in the office until Tuesday morning, April 21.

Deb Wilcox Office of Chief Counsel (509) 376-3285 (Main Office) (509) 531-2629 (Personal Cell) (509) 372-7778 (Satellite Office)

This E-mail message contains Attorney Work Product information and is privileged under the Freedom of Information Act 5 USC Sec. 552(b). Do not distribute without sender's permission.



STANDARD FORM 122 1. ORDER NO. JUNE 1974 TRANSFER ORDER GENERAL SERVICES **EXCESS PERSONAL PROPERTY** ADMINISTRATION 2. DATE FPMR (41 CFR) 101-32.306 FPMR (41 CFR) 101-43.315 4/16/09 3. TO: General Services Administration* 4. ORDERING AGENCY (Full name and address) State of Washington Department of Health (DOH) 309 Bradley Blvd. Suite 201 Richland, WA 99352 Attn: Earl Fordham 5. Holding Agency (Name and Address)* 6. SHIP TO (Consignee and Destination)* Washington Closure Hanford, LLC (WCH) U.S. Ecology (USE) 2620 Fermi Avenue Richland, WA 99352 Richland, WA 99354 7. Location of Property 8. SHIPPING INSTRUCTIONS Washington Closure Hanford, LLC (WCH) Environmental Remediation Disposal Facility (ERDF) Richland, WA 99354 Ordering Agency Approval 10. APPROPRIATION SYMBOL AND TITLE A. Signature B. Date C. Title 11. ALLOTMENT 12. GOVERNMENT B/L NO. 13. PROPERTY ORDERED **GSA AND** DESCRIPTION **ACQUISITION VALUE** HOLDING ITEM UNIT QUANTITY (Include noun name, FSC Group and Class, Condition Code and, AGENCY NOS. NO if available, National Stock Number) UNIT TOTAL (a) (b) (c) (d) (f) (g) Excess soil from the excavation of Super Cell 9 cu yds 800,000 cubic yard This soil is to remain within the confines of the Hanford Site and be used by USE for barrier/capping material on the State of Washington leased land at the Hanford Site, Contract No. A(45-1)-1835. By accepting this excess soil for use, DOH/USE also releases and holds DOE and its contractor WCH harmless from any claims or liabilities related to the use of this soil or its 'illegal" transport off the USE site or other unauthorized use. Personal property purchased from the U. S. Government may or may not be authorized for export from the United States. If export is allowed, the purchaser is solely responsible for obtaining required clearances, approvals, and/or licenses. The purchaser also is required to pass on the DOE's export control guidance if the property is resold or otherwise disposed. The required DOE export control guidance is: The use, disposition, export, and re-export of this property is subject to all applicable U.S. laws and regulations, including the Atomic Energy Act of 1954, as amended; the Arms Export Control Act ((22 U.S.C 2751 et seq.); the Export Administration Act of 1979 (560 U.S.C Append 2401 et seq.); Assistance to Foreign Atomic Energy Activities (10 CFR part 810); Export and Import of Nuclear Equipment and Material (10 CF part 110); International Traffic Arms Regulations (22 CFR parts 120 et seq.); Export Administration Regulations (15 CFR part 730 et seq.) Foreign Assets Control Regulations (31 CFR parts 500 et seq.); and the Espionage Act (37 U.S.C. 791 et seq.) which, among other things, prohibits: a. T The making of false statements and concealment of any material information regarding the use or disposition, export or re-export of the property; and b. Any use or disposition, export or re-export of the property which is not authorized in accordance with the provisions of this agreement. Print or Type Name of Recipient Signature of Authorized Representative Print or Type Name If Not Recipient Title: Date TOTAL= \$

B. TITLE:

SOURCE

DOE-RL-OPMO

*INCLUDE ZIP CODE

RELEASING-DOE **APPROVAL**

FOR

GSA

SIGNATURE:

AGENCY AND LOCATION

STATE

RENATO MERCADO

FSC

CONDITION

- | \$

C. DATE



Department of Energy

128600

Richland Operations Office P.O. Box 550 Richland, Washington 99352

06-AMRC-0291

JUN 3 8 2006

RECEIVED JUL 1 0 2006 BY R & DC

Mr. P. L. Pettiette, President Washington Closure Hanford, LLC 3070 George Washington Way Richland, Washington 99354

Dear Mr. Pettiette:

CONTRACT NO. DE-AC06-05RL14655 – SURPLUS SOIL FROM THE ENVIRONMENTAL RESTORATION DISPOSAL FACILITY (ERDF) - US ECOLOGY INC.

In response to WCH letter to S. L. Sedgwick, RL, from S. L. Feaster, same subject, dated June 19, 2006, you have full approval and authorization to allow US Ecology to perform sampling as a precursor activity to removal of surplus soil. It is our understanding that they want to use the soil for cover in their disposal facility. Since this soil pile is located in the pathway of future ERDF expansions, this activity could benefit both DOE and US Ecology. If you have questions, please contact me or your staff may contact Owen Robertson, Office of the Assistant Manager for the River Corridor, on (509) 373-6295.

Sincerely,

Stacie L. Sedgwick

Contracting Officer

Staci L. Sedpuick

AMRC:OCR

cc: S. L. Feaster, WCH D. H. Houston, WCH

W. S. Shingler, WCH

Modified Proctor (ASTM D 1557)
Client: WCH

Address:

ERDF



 Ω

Sample Information

Sample ID: SF-05
Sample Des: South Berm
Sampling Date: 3/26/2008
Sampled By: MF
Date Received: 3/26/2008
 JV
 Date:
 4/4/2008

 Black Sand w/ some brown mixed in
 5/9/2008
 Contact Name: Tom Kisenwether
Project: S66X528A00
Project Location: ERDF Cells 7-8
Tested By: MF Date Reviewed By:

Comments:

DENSITY DATA (grams)

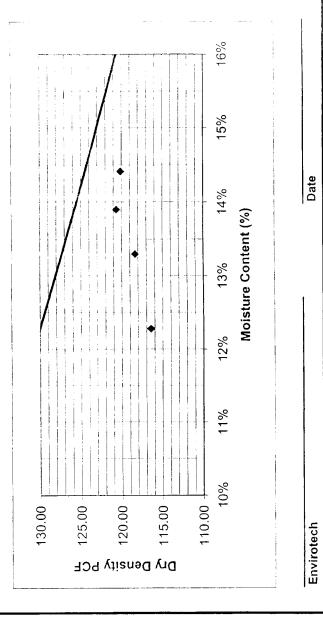
Mold + Wet Soil	12.88	13.08	13.20	13.31	13.31
Mold Wt.	8.73	8.73	8.73	8.73	8.73
Wet Soil	4.16	4.36	4.47	4.58	4.58
lbs/cu. ft. (wet)	124.7	130.7	134.1	137.4	137.4
lbs/cu. ft. (dry)	112.9	116.4	118.4	120.6	120.1

MOISTURE DATA (grams)

Tin No.	B43	E5	IA	ABC	E5
Wet Soil + Tin	1117.60	921.40	931.80	1496.20	946.70
Dry Soil + Tin	1030.70	847.60	842.90	1369.30	858.50
Tin Wt.	193.00	246.50	174.30	456.20	246.50
Dry Soil	837.70	601.10	668.60	913.10	612.00
% Moisture	10.4%	12.3%	13.3%	13.9%	14.4%
% Saturation	53.1%	68.7%	78.2%	%8:98	88.8%

MAXIMUM DRY DENSITY (PCF)

OPTIMUM MOISTURE CONTENT (%)



SOIL CLASSIFICATION (ASTM D-2487)

WCH ERDF Client: Address:

2500 N. 11th Street | Enid, OK 73701 (580) 234-8780 | Fax (580) 237-4302 ENVIRO

Sample Information

	South Berm : Black Sand w/ Brown			
SF-05	South Bern	3/26/2008	MF	3/26/2008
Sample ID:	Sample Des:	Sampling Date:	Sampled By:	5/13/2008 Date Received:
		i	5/12/2008	5/13/2008
ether	0	7-8	Date:	Date:
Tom Kisenw	S66X528A00	: ERDF Cells	LH	کار ا
Contact Name: Tom Kisenwether	Project:	Project Location: ERDF Cells 7-8	Fested By:	Reviewed By: J

Natural Moisture Content

2.1	
Natural Moisture	

Soil Classification Chart

Atterberg Limits Test Results (ASTM D-4318)

90

Flow Index	0	Spec
Liquid Limit	N/A	
Plastic Limit	N/A	
Plasticity Index	A/N	

30 - 20 - 10 -

Plastic Index (PI)

Particle Size Anaylsis (ASTM D-422) 200 Wash Sieve Analysis (ASTM D-1140)

Spec

100

40 60 8 Liquid Limit (LL)

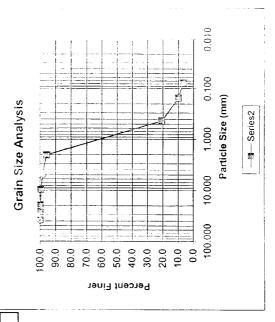
0

% Passing	100.0	100.0	100.0	9.66	98.5	95.9	20.9	6.6	9.9
Sieve Onening	37.500	25.000	19.000	9.500	4.750	2.000	0.425	0.150	0.075
ON eveis.	1 1/2 "	- 1	3/4 "	3/8 "	No.4	No. 10	No. 40	No. 100	No. 200

		1
6.40	3.60	
Cu	Cc	

Unified Soil Classification (ASTM D-2487) SP: Poorly graded sand

Deviations from ASTM: None



ح	
Envirotech	
Viro	
Ш	

Date

Modified Proctor (ASTM D 1557) Client: WCH

Address:

2500 N. 11th Street I Enid, OK 73701 (5:0) 234-8780 I Fax (580) 237-4302 ENVIRO

Sample Information

Tom Kisenwether

4/4/2008 5/9/2008 Date: Contact Name: Tom Kisenwether
Project: S66X528A00
Project Location: ERDF Cells 7-8
Tested By: MF Dai
Reviewed By: JV Dai
Comments: Black Sand

Sample ID: SF-04
Sample Des: South Berm
Sampling Date: 3/19/2008
Sampled By: MF
Date Received: 3/19/2008

DENSITY DATA (grams)

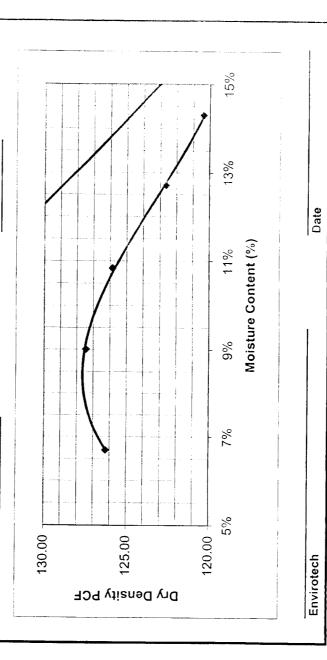
Mold + Wet Soil	13.36	13.38	13.33	13.31	13.22
Mold Wt.	8.73	8.73	8.73	8.73	8.73
Wet Soil	4.63	4.65	4.61	4.59	4.49
lbs/cu. ft. (wet)	138.9	139.5	138.2	137.6	134.7
lbs/cu. ft. (dry)	127.4	125.8	122.6	120.4	126.2

MOISTURE DATA (grams)

Tin No.	E4	ž	П	ΞX	m
Wet Soil + Tin	1146.00	1196.90	920.20	914.80	960.90
Dry Soil + Tin	1065.80	1096.90	844.10	823.00	916.00
Tin Wt.	175.10	174.30	245.30	181.20	245.20
Dry Soil	890.70	922.60	598.80	641.80	670.80
% Moisture	%0.6	10.8%	12.7%	14.3%	6.7%
% Saturation	68.0%	78.1%	83.8%	88.7%	48.8%

MAXIMUM DRY DENSITY (PCF)

OPTIMUM MOISTURE CONTENT (%)
8.5%



SOIL CLASSIFICATION (ASTM D-2487)

Client: Address:

WCH ERDF



Sample Information

SF-04	Cell Road Fill (Brown/Black Mix)	3/21/2008	MF	3/21/2008
Sample ID:	Sample Des:	Sampling Date: 3/21/2008	Sampled By:	Date: 4/11/2008 Date Received:
			4/1/2008	4/11/2008
ther		8	Date:	Date:
Tom Kisenwe	S66X528A00	ERDF Cells 7	MF	λſ
Contact Name: Tom Kisenwether	Project:	Project Location: ERDF Cells 7-8	Tested By:	Reviewed By:

Natural Moisture Content

N/A
Natural Moisture

Soil Classification Chart

Atterberg Limits Test Results (ASTM D-4318)

60 50 30 20

Plastic Index (PI)

10

Flow Index	0	Spec
Liquid Limit	N/A	
Plastic Limit	W/A	
Plasticity Index	A/N	

Particle Size Anaylsis (ASTM D-422) 200 Wash Sieve Analysis (ASTM D-1140)

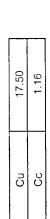
100

80

40 60 80 Liquid Limit (LL)

Grain Size Analysis

Spec									
% Passing	100.0	100.0	97.0	95.7	93.8	89.1	41.3	26.4	17.9
Sieve Opening	37.500	25.000	19.000	0.500	4.750	2.000	0.425	0.150	0.075
Sieve No	1 1/2 "	,, L	3/4 "	., 8/8	No.4	No. 10	No. 40	No. 100	No. 200



Unified Soil Classification (ASTM D-2487) SM: Silty Sand

Deviations from ASTM: No Hydrometer Performed at Client Request

0.010 0.100 Particle Size (mm) -- 8--- Series2 10.000 100.000 100.0 90.0 80.0 70.0 60.0 40.0 10.0 Percent Finer

Date

Envirotech

SOIL CLASSIFICATION (ASTM D-2487)

WCH ERDF Client: Address:



Sample Information

	South Berm: Course Brown Sand			
SF-06	South Be	4/9/2008	MF	4/9/2008
Sample ID:	Sample Des:	Sampling Date: 4/9/2008	4/10/2008 Sampled By:	5/13/2008 Date Received: 4/9/2008
	i	ĺ	4/10/2008	5/13/2008
Kisenwether	S66X528A00	Cells 7-8	Date:	Date:
Tom A	S66X	n: ERDF	RB	\ >
Contact Name: Tom Kisenwether	Project:	Project Location: ERDF Cells 7-8	Tested By:	Reviewed By: JV

Natural Moisture Content

6.2	
Natural Moisture	

Atterberg Limits Test Results (ASTM D-4318)

Soil Classification Chart

Flow Index	0	Spec
Liquid Limit	N/A	
Plastic Limit	A/A	
Plasticity Index	N/A	

50 50 30 20 10

Plastic Index (PI)

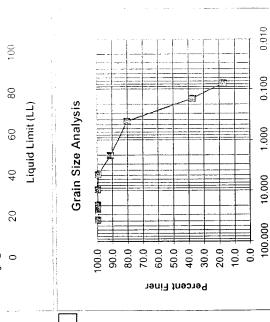
Particle Size Anaylsis (ASTM D-422) 200 Wash Sieve Analysis (ASTM D-1140)

100

20

0

Spec									
% Passing	100.0	100.0	100.0	100.0	99.5	91.2	80.3	37.4	17.2
Sieve Opening	37.500	25.000	19.000	9.500	4.750	2.000	0.425	0.150	0.075
Sieve No	1 1/2 "		3/4 "	3/8 "	No.4	No. 10	No. 40	No. 100	No. 200



4.33	2.08	
Cu	ပိ	

Particle Size (mm)

-----Series2

Unified Soil Classification (ASTM D-2487) SM: Silty Sand

Deviations from ASTM: No Hydrometer Performed at Client Request

Envirotech

Date

Modified Proctor (ASTM D 1557) Client: WCH

Address:

2500 N. 11th Street I Enid, OK 73701 (580) 234-8780 I Fax (580) 237-4302 ENVIRO

Sample Information

Sample ID: SF-06
Sample Des: South Berm
Sampling Date: 4/9/2008
Sampled By: MF
Date Received: 4/9/2008
 Project:
 S66X528A00

 Project Location:
 ERDF Cells 7-8

 Tested By:
 MF
 Date:
 4/14/2008

 Reviewed By:
 JV
 Date:
 4/15/2008

 Comments:
 South Berm Proctor - Course Brown Sand
 Tom Kisenwether Contact Name:

DENSITY DATA (lbs)

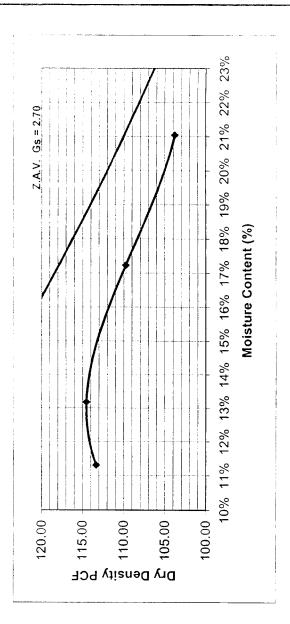
	07.07	1007			000
Wold + Wet Soil	13.46	13.57	13.54	13.44	00:0
Mold Wt.	9.25	9.25	9.25	9.25	00:0
Wet Soil	4.20	4.32	4.29	4.19	
lbs/cu. ft. (wet)	126.1	129.6	128.6	125.6	
lbs/cu. ft. (dry)	113.3	114.5	109.7	103.8	

MOISTURE DATA (grams)

Tin No.	ı	2	င	4	
Wet Soil + Tin	1718.90	1952.30	1938.70	1890.80	
Dry Soil + Tin	1544.30	1725.00	1653.80	1562.10	
Tin Wt.	0.00	00.00	00.0	0.00	
Dry Soil	1544.30	1725.00	1653.80	1562.10	
% Moisture	11.3%	13.2%	17.2%	21.0%	
% Saturation	58.4%	70.2%	81.4%	86.2%	

MAXIMUM DRY DENSITY (PCF)





Date

Page 1 of 1

Envirotech

Modified Proctor (ASTM D 1557)

Address:

Bechtel 3350 GWW, Richland, WA

ENVIRO

2500 N. 11th Street I Enid, OK 73701 (580) 234-8780 I Fax (580) 237-4302

Sample Information

Contact Name:	Contact Name: Dave Duranceau			Sample ID: BF-10-MP	BF-10-MP
Project:	03-117			Sample Des: Backfill	Backfill
Project Location:	Project Location: Hanford - ERDF Cell 5&6	Cell 5&6		Sampling Date: 12/5/2003	: 12/5/2003
Tested By:] Sf	Date:	12/9/2003	Sampled By: JS	JS
Reviewed By:))	Date:	12/10/2003	Date Received: 12/5/2003	12/5/2003
Comments:	Black and Brown sand 75%/25% with rocks	sand 75%/25	% with rocks		

DENSITY DATA (lbs)

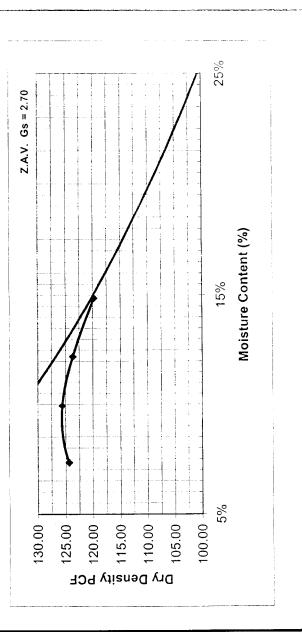
Mold + Wet Soil	6460.00	6528.00	6539.00	6521.00	
Mold Wt.	4441.00	4441.00	4441.00	4441.00	
Wet Soil	2019.00	2087.00	2098.00	2080.00	
lbs/cu. ft. (wet)	133.5	138.0	138.8	137.6	
lbs/cu. ft. (dry)	124.4	125.6	123.7	119.8	

MOISTURE DATA (grams)

Tin No.	၁	۵	ш	L.	
Wet Soil + Tin	153.99	151.87	152.90	156.73	
Dry Soil + Tin	146.89	142.65	141.72	142.97	
Tin Wt.	50.02	49.82	50.05	50.44	-
Dry Soil	96.87	92.83	91.65	92.53	
% Moisture	7.3%	%6.6	12.2%	14.9%	
% Saturation	55.9%	78.4%	%6.06	98.7%	

MAXIMUM DRY DENSITY (PCF)





Envirotech Engineering -CQA

Date

Revision 3- 08/2003

Modified Proctor (ASTM D 1557) Client: Bechtel

Address:

3350 GWW, Richland, WA



Sample Information

Sample ID: BF-11-MP	Sample Des: Black/Brown	Sampling Date: 12/9/2003	Sampled By: JS	Date Received: 12/9/2003	
	1	l 1	12/10/2003	12/12/2003	ace sample
/e Duranceau	117	Project Location: Hanford - ERDF Cell 5&6	Date:	Date:	50/50 Black/Brown mix; In-place sample
Da	03-117	Har	SL	RS	20/
Contact Name: Dave Duranceau	Project:	Project Location.	Tested By:	Reviewed By: RS	Comments:

DENSITY DATA (lbs)

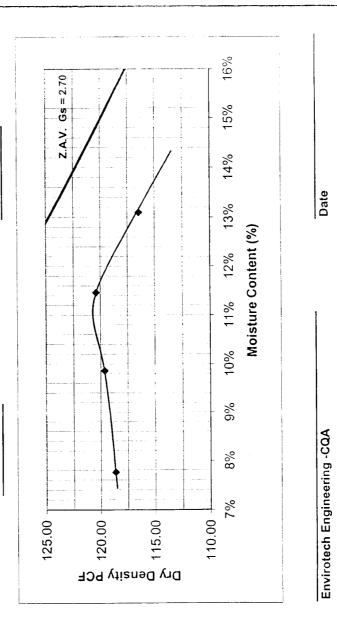
Mold + Wet Soil	6374.00	6428.00	6470.00	6432.00	
Mold Wt.	4441.00	4441.00	4441.00	4441.00	
Wet Soil	1933.00	1987.00	2029.00	1991.00	
lbs/cu. ft. (wet)	127.8	131.4	134.2	131.7	
lbs/cu. ft. (dry)	118.6	119.6	120.4	116.4	

MOISTURE DATA (grams)

Tin No.	В	O	a	ш	
Wet Soil + Tin	158.48	155.24	152.40	155.86	
Dry Soil + Tin	150.68	145.80	141.85	143.61	
Tin Wt.	50.15	50.03	49.82	50.08	
Dry Soil	100.53	95.77	92.03	93.53	
% Moisture	7.8%	9:9%	11.5%	13.1%	
% Saturation	49.9%	65.2%	77.5%	79.1%	

MAXIMUM DRY DENSITY (PCF)

OPTIMUM MOISTURE CONTENT (%)



Page 1 of 1

Revision 3- 08/2003

0600X-DD-C0309 0			NOTES
PROJECT: THOSE BOREHOLE LOG BORNE NO. 122-122-1 BORNE LOCATION SOUTH MADE SO BROWN DEVATION 441.00 FEET BORNE DATE BORNE SCHOOL AND FORWARDT CARE NOW, DRILLIN CONTRACTOR AND SOCIALITY DO. BOLLOW ROW FORWARDT BOUNDAMPITE BOLLOW ROW FORWARDT BOUNDAMPITE SAMPLES BORNE SOCIAL SAMPLES BORNE STATE SAMPLES BORNE STATE COLLEGE DO SCHOOL SAMPLES BORNE STATE BO	PREJUTE: CROF BOREHOLE LOG SOME NO. 25E-V21-1 BORSO LOCATION CONTROL SOME SOME SOME SOME SOME SOME SOME SOME	PROJECT: CEOP BOREHOLE LOG BORNE NO. 182-36-79 SORRE LOCATION HOSTIN 38141.00 BROWNE SLEVATION FOR AF FELT SORRE LOCATION HOSTIN 38141.00 BROWNE SLEVATION FOR AF FELT SORRE BATE SOR PROFILE SOR PROFILE SOR PROFILE SORRE BATE S	1. BORINGS 599-35-698 AND 669-35-68B TRANSCRIBED FROM BORING LOGS SUPPLIED BY WHC GEOTECHNICAL DEPARTMENT. REMAINDER OF BORING LOGS TRANSCRIBED FROM WHC-SD-AP-128 REV.1. "SITE CHARACTERIZATION PLAN FOR THE ENVIRONMENTAL RESTORATION DISPOSAL FACILITY". 2. FOR LOCATIONS OF SOIL BORINGS, SOIL TEST PITS, AND EXISTING WELLS, SEE DRAWING NO. 0600X-DD-C0308.
5 SMOY SUT	CRAYCLLY SANO 10 10 10 11 10 11 10 11 11 1	CRAMELY SATY SAND CRAMELLY SAND CRAMELL	The December 100 and 1
PROJECT: CEOY BOREHOLE LOG BORNE IN 321-572-5 SORBEI COLTION HORTH 33-09-00 BORNE ILLYATION HAIR SO BORNE CATE 1-7710-00 CAST -7710-00 BORNE INCOMPRED BORNE CATE CONCLISE METHOR AND COMPANION CAME TOOL CANCELLES SOR FOUND BORNE BORNE BORNE BORNE BORNE CATE SOR FOUND BORNE BORNE BORNE BORNE BORNE BORNE CATE SOR FOUND BORNE BORNE BORNE BORNE BORNE BORNE CATE SOR FOUND BORNE BO	PROJECTI. CHOY BOREHOLE LOG BORNEL LOGITH SAME 00 BORNEL CLIT - 7138120 BRILLING INTERPRETATION SET 700 BRILLING INTERPRETATION SET 700 BRILLING CONTRACTION SET 700 BRITLING CONTR	PROJECT LENY BOREHOLE LOG BORNE NO. 421-30-30 BORNE LOCATON INTO MALAZO BORNE LOCATON INTO MALAZO BORNE LOCATON INTO MALAZO BORNE LOCATON INTO MALAZO BORNE LOCATON BORNE NO. 421-30-30 BORNE NO. 421-30 BORNE NO. 421-	DOCUMENT CONTROL CAL 19/1/07 WY STAMP AND SEA, APPLY TO THOSE CHAMES MADE IN PROVISION(S) OF THE DRIGHAL DESIGN WAS NOT PREPARED UNDER MY DIRECTION THIS DRAWING HAS BEEN PREPARED IN PART ON THE BASIS OF INFORMATION ON THE ENGINEER IS NOT RESPONSIBLE FOR ANY ERRORS OF OMISSIONS WHICH HAVE BEEN INCORPORATED HITO THIS DOCUMENT AS A RESULT. STANDARD OF THE STANDARD

0600X-00-C0310 0 NOTES BORINGS 699-35-69B AND 669-35-68B TRANSCRIBED FROM BORING LOGS SUPPLIED BY WHO GEOTECHNICAL DEPARTMENT. REMAINDER OF BORING LOGS SCHOOL NO. 699-35-66 NORMA NO. 888-35-588 BOREHOLE LOG BOREHOLE LOG MOJECT: EROF PROJECT: ENDF BOREHOLE LOG PROJECT: ERDF DEPARTMENT. REMAINDER OF BURNING LOGS
TRANSCRIBED FROM WHC-SD-AP-128 REV 1. "SITE
CHARACTERIZATION PLAN FOR THE ENVIRONMENTAL
RESTORATION DISPOSAL FACILITY". SHEET 1_OF 1 SHEET 1 07.2 SHEET 1 OF 2 BORNO LOCATION HORTH \$4525.00 EAST -44100.00 BORBHS LOCATION HORTH 34883.00 [AST -85758.00 COMMINE LOCATION MORTH 35389 EAST -87488 BORNIS DATE: BORRES DATE: BORDIS DATE: 4/26/5 | CARL | TOOL | LOOKEN | CHICAGE | C LOGODD: E.A. JOHNSON BATTER
CHECKED COWARD C. RAFUSE
BATE: 4/27/94

POSTNATOR SENSENCE PSEZ
BATTE/TILD
0 10 20 30 40 50 DESLING DETRACTOR NOT DOCUMENTED DRELLING CONTRACTOR NOT DOCUMENTED DRELLING CONTRACTOR NOT DOCUMENTED DAGED CATCOLOR OF THE STATE OF FOR LOCATIONS OF SCIL BORINGS, SOIL TEST PITS. AND EXISTING WELLS, SEE DRAWING NO. 0600X-0D-C0368. PEZONETER PIE ZOMETER PIEZOMETER GRAPHIC Second In the Contract In the DESCRIPTION WATER WATER PSOIL - (EDLIAN SAN SAND Address Table (COLDER, OWNING) (AND ADDRESS AND ADDRES 2 275 Derice to very Dense, tight VIV Yallowish Brown, Fine to Medium SANO 2/iF frameworks proposed area for spread as an expension in approve of annual states of resources or annual of resources are resources in the expension of annual states and distinct and distin Day Tage Aury 20 2 1 62 2 0001-5C 60620 05-16 051 RECEIVED # #/F Very Dense, Light Brown Gray, Dry, Medium to Coonse SAND 001 08 2007 CONTROL SETY SAND 500x524A00 Very Dense, Pole Yellow, Lifedium to Coarse SAMO BOTTOM OF BOREHOLE SANO SALTY SAND CONTROL MEC 10/11/07 воения но. 181-36-79 RORNING NO. 4<u>823-35-5</u>5 PROJECT: ENDF BOREHOLE LOG PROJECT: DRDF BOREHOLE LOG PROJECT: ERDF BOREHOLE LOG SHEET 2.0F.2 945TT <u>1</u>0F <u>1</u> BEST LOF 1 MY STAMP AND SEAL APPLY TO THOSE CHANGES MADE IN REVISION(S) O. THE ORIGINAL DESIGN WAS NOT PPEPARED UNDER MY DIRECTION. GROUND CLEVATION 701.45 FEET ROBBING DATU 4/22/9HOLLOW STEI ALGER, 5-57 DRIL LÉGRED, SWINT MÉRUSION
AND STEI ALGER, 5-57 DRIL LÉGRED, GWARE 1. SAVINE
AND STEI ALGER, 5-57 DRIL LÉGRED, SWINT MÉRUSION
AND STEIN ALGER STEIN
AND STEIN ALGER STEIN
AND STEIN STEIN ALGER STEIN
BLANKE, 12 SAUGHTE
GRAPHE HORRIG EDCATION HORTH 34525.00 EAST -- BOSDE.00 CAT -4376.00 GROUNE
DRILING INTRIOCHED HOT GOCUMENTED
DRILING CONTRACTOR: HOT GOCUMENTED
DRILING CONTRACTOR: BORNE LOCATION HORTH 34840.00 [AST -65738.00 BORNE LOCATION HORTH 34717 WEST - 89888 DRILLING METHOD AND EDUPHMENT: CARLE TOOL DRILLING CONTINUETOR: NOT DOCLAMBITED DRILLIN: GOORLE/NOW LOCATOR
CHICKED:
BATE:
PRETENTION SCHOOLSE

ROWS/IT. BL
BATE CHICAG. FORCER DRELING METHOD AND EDUPMENT: DRELLING CONTRACTOR: DRELLING D. ROSSMAN LDGGED: CHECKED: DATE: PRICTE/TEN SCHITAKES SLOVE/TI. B THIS DRAWING HAS BEEN PREPARED IN PART ON THE BASIS OF INFORMATION COMPILED AND FUNDINSHED BY OTHERS HE PURDICER IN OUT RESPONSIBLE FOR ANY ERRORS OF OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT AS A RESULT. PICZOMETER DRAPHIC PEZOMETER DRAPHIC ORAPHC LOO HUMBER WATER WATER SILTY SAND Yellowish Brown, Dry Fine to Medium SAND, with Some Coarse Sand EXPIRES: 5/28/08 SILTY SAND 2/3 2/1F Dense to Very Dense, (CDLOR) Dry Fine to Medium SANO A 9/20/07 ISSUED FOR CONSTRUCTION DU CTB 5- 24H NA PR 11/12° DRIVEN DRUT DRG/ DRC'S BYS PROJ. BY DR'S DRC'S DR'S DRC'S DRC'S U.S. DEPARTMENT OF ENERGY DOE RICHLAND OPERATIONS OFFICE RIVER CORRIDOR CLOSURE CONTRACT X WASHINGTON CLOSURE HANFORD LLC. WEAVER BOOS CONSULTANTS, LLC

	Y		NOTES
DRAMAC MO. REV. NO. 0600X ~ DD ~ C0311 D			
PROJECT: LEGY BORCHOLE LOG BORGE MIN. 682-34-20 SOSSIO LOCATION MONTH 1796.00 SOSSIO LOCATION MO	MOMERIA LOCATION SOUTH LAUGHDON GROUND ELEVATION 744.33 TETT SOUTH DATE LOCATION SOUTH DATE LOCATION SOUTH DATE LOCATION SOUTH DOCUMENTED SOUTH DATE LOCATION SOUTH DA	PROJECTI. DOS BORE HOLE LOG SOURCE MARKET STATE OF LET SOURCE DEVATOR FOR AS TEXT LOF L. SOURCE DELIVER STATE OF LOG SOURCE DEVATOR FOR AS TEXT SOURCE DEVATOR STATE OF LOG SOURCE DEVATOR STATE OF LOG SOURCE DEVATOR DEVATO	BORINGS 699-15-698 AND 669-15-688 IRANSCRIBED FROM BORING LOGS SUPPLIED BY WHIC CEOTECHNICAL DEPARTMENT. REMAINDER OF BORING LOGS TRANSCRIBED FROM WHC-5D-AP-128 REV.1. "SITE CHARACTERIZATION PLAN FOR THE ENVIRONMENTAL RESTORATION DISPOSAL FACILITY". 2. FOR LOCATIONS OF SOIL BORINGS, SOIL TEST PITS, AND EXISTING WELLS. SEE DRAWING NO. 0600X-DD-C0308. PECCEIVED 9019 8007 WCH-COCUMENT CONTROL WOOLSC.COCSQL COMM. 058 VCH-COCUMENT CONTROL SCOX 93UROO.
			DOCUMENT CONTROL rose, 10/11/67
PROJECT: CROF BOREHOLE LOG SCREW IN. MELLER IN. MELLER IN. MELLER INTO CONTROL	PROJECT: CROY BOREHOLE LOG SOURCE LOCATION MOTIVE 15153.00 CLOT 140704.00 DELIAND INCTION ARE COMMANDED ELEVATION: 748.32 SOURCE LOCATION MOTIVE 15153.00 DELIAND LOCATION TO COMMANDED ELEVATION: 748.32 DELIAND LOCATION TO COMMANDED ELEVATION: 748.32 SOURCE LOCATION TO COMMANDED ELEVATION: 748.32 SOURCE LOCATION TO COMMANDED ELEVATION: 748.32 SOURCE LOCATION TO COMMANDED ELEVATION TO COMMANDED ELEVATI	PRIME INC. (1971) 39-41-00 BORRHOLD LOCATION NOTH 39-41-00 BRILLIE CHARGE STORM AND COLUMN TOOL BRILLIE CHARGE STORM STORM STORM TOOL BRILLIE CHARGE STORM STORM TOOL BRILLIE	MY STAMP AND SEAL APPLY TO THOSE CHANCES MADE IN REVISION(S) O THE ORIGINAL DESIGN MAS NOT PREPARED UNDER MY DIRECTION THIS DRAWING HAS BEEN PREPARED IN PART ON THE BASIS OF INFORMATION COMPILED AND PURSISHOR BY OTHERS. THE ENGINEER IS NOT RESPONSIBLE FOR ANY ERRORS OR OWNSSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT AS A RESULT. AS A RESULT. WILL AS SHOWN U.S. DEPARTMENT OF ENERGY DOE RICHLAND OPERATIONS OFFICE RIVER CORRIDOR CLOSURE CONTRACT WASHINGTON CLOSURE HANFORD LLC. WEAVER BOOS CONSULTANTS, LLC

0600X-00-C0312 0 NOTES FOR LOCATIONS OF SOIL BORINGS, SOIL TEST PITS, AND EXISTING WELLS, SEE DRAWING NO. 0500X-05-00308. TEST PT NO. 175992 TEST PIT NO. IPAGE FIELD TEST PIT LOG FIELD TEST PIT LOG PROJECT: ENDF ment Tot T SHEET __OF_1 MOUND ELEVATIONS TEST HT SATE: 5/31/94 TEST PIT DATE: 5/31/1 (FT) HT*30 MOVING THE SECRETARY WAS INC. NO. 1. STATE OF THE SECRETARY WAS INC. GRAPHIC LOG LOG COMPACT, MODERATE YELLOWISH BROWN SILTY FINE COMPSE SAND (SM), (EQUAN DEPOSIT) COMPACT, MODERATE YELLOWISH BROWN, SILTY FINE TO COARSE SAND (SM), (EOLIAN DEPOSIT) Dan General OFTG 053 RECEIVED COMPACT, DUVE BLACK, COARSE TO FINE SAND (SP), (HANFORD FORMATION) GCT 08 2007 YCH - DOCUMENT COMPACT, OLME BLACK, LAWNATED COARSE TO FINE SAND, TRACE SILT, LITTLE GRAVEL (SP), (HANFORD FORMATION) 500x524A00 COMPACT, DUNE GRAY, COARSE TO FINE SAND, TRACE FINE GRAYEL (SP), (HANFORD FORMATION) 101AL DEPTH . 8 7 FEET TOTAL DEPTH - 12.5 FEET CONTROL MLC 10/11/07 7037 PT NO. 17301 PROJECT: CROS FIELD TEST PIT LOG PROJECT: ENDF FIELD TEST PIT LOG SHEET _LOT_ SHEET 1 OF 1 HEST PT BATE 5/31/94 MY STAMP AND SEAL APPLY TO THOSE CHANGES MADE IN REVISION(S) O. THE ORIGINAL DESIGN WAS NOT PREPARED UNDER MY DIRECTION. TREMOVER METHOD AND EXHAUSTIC CASE SHO ENTERONECT CONTRACTOR (P. JOHNSON CONSTRUCTION OPERATOR (). CADEU CAROLEN MARK ANDERSON CHECKEDS INCHARD LUMBY DATE: 5/31/84 THIS DRAWING HAS BEEN PREPARED IN PART ON THE BASIS OF INFORMATION COWPIED AND FURNISHED BY OTHERS. THE ENGINEER IS NOT RESPONSIBLE FOR ANY ERRORS OF OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT SA RESULT. GRAPHIC LDN ERWYK LOG SOL PROFILE DESCRIPTION COMPACT, MODERATE YELLOWISH BROWN, SUTY FINE CGARSE SANG (SM), (EQUAN DEPOSIT) COMPACT, MODERATE YELLOWISH BROWN, SALTY, FINE COARSE SAND (SM). (EQUAN DEPOSIT) EXPIRES: 5/28/08 COMPACT, OUME CRAY, COURSE TO FINE SAND, UTTLE GRAVEL (SP), (MANFORD FORMATION) CALCIUM CEMENTED COARSE SAND LAYER ~2" COMPACT, OUNE GRAY, COARSE TO FINE SAND, LITTLE GRAVEL (SP), (HANFORD FORMATION) CALCHUM CEMENTED SAND LAYER ~1 INCH @ 9/38/2 JJ CFB - 714 NIA ER ISSUED FOR CONSTRUCTION COMPACT TO DENSE, DUME GRAY, LAMINATED COARSE TO FINE SAND, LITTLE GRAVEL (SP). (HANFORD FORMATION) ACK. DATE BY CHY DIC'S CH'S DIC'S DICH SCALE: AS SHOW U.S. DEPARTMENT OF ENERGY TOTAL DEPTH - & FEET DOE RICHLAND OPERATIONS OFFICE RIVER CORRIDOR CLOSURE CONTRACT WASHINGTON CLOSURE HANFORD LLC. WEAVER BOOS CONSULTANTS, LLC

NOTES 0600X-DD-C0313 0 FOR LOCATIONS OF SOIL BORINGS, SOIL TEST PITS, AND EXISTING WELLS, SEE DRAWING NO. 0600X-DD-00308. TEST PHI HO_ITME/ TEST PT NO. IPHOS TEST PIT HO TOWN FIELD TEST PIT LOG FIELD TEST PIT LOG PROJECT: EROF FIELD TEST PIT LOG PROJECT: ERD 2HEET __OF __ T ACT LINE 2007 1 OF 1 IT LOCATION PIT LOCATION GROUND ELEVATIONS MOUTAVILLE CHOCKE PIT LOCATION -MOUND GLEVATIONS TEST PIT DATE: 0/1/94 TEST PIT DATE: 6/1/94 TEST PIT DATE: 5/31/9 TREMCHING MICHOD AND EQUIPMENT: CASE 500 EXTENDANCE CONTRACTOR: E.F. JOHNSON CONSTRUCTION OPERATOR: D. CADICU PEDICHONG METHOD AND EQUIPMENT: CASE 500 EXTENDANCE CONTRACTOR: E.P., JOHNSON CONSTRUCTION OFFICE D. CADEU TRENCHMO METHOR AND EQUIPMENT: CASE 590 EXTENDANCE CONTRACTOR: E.F. JOHNSON CONSTRUCTION OPERATOR: D. CADICU CHECKEN RICHARD LUARE BATE: 5/31/94 GRAPHIC LOG MARKET AND PROPERTY OF A STANDARD PROPERTY OF A STANDARD O COMPACT, MODERATE YELLOWISH BROWN, SILTY FINE TO COARSE SAND (SM), (EOLIAN DEPOSIT) COMPACT, PALE YELLOWISH BROWN, SELTY FINE TO COARSE SAND (SM), (EDUAN DEPOSIT) COMPACT, FALE YELLOWISH BROWN, SILTY FINE TO COURSE SAND (SM) Du Perus 10/2/67 Οκοκ 9: 90/2/4 054 500×524 Αισ RECEIVED OCT 08 2007 COMPACT TO DENSE, PALE YELLOWISH BROWN, CALCIUM CEMENTED COARSE SAND, LITTLE TO TRACE FINE GRAVEL (SP). (HANGORD FORMATION) YCH DOCUMENT COMPACT, OLIVE BLACK, COARSE TO FINE SAND TO SAND AND CRAYEL, LITTLE SILT (SW-GW), (HANFORD FORMATION) COMPACT, DUNE BLACK, COARSE TO FINE SAND, TRACE CRAYEL (SP). (HANFORD FORMATION) COMPACT, OUNE BLACK, COARSE TO FINE SAND AND GRAVEL (SP), (HANFORD FORMATION) COMPACT TO DENSE, MODERATE YELLOWISH BROWN, SILTY COARSE TO FINE SAND, LITTLE TO SOME CRAYEL (SM). (MANFORD FORMATION) TOTAL DEPTH - 9 FEET TOTAL DEPTH - 8 FEET CONTROL TOTAL TOTAL TEST PIT NO. TRICKS TEST PET NO. TPHONE TEST PIT NO THEN 10 MOJECT: EHOF FIELD TEST PIT LOG FIELD TEST PIT LOG FIELD TEST PIT LOG PROJECT: ERDF PROJECT: LRUF 100上17106 SHEET _LOF__ \$1607 ___ OF ___ MT LOCATION MY STAMP AND SEAL APPLY TO THOSE CHANGES MADE IN REVISION(S) O. THE ORIGINAL DESIGN WAS NOT PREPARED UNDER MY DIRECTION TEST PIT BATE 6/1/84 TEST PHI DATE: 6/1/94 TEST PIT GATE: 6/1/8-THIS DRAWING HAS BEEN PREPARED IN PART ON THE BASIS OF INFORMATION COMPILED AND FURNISHED BY OTHERS. THE ENGINEER IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT AS A RESULT GRAPHIC LDG GRAPHIC LOG GRAPHIC LDG COMPACT, MODERATE YELLOWISH BROWN, SILTY FINE TO COURSE SAND (SP-SM), (EQUAN DEPOSIT) COMPACT, MODERATE YELLOWISH BROWN, SILTY FINE TO MEDIUM SAND (SM), (EDILAN DEPOSIT) COMPACT, MODERATE YELLOWISH BROWN, SILTY FINE TO COARSE SAND, TRACE CRAVEL (SU), (EDLIAN DEPOSIT) EXPIRES: 5/28/08 CHART WITH CONFESS FOR TO CAR, THAT SERVICE COMMENTARY COMPACT GIRE BLACK, COARSE TO FINE SAND, SOME moves som construction The second secon U.S. DEPARTMENT OF EMERGY ne engan WASHINGTON CLOSURA WEXCEN BOOL HANFORD LLC. CONSULTANTO, LLC 1 - 645,00

DHAWNIG HO. NOTES 0600X-DD-C0315 0 FOR LOCATIONS OF SOIL BORINGS, SOIL TEST PITS, AND EXISTING WELLS, SEE DRAWING NO. 0600X-DD-C0308. 1031 PIT NO._1795 TEST PIT NO._1791.__ TEST PT NO. 1705 FIELD TEST PIT LOG FIELD TEST PIT LOG MOJECTI CHOF FIELD TEST PIT LOG \$4001 ⊥0r⊥ SHEET __ OF __ SHOOT _LOF_L 1657 PF BATE 12/1/9-TEST FIT GATE: 11/31 TEST INT DATE: 12/2/94 BRATHIC LDG GRAPHIC LDG TOR. SOIL PROFILE DESCRIPTION PALE YELLOWISH BROWN, COURSE TO FINE SAND LITTLE SET (SW), (COLUAN DEPOSIT) LOOSE TO COMPACT, PALE YELLOWISH BROWN, COARSE TO FINE SAND WITH SOME SUT (SW-SN), (EDUAN DEPOSIT) LOOSE, PALE YELLOWISH BROWN, COARSE TO FINE SAME WITH LITTLE SILT (SW-SM), (EXLAN DEPOSIT) Sept. Species of the Colon States & Colon 1995 TOUR TO SECOND SECTION OF SECURITY SECTION OF SECURITY SE RECEIVED SEE 118 2007 COMPACT TO DENSE, GRAY, COARSE TO FINE TO MEDIUM SAND, TRACE SILT (GW). (HANDFORD FORMATION YOU DOCUMENT 500X524 A00 COMPACT TO DENSE, BROWNISH BLACK, COARSE TO FINE GRAVEL WITH SOME COARSE TO FINE SAND, DRY, CACO3 CEMENTATION AT CONTACT (GW), (HAMFORD FORMATION) TOTAL DEPTH - 8 FEET LIGHT OLIME BROWN, WEDLAN TO FINE SAND, SOME SILT, TRACE COMPSE TO THE CRAYEL (SW) TOTAL DEPTH - 10 FEE COMPACT TO DENSE, BROWNISH BLACK, COARSE TO FINE GRAVEL WITH SAND (GW), (MANFORD FORMATION) TOTAL DEPTH - 12.5 FEET CONTROL ALC 10/11/67 TEST PET NO. 1708 PROJECT: EROF FIELD TEST PIT LOG TEST PHT HO_TESS TEST PIT NO TP07 FIELD TEST PIT LOG HOJECT: EASY FIELD TEST PIT LOG PROJECTI CRIY TI LOCATION -24ET _L 0F _L SHEET 1 OF 1 GROUND GLEVATION -TEST FIT DATE: 11/30/ PIT LOCATION -PIT LOCATION : SHOUND ELEVATIONS -TEST PT DATE: 11/30/ TEST MT GATE: 11/30/ TREMOVING METHOD AND COMPMENT: FORD \$650 CONTRACTOR: E.F., JORNSON CONSTRUCTION OPERATOR: B. CADICU LOGOED: WARY AMDERSON CHECKED: SCOTT STONE HAM SATE: 1/23/95 MY STAMP AND SEAL APPLY TO THOSE CHANGES MADE IN REVISION(S) 0. THE ORIGINAL DESIGN WAS NOT PREPARED UNDER MY DIRECTION. LOGOTO: MARK ANDERSON CHECKED: SCOTT STONEMAN DATE: 1/23/95 CDG CDG THIS DRAWNO MAS BEEN PREPARED IN PAPE ON THE BASIS OF INFORMATION COMPILED AND FURNISHED BY OTHERS. THE ENGINEER IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT AS A RESULT. GPAPHIC LDG GRAPHIC LOG SOIL PROFILE DESCRIPTION SOR PROFILE DESCRIPTION LOOSE PALE YELLOWISH BROWN COAPSE TO FINE SAND, LITTLE TO SOME SET (SM), (EQUAN DEPOSIT) LOOSE, PALE YELLOWISH BROWN, COARSE TO FINE SAND, LITTLE SET (SW-SM), (EQUAN DEPOSIT) LDOSE, LIGHT BROWNISH GRAY, FINE SAND SOME SET (SM), (EDUAN DEPOSIT) EXPIRES: 5/28/08 CENSE, COARSE CRAVEL, LITTLE COARSE TO FINE SAND (MARTICRO FORBLATION) Coursel to both that and committee where In the same (this same the same Soul AS Solvey Council some council council to proceed the council U.S. DEPARTMENT OF EMERGY DOE FICHLAND OPERATIONS OFFICE F6391616161 W WASHINGTON CLOSURE | WEAVER BOOS | HANFORD LLC. | CONSULTANTS, LLC E., (250)

Enclosure II

o: c: ubject: _{ttachments:}	Tuesday, July 15, 2008 8:36 AM Wilcox, Debra; French, Mark S; Hathaway, H B (Boyd) Franco, Jose R (Joe); Williamson, Barbara D; Dudley, John R RE: Use of ERDF Soil Data SF-01 Proctor.xls; SF-01 Class.xls
Michelle Mandis (se Construction Quali- pit logs from the in	ers to the sand, silt, and clay content. I requested from WCH a listing of the data send to see below). It consisted of soil classification and compaction data collected by the ty Assurance (CQA) contractor, Envirotech, last March (see attachments), and boring and to itial construction of Cells 1&2.
The soil data collec	ted by the CQA contractor (b)(5)
(b)(5)	
I hope this helps.	
Thanks, Owen	
From: Wilcox, Deb Sent: Monday, July To: French, Mark S Cc: Franco, Jose R Subject: RE: Use	y 14, 2008 4:31 PM s; Hathaway, H B (Boyd); Robertson, Owen Jr (Joe); Williamson, Barbara D; Dudley, John R
(b)(5)	

Deb Wilcox Office of Chief Counsel (509) 376-3285 (509) 531-2629 (cell)

THIS EMAIL MESSAGE INCLUDES ATTORNEY WORK PRODUCT INFORMATION AND IS PRIVILEGED. DO NOT FURTHER DISTRIBUTE WITHOUT PERMISSION OF THE SENDER.

Product Alterney Client and Client From: French, Mark S

Sent: Monday, July 14, 2008 4:27 PM

To: Hathaway, H B (Boyd); Robertson, Owen Jr

Cc: Franco, Jose R (Joe); Wilcox, Debra Subject: FW: Use of ERDF Soil Data

(b)(5)

Mark S. French Federal Project Director 373-9863

From: Mandis, Michelle (ECY) [mailto:MICH461@ecy.wa.gov]

Sent: Monday, July 14, 2008 3:52 PM

To: French, Mark S

Cc: Skinnarland, E R (Ron); Singleton, Deborah; Ollero, Jennifer (ECY); Robertson, Owen Jr

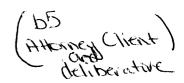
Subject: Use of ERDF Soil Data

Mark~

Ron requested that I touch base and verify that it was acceptable with USDOE to forward ERDF soils data to US Ecology personnel so that they may send it to their sub-contractor. Mr. Thom Kisenwether (373-9173) from Washington Closure sent me the data from 18 borings and several test pits.

Thanks,

Michelle



Modified Proctor (ASTM D 1557)

Client:

WCH

Address:

ERDF



2500 N. 11th Street | Enid, OK | 73701 (580) 234-8780 | Fax (580) 237-4302

Sample Information

Tom Kisenwether Contact Name: S66X528A00 Project: Project Location: ERDF Cells 7-8

Date: MF Date: J۷

Sampling Date: 3/12/2008 Sampled By:

Sample ID:

Sample Des:

SF-01

Test Pad Sub_

Date Received: 3/12/2008

Reviewed By: Comments:

Tested By:

North Berm Brown Sand Mixed with Black Sand

DENSITY DATA (grams)

	12.4C	13.28	12.81	13.29
12.98	13.10		0.71	8.71
8.71	8.71	8.71	0.71	
	4.46	4.58	4.11	4.58
		127.3	123.2	137.5
128.3	133.7			121.8
118.1	121.0	122.4	115.1	121.0
	12.98 8.71 4.28 128.3 118.1	8.71 8.71 4.28 4.46 128.3 133.7	8.71 8.71 8.71 4.28 4.46 4.58 128.3 133.7 137.3	12.98 13.16 13.25 8.71 8.71 8.71 4.28 4.46 4.58 4.11 128.3 133.7 137.3 123.2 123.4 115.1

3/21/2008

3/21/2008

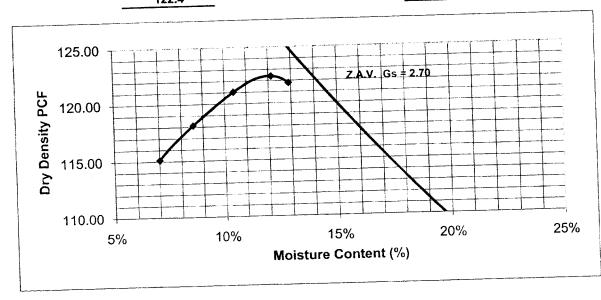
MOISTURE DATA (grams)

	T	1//	XII	ES	E2
Tin No.	XIII	VI	720.96	695.10	711.30
Wet Soil + Tin	680.73	677.92	662.56	665.72	658.22
Dry Soil + Tin	641.34	630.39	181.17	246.48	246.70
Tin Wt.	181.20	174.26		419.24	411.52
Dry Soil	460.14	456.13	481.39	7.0%	12.9%
% Moisture	8.6%	10.4%	12.1%		90.8%
% Saturation	54.2%	71.8%	87.0%	40.8%	90.076

MAXIMUM DRY DENSITY (PCF) 122.4

OPTIMUM MOISTURE CONTENT (%)

12.1%



Date Envirotech

SOIL CLASSIFICATION (ASTM D-2487)



WCH

Address:

ERDF



2500 N. 11th Street | Enid, OK | 73701 (580) 234-8780 1 Fax (580) 237-4302

Sample Information

O. J. Mamor	Tom Kisenweth	er		Sample ID:	SF-01
Contact Name:	S66X528A00			Sample Des:	Test Pad Sub. Brw and Blk sand
Project:			-	Sampling Date:	3/12/2008
Project Location			_	Sampled By:	MF
Tested By:	MF	Date:			3/12/2008
Reviewed By:	JV	Date:	3/21/2008	Date Received:	3/12/2000

60

Natural Moisture Content

Natural Moisture	N/A

Atterberg Limits Test Results (ASTM D-4318)

Flow Index	0	Spec
Liquid Limit	N/A	
Plastic Limit	N/A	
Plasticity Index	N/A	

Particle Size Anaylsis (ASTM D-422) 200 Wash Sieve Analysis (ASTM D-1140)

Sieve No	Sieve Opening	% Passing	Spec
1 1/2 "	37.500	100.0	
1"	25.000	100.0	1
3/4 "	19.000	100.0	
3/8 "	9.500	96.0	
No.4	4.750	94.4	
No. 10	2.000	90.2	
No. 40	0.425	26.1	1
No. 200	0.075	7.3	

Cu	10.56
Сс	2.47

Unified Soil Classification (ASTM D-2487) SW: Well Graded Sand

Deviations from ASTM: None

50.0 40.0 30.0 20.0 10.0 0.0 0.010 100.000 1.000 10.000

Particle Size (mm) --- Series2

_			·				
<u>a</u>	50			CH/OH	/		
ex (40 -		1				
pu (30 🕂			MH/	OH -		
ţ;	20		CL/OL				
Plastic Index (PI)	10		IL/OL				
	0	CLY	L/ UL	L			
	0	20	40	60	80	100	
	_		Liqui	d Limit (LL)		
			•	-			
		Gra	in Size	Analy	sis		
	100.0	V. 21 FT	month of the officer	c=num(T)	r manif	ITI F	
			*			1111	
	90.0	†	mii	1			
	80.0	 	₩₩┼┼				
<u>*</u>	70.0		╫╫┼┼╼	 \ 	11-111	##	
Finer	60.0			 	11-11		

Soil Classification Chart

Envirotech	
Date	

Enclosure III

Scott Bib.



Department of Energy

Richland Operations Office P.O. Box 550 Richland, Washington 99352

08-AMRC-0216

AUG 2 0 2008

140958

Mr. Gary Robertson, Director State of Washington Department of Health Office of Radiation Protection PO Box 47827 Olympia, Washington 98504-7827

Dear Mr. Robertson:

USING ENVIRONMENTAL RESTORATION DISPOSAL FACILITY (ERDF) EXCESS SOIL AT US ECOLOGY LOW-LEVEL RADIOACTIVE WASTE (LLRW) DISPOSAL SITE

In reply to your letter to me, same subject, dated July 9, 2008, the excavated soil that may be available from ERDF equate to approximately 450,000 cubic yards. Your letter states that US Ecology needs 800,000 cubic yards of soil. The remaining 350,000 cubic yards needed can potentially be obtained by excavating the soil from the future construction area for cells 9 and 10. Construction of cells 9 and 10 is scheduled to begin in early Fiscal Year 2011.

Before construction of cells 9 and 10 can start, we must process a Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Record of Decision (ROD) Amendment for the additional of cells 9 and 10. The schedule for this activity is set to begin in October 2008 and to be completed within 9 months.

I agree that a Memorandum of Understanding (MOU) (or something similar) is required for us to go forward with the project. The MOU should contain details, such as safety procedures, procedures, preservation of eolian soils, haul routes, etc. The MOU should be established between US Ecology and Washington Closure Hanford (WCH), subject to review and approval by our respective offices.

The U.S. Department of Energy, Richland Operations Office (RL) has done a review of the soils and believes that this is a good potential opportunity for the agencies to work together. The soil transfer will require significant interface and RL requests the following items:

RECEIVED

AUG 27 2008

WCH-DOCUMENT

- Department of Health maintain the master schedule
- Department of Health lead the effort on development of the MOU
- Agreement on the MOU
- RL and Department of Health assign project leads
- Department of Health is the lead for establishing a charter for the project with review and approval by both agencies

Attached you will find a draft copy of our draft schedule. We look forward in working with you on this opportunity.

If you have questions, please contact me or your staff may contact Owen Robertson, of my staff, on (509) 521-1045.

Sincerely,

Joe R. Franco, Assistant Manager

for the River Corridor

AMRC:OCR

Attachment

cc w/attach:

B. C. Covert, WCH

D. R. Einan, EPA

E. W. Fordham, DOH

artment of He.	atment of Heath Solls Analysis		101	
Gi việ	Addivity Name	Ongine	No.9	14-Aug-06 13:25
		Justion	2 3 4 6 6 7 8 9 10 11 12 12 13 15	,
epartme.	Department of Health Soils Analysis	25		2
Sultural A	Cultural Resource Review	2		
A1000 A1020	Mileatone, initiate Cultural Resource Review (CRR), Propare and Send a CRR Request form and map to the Contractor Notify SHPO, These active (Stateholders of the Proped Action - Request Significant Natural for Incorporation into CRR.	05 #	** Matestone: instilate Cueural Resource Review, (CRR) *** Prepare and Sentra of CRR Request form and map to the Contractor *** Modely SHPC. Tritions and so Shahanoiders of the Project Action. Request Significant issues for Incorporation sto CRR	
A1030 A1040 A1050 A1050 A1080 A1080 A1100	A1030 Raview Comments A1040 Incorporate Comments A1050 Send CRR to SHPO, These and standarders for a 30 day Review A1050 Rooporate comments (as required, A1070 Re-Send CRR to SHPO, Tribos and Stalkshotders A1080 Combust a Survey & Exturation seeds); las required, A1090 Resolve any Outstanding Sesses and Finalize report A1100 Withstone; CRR Completed Neuror To Proceed A1100 Withstone; CRR Completed Neuror To Proceed	a n 2 d a d 2 d a 8	Heview Comments into CRR Leader Sond CRR to SHPO, Tracs and stakeholders for a 30 day Review Formation and strained and stakeholders for a 30 day Review Formation and survey Formation and Survey Recorded a Survey Recorded a Survey Recorded as Survey Recorded	
A2010 A2020 A2030 Radiologic	A2010 Contractor Prepare NEPA Documentation (CX) A2020 Comment Resolution A2030 DOE Approval Rediological Release of Property (DOE Order \$400.5)	္ စိုက္ကယ္မ်	Contractor Propare NEPA Documentation (CX) Colument Recolution Colument Recolution	
A3000 Perton A3040 RL Be A3050 Prepai Property Transfer	Perform a Document Historical Process Knowledge Assessment (HSA). RL Review HSA. Prepare Decession Letter: No Action Required. Prepare Jeter	8 m m 8	Pariorin & Document Heliotica Process Knowledge Assessment (HSA) The Process Decession Letter: No Acade Required	
A3010 A3012 A3014 A3016 A3020 A3020 A3020	A3010 Prepare Order Excess Personal Property Form (SF-122) A3012 DOE Legal Review A3014 Comment Resultion Titlerafer SF-122 To WA Ecology WA Ecology Complete and sign if e SF-122 form & Results to DOE A3020 WA Ecology complete and sign if e SF-122 form & Results to DOE Transmit Execused SF-122 form to WA Ecology Comstract Execusion	555558	Propare Order Encass Personni Property Form (SF-122) Comment Resolution Comment Resolution Formal Transfer SF-22 To WA Ecology WA Ecology complete and sign the SF-122 form & Resurs to DOE Formal WA Ecology complete and sign the SF-122 form & Resurs to DOE Formal Transfer SF-22 To WA Ecology	
ASOTO ASOZO ASOZO ASOZO ASOZO ASOZO ASOZO ASOZO ASOZO ASOZO	ASO10 Prepare Contractor - Contractor Interface Agreement ASO20 DCH & DOE-RI, Review ASO30 Comment Resolution ASO40 Appenda ASO40 Allestone: Begin Soil Tanalar ASO40 Allestone: Begin Soil Tanalar	4 5 5 N 0 B	Prepare Contractor Interface Agreement Comment Resolution Comment Resolution Comment Resolution	
A5050 A5060 A5070 A5080	Work on Cells 94:10 Documentation DOE Review Comment Resolvition	8 A 5 N	Work on Cells 94/0 Documentation Ood Represe Comment Resolution The Approval	
Remaining Work Critical Remaining	B Famaining Work Citikal Panaining Work		River Corridor Closure	AMEC Jue branen
• Milestone	270		Transfer of Soils to WA Dept. of Health	

French, Mark

From:

Sent:

To:

Cc: Subject: Franco, Jose R (Joe) Wednesday, July 01, 2009 8:19 AM 'Fordham, Earl W (DOH)' French, Mark S; Robertson, Owen Jr **ERDF Soil**

Importance:

High

Follow Up Flag: Flag Status:

Follow up Flagged

Earl (b)(5)

Give me a call when you can.

376-4343

Joe Franco **AMRC**

French, Mark

From:

Franco, Jose R (Joe)

Sent:

Thursday, July 09, 2009 10:28 AM

To:

Bryson, Dana C; Robertson, Owen Jr; French, Mark S FW: ERDF Soils

Subject:

Importance:

High

Follow Up Flag: Flag Status:

Follow up Flagged

FY!

From: Fordham, Earl W (DOH) [mailto:Earl.Fordham@DOH.WA.GOV]

Sent: Thursday, July 09, 2009 10:24 AM

To: Franco, Jose R (Joe) **Subject:** RE: ERDF Soils

Thanks, Joe.

(b)(5)

probably work nicely in our plans to construct next season.

March 2010 will

From: Franco, Jose R (Joe) [mailto:Jose_R_Joe_Franco@RL.gov]

Sent: Thursday, July 09, 2009 10:18 AM

To: Fordham, Earl W (DOH)

Cc: Robertson, Owen Jr; French, Mark S; Bryson, Dana C

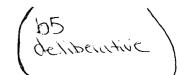
Subject: ERDF Soils

Earl

As I had notified you here is the scheduled date when we will start the excavation on cell 10. This may change as we go through the process and we will keep you informed. Mid March 2010

Cell 9 is in works this month.

Joe Franco AMRC



Enclosure IV

French, Mark	
From: Sent: To: Cc: Subject: Attachments:	Robertson, Owen Jr Tuesday, July 15, 2008 8:36 AM Wilcox, Debra; French, Mark S; Hathaway, H B (Boyd) Franco, Jose R (Joe); Williamson, Barbara D; Dudley, John R RE: Use of ERDF Soil Data SF-01 Proctor.xls; SF-01 Class.xls
Deb,	
Michelle Mandis (s Construction Qual	fers to the sand, silt, and clay content. I requested from WCH a listing of the data send to see below). It consisted of soil classification and compaction data collected by the ity Assurance (CQA) contractor, Envirotech, last March (see attachments), and boring and test titial construction of Cells 1&2.
The soil data collec	rted by the CQA contractor (b)(5)
(b)(5)	
I hope this helps.	
Thanks, Owen	
Cc: Franco, Jose R Subject: RE: Use o	14, 2008 4:31 PM Hathaway, H B (Boyd); Robertson, Owen Jr (Joe); Williamson, Barbara D; Dudley, John R
(b)(5)	

Deb Wilcox Office of Chief Counsel (509) 376-3285 (509) 531-2629 (cell)

THIS EMAIL MESSAGE INCLUDES ATTORNEY WORK PRODUCT INFORMATION AND IS PRIVILEGED. DO NOT FURTHER DISTRIBUTE WITHOUT PERMISSION OF THE SENDER.

Alterney Click and work product From: French, Mark S

Sent: Monday, July 14, 2008 4:27 PM

To: Hathaway, H B (Boyd); Robertson, Owen Jr

Cc: Franco, Jose R (Joe); Wilcox, Debra **Subject:** FW: Use of ERDF Soil Data

(b)(5)

Mark S. French Federal Project Director 373-9863

From: Mandis, Michelle (ECY) [mailto:MICH461@ecy.wa.gov]

Sent: Monday, July 14, 2008 3:52 PM

To: French, Mark S

Cc: Skinnarland, E R (Ron); Singleton, Deborah; Ollero, Jennifer (ECY); Robertson, Owen Jr

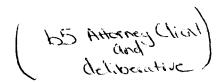
Subject: Use of ERDF Soil Data

Mark~

Ron requested that I touch base and verify that it was acceptable with USDOE to forward ERDF soils data to US Ecology personnel so that they may send it to their sub-contractor. Mr. Thom Kisenwether (373-9173) from Washington Closure sent me the data from 18 borings and several test pits.

Thanks,

Michelle



Modified Proctor (ASTM D 1557)

Client:

WCH

Address:

Tested By:

ERDF



2500 N. 11th Street | LEnid, OK | 73701 (580) 234-8780 1 Fax (580) 237-4302

Sample Information

Tom Kisenwether Contact Name: S66X528A00 Project: Project Location: ERDF Cells 7-8

SF-01 Sample ID:

Test Pad Sub Sample Des: Sampling Date: 3/12/2008

Sampled By: MF 3/21/2008 Date: MF

Date Received: 3/12/2008 3/21/2008 JV Date: Reviewed By:

North Berm Brown Sand Mixed with Black Sand Comments:

DENSITY DATA (grams)

Mold + Wet Soil	12.98	13.16	13.28	12.81	13.29
Mold Wt.	8.71	8.71	8.71	8.71	8.71
Wet Soil	4.28	4.46	4.58	4.11	4.58
Ibs/cu. ft. (wet)	128.3	133.7	137.3	123.2	137.5
lbs/cu. ft. (dry)	118.1	121.0	122.4	115.1	121.8

MOISTURE DATA (grams)

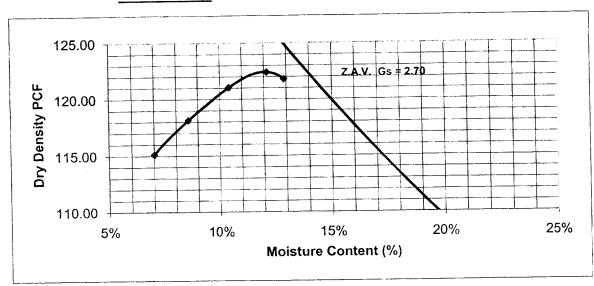
Tin No.	XIII	VI	XII	ES	E2
Wet Soil + Tin	680.73	677.92	720.96	695.10	711.30
Dry Soil + Tin	641.34	630.39	662.56	665.72	658.22
Tin Wt.	181.20	174.26	181.17	246.48	246.70
Dry Soil	460.14	456.13	481.39	419.24	411.52
% Moisture	8.6%	10.4%	12.1%	7.0%	12.9%
% Saturation	54.2%	71.8%	87.0%	40.8%	90.8%

MAXIMUM DRY DENSITY (PCF)

122.4

OPTIMUM MOISTURE CONTENT (%)

12.1%



Date Envirotech

SOIL CLASSIFICATION (ASTM D-2487)



WCH

Address:

ERDF



2500 N. 11th Street | Enid, OK | 73701 (580) 234-8780 1 Fax (580) 237-4302

Sample Information

Contact Name:	Tom Kisenwe	ether		Sample ID:	SF-01
Project:	S66X528A00			Sample Des:	Test Pad Sub. Brw and Blk sand
Project Location	r FRDF Cells 7	7-8	4/0	Sampling Date:	3/12/2008
Tested By:	MF	Date:	3/20/2008	Sampled By:	MF
Reviewed By:	JV	Date:	3/21/2008	Date Received:	3/12/2008

Natural Moisture Content

Natural Moisture	N/A
	<u> </u>

Atterberg Limits Test Results (ASTM D-4318)

Flow Index	0	Spec
Liquid Limit	N/A	
Plastic Limit	N/A	
Plasticity Index	N/A	

Particle Size Anaylsis (ASTM D-422) 200 Wash Sieve Analysis (ASTM D-1140)

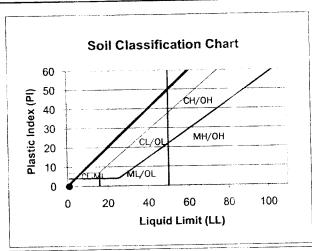
Sieve No	Sieve Opening	% Passing	Spec
1 1/2 "	37.500	100.0	
1 "	25.000	100.0	
3/4 "	19.000	100.0	
3/8 "	9.500	96.0	
No.4	4.750	94.4	
No. 10	2.000	90.2	
No. 40	0.425	26.1	
No. 200	0.075	7.3	

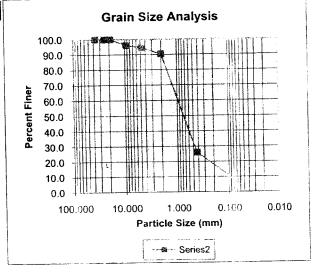
Cu	10.56
Сс	2.47

Unified Soil Classification (ASTM D-2487)

SW: Well Graded Sand

Deviations from ASTM: None





Envirotech		
LIMIOLOGII	Envirotech	
	EHANORECH	

Date