



---

## Uploaded to the VFC Website

▶▶▶ February 2014 ◀◀◀

---

This Document has been provided to you courtesy of Veterans-For-Change!

Feel free to pass to any veteran who might be able to use this information!

For thousands more files like this and hundreds of links to useful information, and hundreds of "Frequently Asked Questions, please go to:

[Veterans-For-Change](http://www.veteransforchange.org)

---

*Veterans-For-Change is a A 501(c)(3) Non-Profit Organization  
Tax ID #27-3820181  
CA Incorporation ID #3340400  
CA Dept. of Charities ID #: CT-0190794*

### ***If Veterans don't help Veterans, who will?***

We appreciate all donations to continue to provide information and services to Veterans and their families.

[https://www.paypal.com/cgi-bin/webscr?cmd=\\_s-xclick&hosted\\_button\\_id=WGT2M5UTB9A78](https://www.paypal.com/cgi-bin/webscr?cmd=_s-xclick&hosted_button_id=WGT2M5UTB9A78)

---

### **Note:**

VFC is not liable for source information in this document, it is merely provided as a courtesy to our members & subscribers.



7. How long did the transportation and disposal take?  
그것을 이동하는 것과 처리하는데 시간이 얼마나 걸렸습니까?

N/A

8. How much was disposed? In the same location or other locations too?  
얼마나 많은 양이 처리되었습니까? 똑 같은 장소입니까 아니면 다른 곳도 있습니까?

See #4

9. Where did the containers originally come from?  
용기는 원래 어디서 온 것입니까?

See #4

10. Where were they stored prior to disposal? Did it have a special name? Any other locations where they were stored?

처리하기 전에 그것들은 어디에 저장되어 있었습니까? 그것들에 특별한 이름이 있습니까?  
그것들이 저장된 또 다른 장소가 있습니까?

N/A.

11. What was the condition in storage?  
저장소의 상태는 어떠했습니까?

See #4

12. How were they moved?  
어떻게 그들이 이동되었습니까?

See #4

13. Who was involved with the transportation and disposal?  
이동과 처리 과정에 누가 관여되었습니까?

See #4

14. Describe the containers (all the same, any markings)?  
용기 모양을 묘사해 주십시오 (모두가 똑 같았습니까, 어떤 표식이라도?)

See #4

15. Describe how you disposed of the containers?  
그 용기들을 어떻게 처리되었는지 설명해 주십시오?

See #4

16. Are you aware if the containers were removed after they were buried?  
그들이 매장된 이후 그 용기들이 혹시 이동되었는지 알고 계십니까?

On 13 June 2011 Mr. [redacted] went back to the site in Helipad and Landfarm to see what was left behind, he noticed that the area was dug up from the site. He thought that there was nothing left to excavate since a new fence line built with concrete cement in that area.

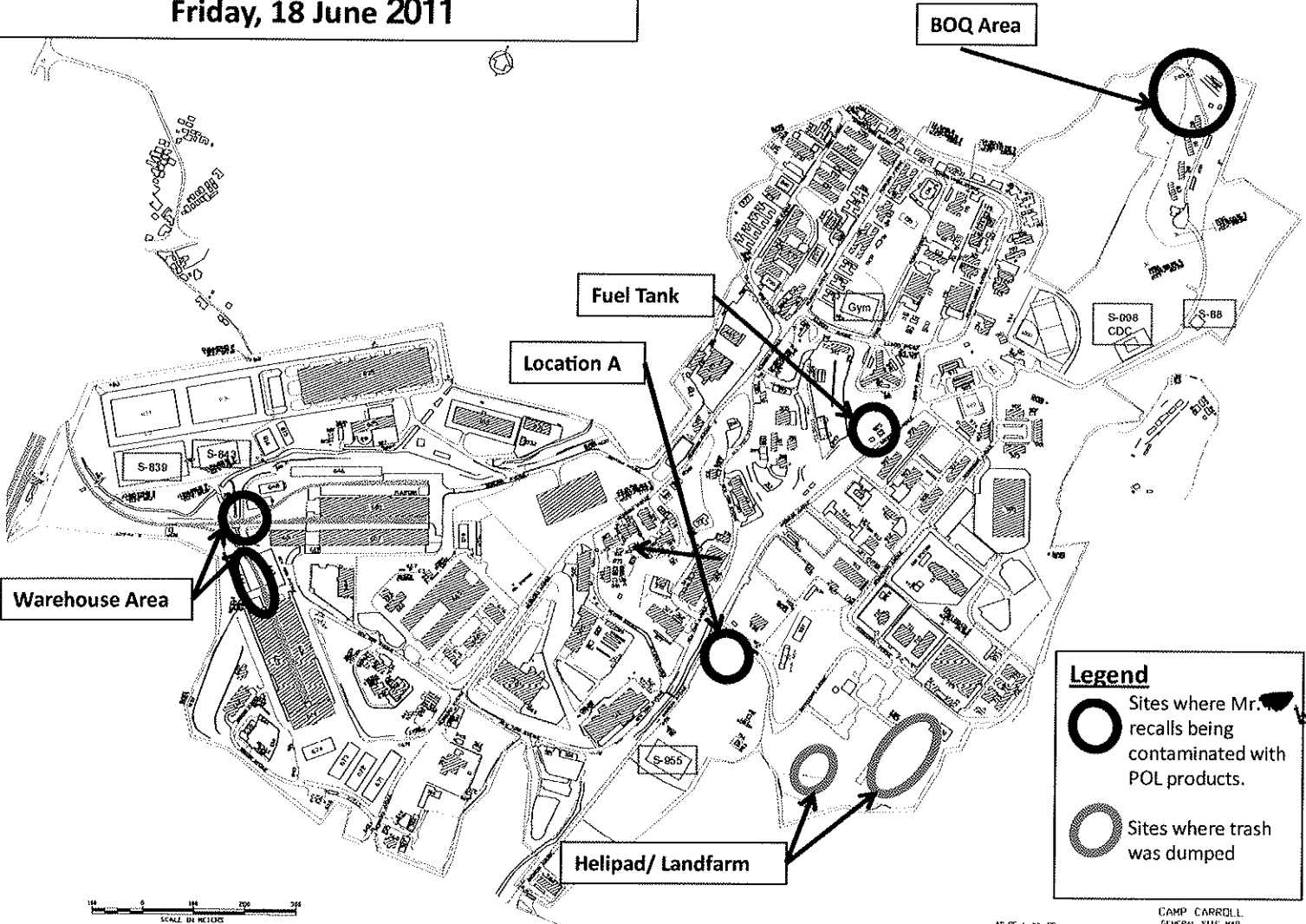
#### Interesting Notes

- A. Mr. [redacted] stated that he was interviewed by the Chilgok County Governor that there was no Agent Orange (or any harmful products) buried in the helipad area. When the governor was interviewed by Korean news, he never mentioned Mr. [redacted] assertion that there was nothing harmful in that area. Additionally, he told the same thing to two news reporters [redacted] and [redacted] that there was no Agent Orange in vicinity of the Helipad area. However these two reporters wrote articles stating that Mr. [redacted] buried drums of Agent Orange and he's now sick and suffering from stomach cancer. Mr. [redacted] was in relatively good health despite the fact that he is in 70s.

- B. He was emphatic about his belief that there was nothing harmful buried in the helipad area. He denounced what Mr. House stated.**
- C. He mentioned that near Landfarm area, they used to collect all kinds of trash (left-over construction materials) that Korean contractors left behind after their project on Camp Carroll. They were building up pretty fast, so he was told to burn them up and buried them.**
- D. He stated that whenever there is hazardous waste (mixed gasoline, oil etc), they collected them and called the Koreans company to come on post and haul them away from Camp Carroll.**

2502

Mr. [redacted] <sup>b6</sup> interview  
Friday, 18 June 2011



2503



## ENVIRONMENTAL SUBCOMMITTEE

UNDER  
THE UNITED STATES OF AMERICA AND THE REPUBLIC OF KOREA  
JOINT COMMITTEE, STATUS OF FORCES AGREEMENT

AUG 2 2011

Mr. [REDACTED] b6  
Director, Soil and Groundwater Management Division  
Ministry of Environment  
Jungang-Dong 1, Gwacheon City  
Republic of Korea, 427-760

Dear Director [REDACTED] b6

The disposition of the items discovered during the 2008 land farm expansion at Camp Carroll has been an interest item as our two countries investigate allegations that 250 barrels containing Agent Orange remain on Camp Carroll. The Army record search is complete with the following results:

The Camp Carroll land farm consists of treatment areas identified as bed #1 and bed #2. During the expansion of bed #1 in April of 2008, waste materials were unexpectedly uncovered. These wastes included:

1. Fifteen empty 55 gallon drums – some of these drums were labeled as cleaning solvent,
2. Five 55 gallon drums containing a liquid that contained mercury
3. Approximately two hundred empty five gallon cans – some of these cans were labeled with a chemical manufacture's name "Mallinckrodt",
4. Metal containers whose content was identified as calcium carbonate,
5. Vinyl bags of powdered chlorine for food service disinfectant and an unidentified inhibitor
6. Vehicle batteries, and
7. Construction and metal debris.

In addition to the materials listed above, 2,083 cubic meters of soil with a chemical odor were excavated from bed #1 and moved for treatment to bed #2. A liquid with a brown color formed in the bottom of the excavation in bed #1. Attachment A contains images depicting the location of the unexpected material, examples of the items listed above, the liquid, and the environmental sampling activities conducted after the excavation associated with the waste material removal was complete.

Five soil samples and a sample of the brown colored liquid were collected before the area was filled to finish construction of bed #1. The results of these samples are at attachment B. In summary, the site was clean after the waste

2504

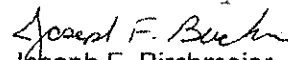
material was removed. There are no indication from the pictures, description of the waste, or analytical results that Agent Orange was buried in this area.

The waste materials excavated during the project were kept on site in a specially constructed area and disposed of through DRMO. Composite samples were taken to identify the wastes for disposal. Based on laboratory analytical results (attachment C), the excavated material was segregated and prepared for disposal through DRMO. In summary, the liquid in the 5 drums contained mercury at levels that exceeded Korean Environmental Governing Standards (EGS) requiring disposal as a regulated material. The balance of the wastes were non-regulated.

Based on the laboratory analytical results, the waste material was grouped into three categories for disposal: (1) 5 drums labeled "liquid containing mercury"; (2) 5 drums labeled "contaminated soil/debris"; and (3) 3 large wooden containers (industrial waste boxes) labeled "POL contaminated soil". These 13 containers were transported and stored in building 722 (Camp Carroll HW storage facility) until they were transported to a treatment/disposal facility by a DRMO contractor.

Turn-in documents and a "certificate of disposal" for all wastes are at attachment D and E respectively. For your convenience in attachment E, I highlighted the three categories of waste removed during the construction of bed #1 and their disposal method.

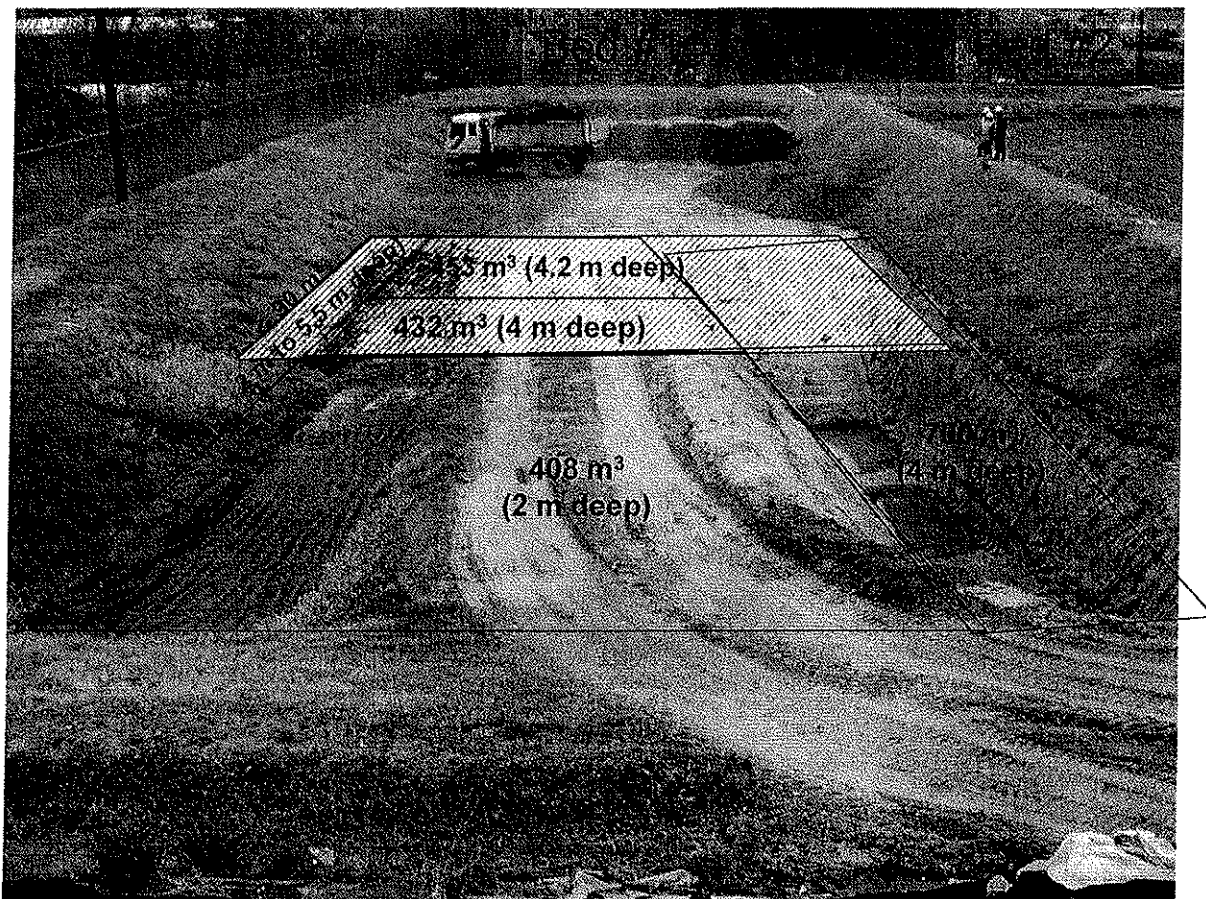
I know this information will provide you a factual basis to further our consultations on this matter. As always, I look forward to our continued discussions on important matters of mutual interest.

  
Joseph F. Birchmeier  
Colonel, U.S. Army  
Chairman, U.S. Component

2505

# Camp Carroll 2008 Land farm Expansion

Attachment A



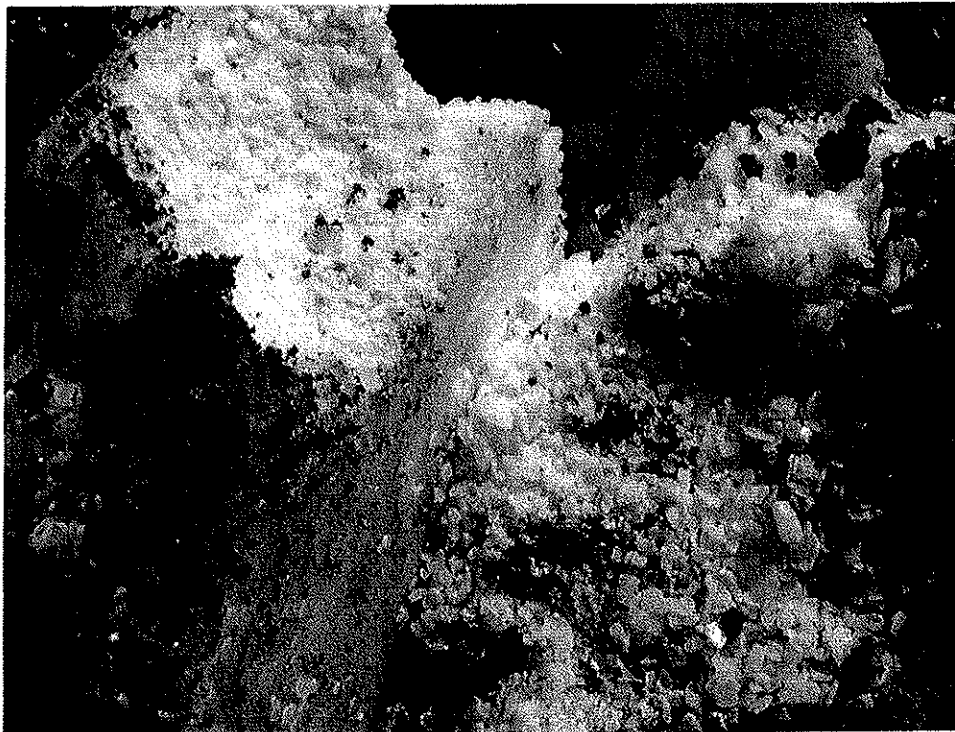
## Summary of Excavation Status

1. 2,083 m<sup>3</sup> of Soils were excavated from L/F bed #1 and transported to L/F bed #2 for treatment.
2. Buried items were generally discovered from 0.5 meter to 3 meter below grade, and discolored soil was excavated from the bottom of the buried items was 4 ~5.5 meters below the surface grade.
3. Buried items were found in the middle of the bed (hatched area with orange color)..

Public Release Requires ROK-US Joint Committee Approval

2506

White powder metal cans - Sampled for chemical analysis

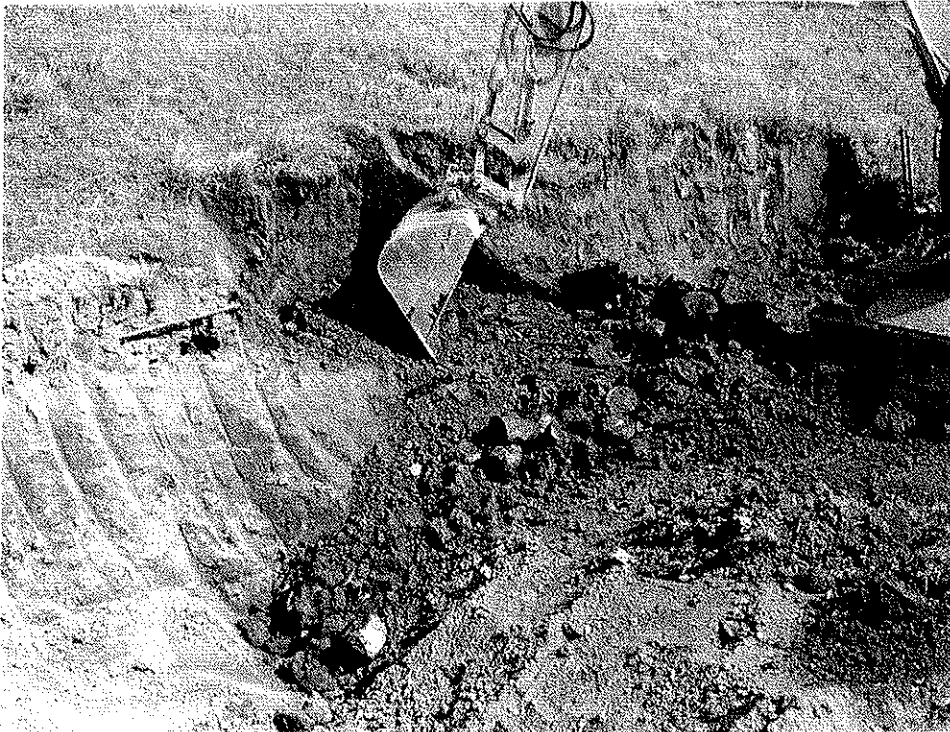


Public Release Requires ROK-US Joint Committee Approval

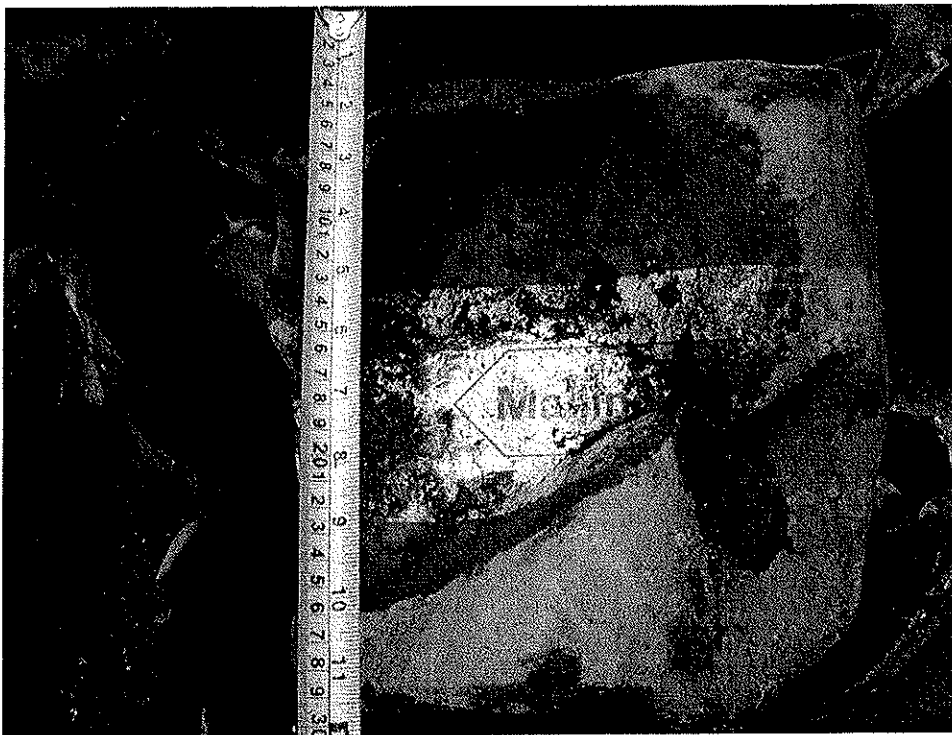
2507



Excavating metal containers buried at east slope of the land farm bed



Five gallon cans that was usually observed (labeled as "Mallinckrodt")



Public Release Requires ROK-US Joint Committee Approval

2508

55 gallon drums & 5 gallon cans in specially constructed area awaiting proper packaging for disposal



Public Release Requires ROK-US Joint Committee Approval

2509

Construction and metal debris



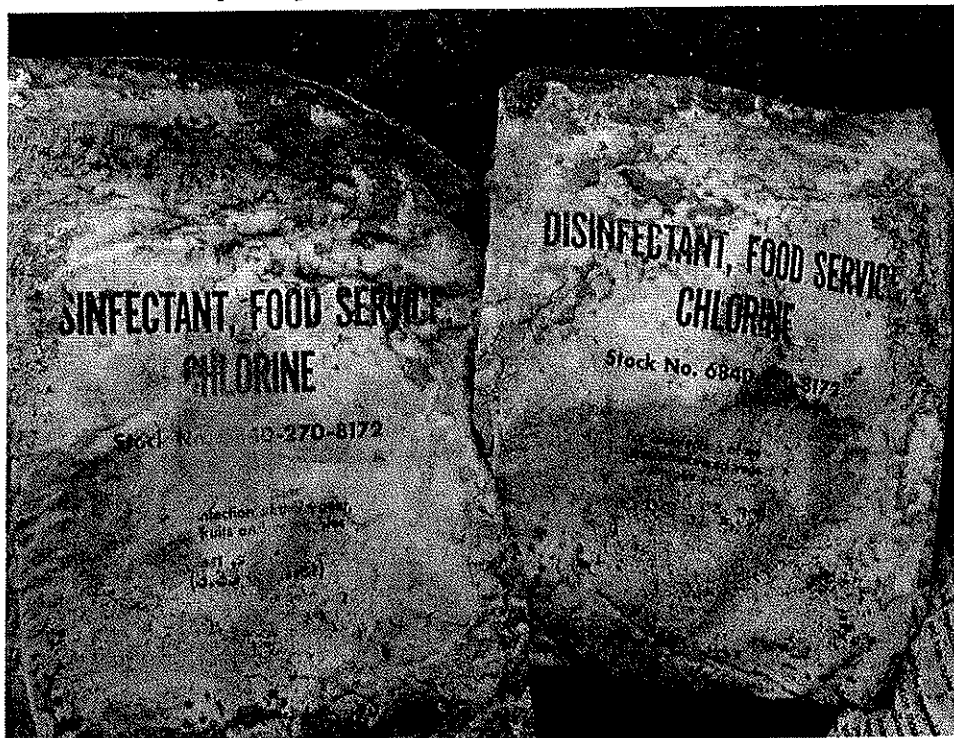
Vehicle battery



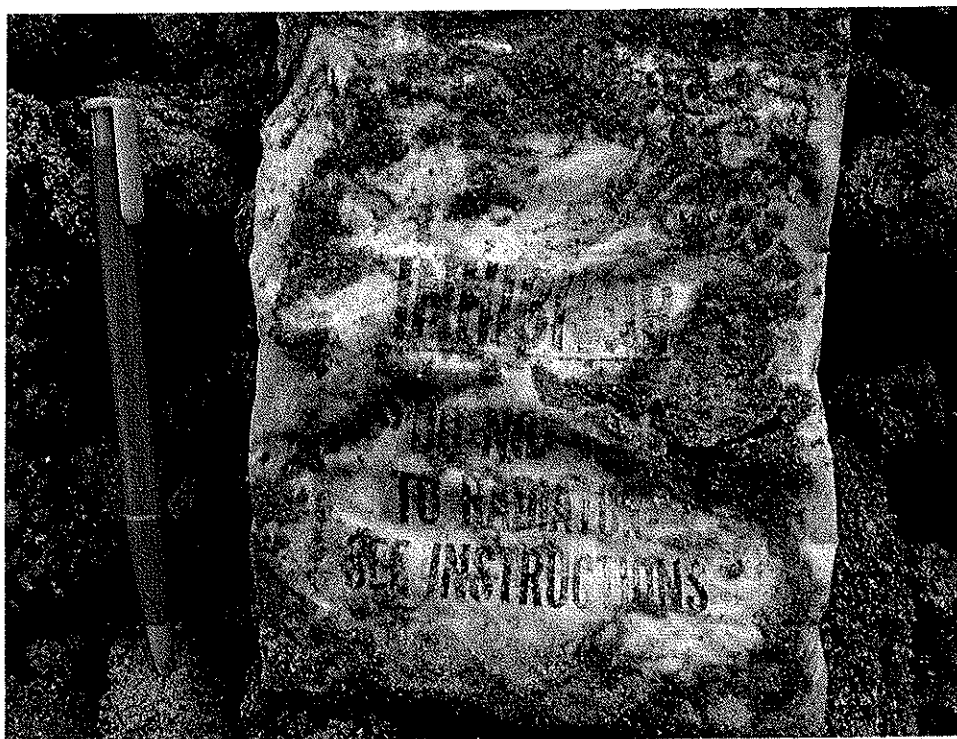
Public Release Requires ROK-US Joint Committee Approval

2510

Chlorine in vinyl bag



Inhibitor



Public Release Requires ROK-US Joint Committee Approval

2511

liquid at the bottom of excavation:  
Other than brownish color, there is no observable property



Confirmation sampling:  
Five soil samples were collected for confirmation purpose,  
and one sample was collected beneath the buried drums with some odor  
for chemical identification



Public Release Requires ROK-US Joint Committee Approval

25/2





# SGS Testing Korea Level IV Data Report

Lab Work Order No. : G6-63

Client Name : US ARMY CORPS OF ENGINEERS FAR EAST DISTRICT

Project Name : DO0005-12

Project Number : 08-014E

Released by (Signature) [Redacted] b6  
 (Printed Name) [Redacted] b6  
 (Title) Technical Manager  
 (Date) 05-14-2008

Contents:

1. Cover Page
2. Case Narrative
3. Sample Result
4. QC Result Summary
5. Chain of Custody Record
6. Sample Receipt

\* Attachment : Raw Data

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager of the Manager's designee, as verified by the following signature.

Signature : [Redacted] b6 Name : [Redacted] b6  
 Date : 05-14-2008 Title : Project Manager

This reports contains a total number of 96 Pages

Routing

25/3



**US ARMY CORPS OF ENGINEERS FAR EAST DISTRICT**

**USACE FED Unit # 15546  
APO AP 96205-5546 #40 Ulchiro-5ka  
Chung-ku Seoul KOREA**

**SGS Lab Testing Service  
#322, The O Valley Bldg  
555-9, Hogye-dong, Dongan-gu  
Anyang-city  
Gyeonggi-do  
Korea**

\* US ARMY CORPS OF ENGINEERS FAR EAST DISTRICT = Hereinafter referred to as 'USACE FED'

**Work Order No. : G6-63  
Project Name : DO0005-12  
Project No : 08-014E  
Client Name : USACE FED  
Report Date : 05-14-2008**

**Released By :  
[Redacted]  
Project Manager**

Enclosed are the analytical results associated with the above workorder

As required by the Korea MOE and US EPA, a formal Quality Assurance / Quality Control Program is maintained by SGS Testing Korea. A Copy of our Quality Control Manual that outlines this program is available at your request.

All statements and data in this report are in conformance to the provisions set forth by the SGS Quality Assurance Program.

If you have any questions regarding this report or if we can be of any other assistance, please call SGS Project Manager [Redacted] *bl*

The following descriptors may be found on your report which will serve to further quality the data.

- PS Parent Sample
- MDL Method Detection Limit
- PQL Practical Quantification Limit (reporting limit)
- C QC result has exceeded or is under control limits.
- U The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.
- F The analyte was positively identified but the associated numerical value is between the MDL and the PQL.
- R The data was rejected due to deficiencies in the ability to analyze the sample and meet QC criteria.
- H The natural concentration of the spiked element is so much greater than the spiked concentration spiked so that an accurate determination of spike recovery is not possible.
- B The analyte was found in an associated blank, as well as in the sample.
- D The analyte concentration is the result of a dilution.
- M A matrix effect was present.
- S To be applied to all field screening data.
- T Tentatively identified compound (using GC/MS)
- \* Certified parameter by Nelac
- NA Not Available

Note : Soil samples are reported on a dry weight basis unless otherwise specified

**Cover Page**

*2514*

SGS

## Case Narrative

---

Client Name : USACE FED

Work Order No. : G6-63

Printed Date : 05-14-2008

---

There is no specific case narrative.

Case Narrative 2515

Public Release Requires ROK-US Joint Committee Approval<sup>3/96</sup>





Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Printed Date/Time : 2008-05-14

Project Number : 08-014E

Collected Date/Time : 04-21-2008 13:00

Client Sample ID : LF-Conf-01

Received Date/Time : 04-29-2008 11:00

Site Local : NA

Technical Manager : [Redacted]

Matrix : Soil

Lab Sample ID : G6-63-1 p6

Sample Remarks:

There is no specific sample remarks.

Analyte	Results	%Recovery	PQL (Control Limit)	Unit	Prep. Date	Anal. Date	Cont. ID	Analyst
<b>VOCs</b>								
Benzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Bromobenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Bromochloromethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Bromodichloromethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Bromoform	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Bromomethane	2.62		0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
n-Butylbenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
sec-Butylbenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
tert-Butylbenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Carbon Tetrachloride	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Chlorobenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Chloroethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Chloroform	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Chloromethane	2.75		0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
2-Chlorotoluene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
4-Chlorotoluene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Dibromochloromethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,2-Dibromo-3-chloropropane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,2-Dibromoethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Dibromomethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,2-Dichlorobenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,3-Dichlorobenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,4-Dichlorobenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Dichlorodifluoromethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,1-Dichloroethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,2-Dichloroethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,1-Dichloroethene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
cis-1,2-Dichloroethene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
trans-1,2-Dichloroethene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,2-Dichloropropane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,3-Dichloropropane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
2,2-Dichloropropane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,1-Dichloropropene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
cis-1,3-Dichloropropene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
trans-1,3-Dichloropropene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Ethylbenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Hexachlorobutadiene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Isopropylbenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
p-Isopropyltoluene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Methylene chloride	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Naphthalene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
n-Propylbenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Styrene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,1,1,2-Tetrachloroethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun

Sample Result

25/6

Public Release Requires ROK-US Joint Committee Approval 4/96



Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Printed Date/Time : 2008-05-14

Project Number : 08-014E

Collected Date/Time : 04-21-2008 13:00

Client Sample ID : LF-Conf-01

Received Date/Time : 04-29-2008 11:00

Site Local : NA

Technical Manager : [REDACTED]

Matrix : Soil

Lab Sample ID : G6-63-1 *66*

Sample Remarks:

There is no specific sample remarks.

Analyte	Results	%Recovery	PQL (Control Limit)	Unit	Prep. Date	Anal. Date	Cont. ID	Analyst
1,1,2,2-Tetrachloroethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Tetrachloroethene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Toluene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,2,3-Trichlorobenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,2,4-Trichlorobenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,1,1-Trichloroethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,1,2-Trichloroethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Trichloroethene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Trichlorofluoromethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,2,3-Trichloropropane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,2,4-Trimethylbenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,3,5-Trimethylbenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Vinyl Chloride	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
o-Xylene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
m-Xylene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Acetone	1.39		0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
2-Butanone(MEK)	5.7		0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
2-Hexanoe	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
4-Methyl-2-pentanone	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
p-Xylene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Carbon Disulfide	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Dibromofluoromethane(surr)	2.81	102	50~150	mg/kg	05-01-2008	05-01-2008	A	Minsun
Toluene-d8(surr)	2.73	99	50~160	mg/kg	05-01-2008	05-01-2008	A	Minsun
4-Bromofluorobenzene(surr)	2.86	104	50~150	mg/kg	05-01-2008	05-01-2008	A	Minsun

Pretreatment Method : EPA5035

Method : EPA8260B

Sample Result

2517

Public Release Requires ROK-US Joint Committee Approval <sup>5</sup>/<sub>96</sub>



Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Printed Date/Time : 2008-05-14

Project Number : 08-014E

Collected Date/Time : 04-21-2008 13:15

Client Sample ID : LF-Conf-02

Received Date/Time : 04-29-2008 11:00

Site Local : NA

Technical Manager : [Redacted]

Matrix : Soil

Lab Sample ID : G6-63-2 *b6*

Sample Remarks:

There is no specific sample remarks.

Analyte	Results	%Recovery	PQL (Control Limit)	Unit	Prep. Date	Anal. Date	Cont. ID	Analyst
<b>VOCs</b>								
Benzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Bromobenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Bromochloromethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Bromodichloromethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Bromoform	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Bromomethane	2.39		0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
n-Butylbenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
sec-Butylbenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
tert-Butylbenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Carbon Tetrachloride	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Chlorobenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Chloroethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Chloroform	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Chloromethane	2.47		0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
2-Chlorotoluene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
4-Chlorotoluene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Dibromochloromethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,2-Dibromo-3-chloropropane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,2-Dibromoethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Dibromomethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,2-Dichlorobenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,3-Dichlorobenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,4-Dichlorobenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Dichlorodifluoromethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,1-Dichloroethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,2-Dichloroethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,1-Dichloroethene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
cis-1,2-Dichloroethene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
trans-1,2-Dichloroethene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,2-Dichloropropane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,3-Dichloropropane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
2,2-Dichloropropane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,1-Dichloropropene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
cis-1,3-Dichloropropene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
trans-1,3-Dichloropropene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Ethylbenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Hexachlorobutadiene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Isopropylbenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
p-Isopropyltoluene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Methylene chloride	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Naphthalene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
n-Propylbenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Styrene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,1,1,2-Tetrachloroethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun

Sample Result

2518



Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Printed Date/Time : 2008-05-14

Project Number : 08-014E

Collected Date/Time : 04-21-2008 13:15

Client Sample ID : LF-Conf-02

Received Date/Time : 04-29-2008 11:00

Site Local : NA

Technical Manager: [Redacted]

Matrix : Soil

Lab Sample ID : G6-63-2 *b6*

Sample Remarks:

There is no specific sample remarks.

Analyte	Results	%Recovery	PQL (Control Limit)	Unit	Prep. Date	Anal. Date	Cont. ID	Analyst
1,1,2,2-Tetrachloroethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Tetrachloroethene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Toluene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,2,3-Trichlorobenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,2,4-Trichlorobenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,1,1-Trichloroethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,1,2-Trichloroethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Trichloroethene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Trichlorofluoromethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,2,3-Trichloropropane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,2,4-Trimethylbenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,3,5-Trimethylbenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Vinyl Chloride	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
o-Xylene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
m-Xylene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Acetone	1.66		0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
2-Butanone(MEK)	6.78		0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
2-Hexanoe	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
4-Methyl-2-pentanone	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
p-Xylene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Carbon Disulfide	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Dibromofluoromethane(surr)	3.16	102	50~150	mg/kg	05-01-2008	05-01-2008	A	Minsun
Toluene-d8(surr)	3.17	102	50~150	mg/kg	05-01-2008	05-01-2008	A	Minsun
4-Bromofluorobenzene(surr)	3.15	102	50~150	mg/kg	05-01-2008	05-01-2008	A	Minsun

Pretreatment Method : EPA5035

Method : EPA8260B

Sample Result

*2519*

Public Release Requires ROK-US Joint Committee Approval <sup>7</sup>/<sub>96</sub>



Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Printed Date/Time : 2008-05-14

Project Number : 08-014E

Collected Date/Time : 04-22-2008 17:30

Client Sample ID : LF-Conf-03

Received Date/Time : 04-29-2008 11:00

Site Local : NA

Technical Manager : [Redacted]

Matrix : Soil

Lab Sample ID : G6-63-3 *b6*

Sample Remarks:

There is no specific sample remarks.

Analyte	Results	%Recovery	PQL (Control Limit)	Unit	Prep. Date	Anal. Date	Cont. ID	Analyst
<b>VOCs</b>								
Benzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Bromobenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Bromochloromethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Bromodichloromethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Bromoform	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Bromomethane	1.84		0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
n-Butylbenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
sec-Butylbenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
tert-Butylbenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Carbon Tetrachloride	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Chlorobenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Chloroethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Chloroform	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Chloromethane	1.9		0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
2-Chlorotoluene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
4-Chlorotoluene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Dibromochloromethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,2-Dibromo-3-chloropropane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,2-Dibromoethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Dibromomethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,2-Dichlorobenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,3-Dichlorobenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,4-Dichlorobenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Dichlorodifluoromethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,1-Dichloroethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,2-Dichloroethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,1-Dichloroethene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
cis-1,2-Dichloroethene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
trans-1,2-Dichloroethene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,2-Dichloropropane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,3-Dichloropropane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
2,2-Dichloropropane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,1-Dichloropropene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
cis-1,3-Dichloropropene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
trans-1,3-Dichloropropene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Ethylbenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Hexachlorobutadiene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Isopropylbenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
p-Isopropyltoluene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Methylene chloride	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Naphthalene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
n-Propylbenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Styrene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,1,1,2-Tetrachloroethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun

Sample Result

*2520*



Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Printed Date/Time : 2008-05-14

Project Number : 08-014E

Collected Date/Time : 04-22-2008 17:30

Client Sample ID : LF-Conf-03

Received Date/Time : 04-29-2008 11:00

Site Local : NA

Technical Manager : [REDACTED]

Matrix : Soil

Lab Sample ID : G6-63-3 **b6**

Sample Remarks:

There is no specific sample remarks.

Analyte	Results	%Recovery	PQL (Control Limit)	Unit	Prep. Date	Anal. Date	Cont. ID	Analyst
1,1,2,2-Tetrachloroethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Tetrachloroethene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Toluene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,2,3-Trichlorobenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,2,4-Trichlorobenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,1,1-Trichloroethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,1,2-Trichloroethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Trichloroethene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Trichlorofluoromethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,2,3-Trichloropropane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,2,4-Trimethylbenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,3,5-Trimethylbenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Vinyl Chloride	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
o-Xylene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
m-Xylene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Acetone	1.39		0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
2-Butanone(MEK)	5.65		0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
2-Hexanoe	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
4-Methyl-2-pentanone	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
p-Xylene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Carbon Disulfide	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Dibromofluoromethane(surr)	2.9	104	50~150	mg/kg	05-01-2008	05-01-2008	A	Minsun
Toluene-d8(surr)	2.87	103	50~150	mg/kg	05-01-2008	05-01-2008	A	Minsun
4-Bromofluorobenzene(surr)	2.82	101	50~150	mg/kg	05-01-2008	05-01-2008	A	Minsun

Pretreatment Method : FPA5035

Method : EPA8260B

Sample Result

2521

Public Release Requires ROK-US Joint Committee Approval<sup>9/06</sup>



Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Printed Date/Time : 2008-05-14

Project Number : 08-014E

Collected Date/Time : 04-23-2008 9:30

Client Sample ID : LF-Conf-04

Received Date/Time : 04-29-2008 11:00

Site Local : NA

Technical Manager : [REDACTED]

Matrix : Soil

Lab Sample ID : G6-63-4 *bb*

Sample Remarks:

There is no specific sample remarks.

Analyte	Results	%Recovery	PQL (Control Limit)	Unit	Prep. Date	Anal. Date	Cont. ID	Analyst
<b>VOCs</b>								
Benzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Bromobenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Bromochloromethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Bromodichloromethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Bromoform	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Bromomethane	1.66	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
n-Butylbenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
sec-Butylbenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
tert-Butylbenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Carbon Tetrachloride	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Chlorobenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Chloroethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Chloroform	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Chloromethane	1.69	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
2-Chlorotoluene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
4-Chlorotoluene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Dibromochloromethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,2-Dibromo-3-chloropropane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,2-Dibromoethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Dibromomethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,2-Dichlorobenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,3-Dichlorobenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,4-Dichlorobenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Dichlorodifluoromethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,1-Dichloroethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,2-Dichloroethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,1-Dichloroethene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
cis-1,2-Dichloroethene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
trans-1,2-Dichloroethene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,2-Dichloropropane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,3-Dichloropropane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
2,2-Dichloropropane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,1-Dichloropropene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
cis-1,3-Dichloropropene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
trans-1,3-Dichloropropene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Ethylbenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Hexachlorobutadiene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Isopropylbenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
p-Isopropyltoluene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Methylene chloride	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Naphthalene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
n-Propylbenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Styrene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,1,1,2-Tetrachloroethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun

Sample Result

*2522*



Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Printed Date/Time : 2008-05-14

Project Number : 08-014E

Collected Date/Time : 04-23-2008 9:30

Client Sample ID : LF-Conf-04

Received Date/Time : 04-29-2008 11:00

Site Local : NA

Technical Manager : [Redacted]

Matrix : Soil

Lab Sample ID : G6-63-4 66

Sample Remarks:

There is no specific sample remarks.

Analyte	Results	%Recovery	PQL (Control Limit)	Unit	Prep. Date	Anal. Date	Cont. ID	Analyst
1,1,2,2-Tetrachloroethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Tetrachloroethene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Toluene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,2,3-Trichlorobenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,2,4-Trichlorobenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,1,1-Trichloroethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,1,2-Trichloroethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Trichloroethene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Trichlorofluoromethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,2,3-Trichloropropane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,2,4-Trimethylbenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,3,5-Trimethylbenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Vinyl Chloride	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
o-Xylene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
m-Xylene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Acetone	1.32		0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
2-Butanone(MEK)	5.4		0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
2-Hexanoe	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
4-Methyl-2-pentanone	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
p-Xylene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Carbon Disulfide	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Dibromofluoromethane(surr)	2.75	99	50~150	mg/kg	05-01-2008	05-01-2008	A	Minsun
Toluene d8(surr)	2.83	102	50~150	mg/kg	05 01 2008	05 01 2008	A	Minsun
4-Bromofluorobenzene(surr)	2.95	106	50~150	mg/kg	05-01-2008	05-01-2008	A	Minsun

Pretreatment Method : EPA5035

Method : EPA8260B

Sample Result

2523

Public Release Requires ROK-US Joint Committee Approval<sup>11/96</sup>





Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Printed Date/Time : 2008-05-14

Project Number : 08-014E

Collected Date/Time : 04-25-2008 8:40

Client Sample ID : LF-Conf-05

Received Date/Time : 04-29-2008 11:00

Site Local : NA

Technical Manager : [Redacted]

Matrix : Soil

Lab Sample ID : G6-63-6 *b6*

Sample Remarks:

There is no specific sample remarks.

Analyte	Results	%Recovery	PQL (Control Limit)	Unit	Prep. Date	Anal. Date	Cont. ID	Analyst
<b>VOCs</b>								
Benzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Bromobenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Bromochloromethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Bromodichloromethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Bromoform	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Bromomethane	1.49		0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
n-Butylbenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
sec-Butylbenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
tert-Butylbenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Carbon Tetrachloride	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Chlorobenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Chloroethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Chloroform	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Chloromethane	1.55		0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
2-Chlorotoluene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
4-Chlorotoluene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Dibromochloromethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,2-Dibromo-3-chloropropane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,2-Dibromoethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Dibromomethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,2-Dichlorobenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,3-Dichlorobenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,4-Dichlorobenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Dichlorodifluoromethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,1-Dichloroethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,2-Dichloroethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,1-Dichloroethene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
cis-1,2-Dichloroethene	1.22		0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
trans-1,2-Dichloroethene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,2-Dichloropropane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,3-Dichloropropane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
2,2-Dichloropropane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,1-Dichloropropene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
cis-1,3-Dichloropropene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
trans-1,3-Dichloropropene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Ethylbenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Hexachlorobutadiene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Isopropylbenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
p-Isopropyltoluene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Methylene chloride	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Naphthalene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
n-Propylbenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Styrene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,1,1,2-Tetrachloroethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun

Sample Result

*2524*



Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Printed Date/Time : 2008-05-14

Project Number : 08-014E

Collected Date/Time : 04-25-2008 8:40

Client Sample ID : LF-Conf-05

Received Date/Time : 04-29-2008 11:00

Site Local : NA

Technical Manager : [REDACTED]

Matrix : Soil

Lab Sample ID : G6-63-6 *b6*

Sample Remarks:

There is no specific sample remarks.

Analyte	Results	%Recovery	PQL (Control Limit)	Unit	Prep. Date	Anal. Date	Cont. ID	Analyst
1,1,2,2-Tetrachloroethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Tetrachloroethene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Toluene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,2,3-Trichlorobenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,2,4-Trichlorobenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,1,1-Trichloroethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,1,2-Trichloroethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Trichloroethene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Trichlorofluoromethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,2,3-Trichloropropane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,2,4-Trimethylbenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,3,5-Trimethylbenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Vinyl Chloride	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
o-Xylene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
m-Xylene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Acetone	1.31		0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
2-Butanone(MEK)	5.01		0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
2-Hexanoe	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
4-Methyl-2-pentanone	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
p-Xylene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Carbon Disulfide	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Dibromofluoromethane(surr)	2.7	102	50~150	mg/kg	05-01-2008	05-01-2008	A	Minsun
Tolucnc-d8(surr)	2.67	101	50~150	mg/kg	05-01-2008	05-01-2008	A	Minsun
4-Bromofluorobenzene(surr)	2.84	108	50~150	mg/kg	05-01-2008	05-01-2008	A	Minsun

Pretreatment Method : EPA5035

Method : EPA8260B

Sample Result

*2525*

Public Release Requires ROK-US Joint Committee Approval <sup>15</sup>/<sub>96</sub>



Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Printed Date/Time : 2008-05-14

Project Number : 08-014E

Collected Date/Time : 04-25-2008 10:30

Client Sample ID : LF-Liquid

Received Date/Time : 04-29-2008 11:00

Site Local : NA

Technical Manager : [Redacted]

Matrix : Liquid

Lab Sample ID : 08-007 b6

Sample Remarks:

There is no specific sample remarks.

Analyte	Results	%Recovery	PQL (Control Limit)	Unit	Prep. Date	Anal. Date	Cont. ID	Analyst
<b>Heavy Metals</b>								
Arsenic, As	N.D.	U	4.000	mg/kg	04-29-2008	05-08-2008	A	Jinhee
Cadmium, Cd	N.D.	U	0.500	mg/kg	04-29-2008	05-08-2008	A	Jinhee
Chromium, Cr	N.D.	U	0.500	mg/kg	04-29-2008	05-08-2008	A	Jinhee
Cobalt, Co	N.D.	U	0.600	mg/kg	04-29-2008	05-08-2008	A	Jinhee
Lead, Pb	N.D.	U	0.400	mg/kg	04-29-2008	05-08-2008	A	Jinhee
Nickel, Ni	N.D.	U	0.500	mg/kg	04-29-2008	05-08-2008	A	Jinhee
Silver, Ag	N.D.	U	0.500	mg/kg	04-29-2008	05-08-2008	A	Jinhee
					Pretreatment Method : EPA3050			
					Method : EPA6010			
Mercury, Hg	N.D.	F	1	µg/Kg	05-07-2008	05-08-2008	A	Jinhee
					Pretreatment Method : EPA7473			
					Method : EPA7473			
<b>Herbicides</b>								
Dicamba	N.D.	U	0.02	mg/kg	05-09-2008	05-13-2008	A	ken
Dichloroprop	N.D.	U	0.02	mg/kg	05-09-2008	05-13-2008	A	ken
2,4-D	N.D.	U	0.02	mg/kg	05-09-2008	05-13-2008	A	ken
2,4,5-TP(Silvex)	N.D.	U	0.02	mg/kg	05-09-2008	05-13-2008	A	ken
2,4,5 T	N.D.	U	0.02	mg/kg	05-09-2008	05-13-2008	A	ken
2,4-DB	N.D.	U	0.02	mg/kg	05-09-2008	05-13-2008	A	ken
Picloram	N.D.	U	0.02	mg/kg	05-09-2008	05-13-2008	A	ken
2,4-DCAA(surr)	0.126	83	45-140	mg/kg	05-09-2008	05-13-2008	A	ken
					Pretreatment Method : EPA8151			
					Method : EPA8151			
<b>OCPs</b>								
Aldrin	N.D.	U	0.02	mg/kg	05-08-2008	05-08-2008	A	ken
a-BHC	N.D.	U	0.02	mg/kg	05-08-2008	05-08-2008	A	ken
b-BHC	N.D.	U	0.02	mg/kg	05-08-2008	05-08-2008	A	ken
d-BHC	N.D.	U	0.02	mg/kg	05-08-2008	05-08-2008	A	ken
r-BHC	N.D.	U	0.02	mg/kg	05-08-2008	05-08-2008	A	ken
a-Chlordane	N.D.	U	0.02	mg/kg	05-08-2008	05-08-2008	A	ken
r-Chlordane	N.D.	U	0.02	mg/kg	05-08-2008	05-08-2008	A	ken
4,4'-DDD	0.037		0.02	mg/kg	05-08-2008	05-08-2008	A	ken
4,4'-DDE	0.029		0.02	mg/kg	05-08-2008	05-08-2008	A	ken
4,4'-DDT	0.109		0.02	mg/kg	05-08-2008	05-08-2008	A	ken
Dieldrin	N.D.	U	0.02	mg/kg	05-08-2008	05-08-2008	A	ken
Endosulfan I	N.D.	U	0.02	mg/kg	05-08-2008	05-08-2008	A	ken
Endosulfan II	N.D.	U	0.02	mg/kg	05-08-2008	05-08-2008	A	ken
Endosulfan sulfate	N.D.	U	0.02	mg/kg	05-08-2008	05-08-2008	A	ken
Endrin	N.D.	U	0.02	mg/kg	05-08-2008	05-08-2008	A	ken

Sample Result

2596



Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Printed Date/Time : 2008-05-14

Project Number : 08-014E

Collected Date/Time : 04-25-2008 10:30

Client Sample ID : LF-Liquid

Received Date/Time : 04-29-2008 11:00

Site Local : NA

Technical Manager : [Redacted]

Matrix : Liquid

Lab Sample ID : G6-63-7 b6

Sample Remarks:

There is no specific sample remarks.

Analyte	Results	%Recovery	PQL (Control Limit)	Unit	Prep. Date	Anal. Date	Cont. ID	Analyst
Endrin aldehyde	N.D.	U	0.02	mg/kg	05-08-2008	05-08-2008	A	ken
Heptachlor	N.D.	U	0.02	mg/kg	05-08-2008	05-08-2008	A	ken
Heptachlor epoxide	N.D.	U	0.02	mg/kg	05-08-2008	05-08-2008	A	ken
Methoxychlor	N.D.	U	0.02	mg/kg	05-08-2008	05-08-2008	A	ken
Toxaphene	N.D.	U	0.02	mg/kg	05-08-2008	05-08-2008	A	ken
Decachlorobiphenyl(surr)	0.097	106	40~140	mg/kg	05-08-2008	05-08-2008	A	ken

Pretreatment Method : EPA3545A

Method : EPA8081

### OPPs

Azinphos-methyl	N.D.	U	0.01	mg/kg	05-08-2008	05-09-2008	A	ken
Bolstar(sulprofos)	N.D.	U	0.01	mg/kg	05-08-2008	05-09-2008	A	ken
Chlorpyrifos	N.D.	U	0.01	mg/kg	05-08-2008	05-09-2008	A	ken
Coumaphos	N.D.	U	0.01	mg/kg	05-08-2008	05-09-2008	A	ken
Demeton-O	N.D.	U	0.01	mg/kg	05-08-2008	05-09-2008	A	ken
Demeton-S	N.D.	U	0.01	mg/kg	05-08-2008	05-09-2008	A	ken
Diazinon	N.D.	U	0.01	mg/kg	05-08-2008	05-09-2008	A	ken
Disulfoton	N.D.	U	0.01	mg/kg	05-08-2008	05-09-2008	A	ken
Ethoprop	N.D.	U	0.01	mg/kg	05-08-2008	05-09-2008	A	ken
Fensulfotion	N.D.	U	0.01	mg/kg	05-08-2008	05-09-2008	A	ken
Fenthion	N.D.	U	0.01	mg/kg	05-08-2008	05-09-2008	A	ken
Merphos	N.D.	U	0.01	mg/kg	05-08-2008	05-09-2008	A	ken
Mevinphos	N.D.	U	0.01	mg/kg	05-08-2008	05-09-2008	A	ken
Naled	N.D.	U	0.01	mg/kg	05-08-2008	05-09-2008	A	ken
Parathion-methyl	N.D.	U	0.01	mg/kg	05-08-2008	05-09-2008	A	ken
Phorate	N.D.	U	0.01	mg/kg	05-08-2008	05-09-2008	A	ken
Ronnel	N.D.	U	0.01	mg/kg	05-08-2008	05-09-2008	A	ken
Stirophos(tetrachlorovinphos)	N.D.	U	0.01	mg/kg	05-08-2008	05-09-2008	A	ken
Tokuthion(protothiofos)	N.D.	U	0.01	mg/kg	05-08-2008	05-09-2008	A	ken
Trichloronate	N.D.	U	0.01	mg/kg	05-08-2008	05-09-2008	A	ken
Triphenyl Phosphate(surr)	1.46	95	50~140	mg/kg	05-08-2008	05-09-2008	A	ken

Pretreatment Method : EPA3545A

Method : EPA8141

### SVOCs

Acenaphthene	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Acenaphthylene	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Anthracene	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Benz(a)anthracene	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Benzo(b)fluorathene	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Benzo(k)fluorathene	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Benzo(a)pyrene	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Benzo(g,h,i)perylene	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Bis(2-Chloroethyl)ether	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun

Sample Result

2527

Public Release Requires ROK-US Joint Committee Approval <sup>17</sup>/<sub>96</sub>



Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Printed Date/Time : 2008-05-14

Project Number : 08-014E

Collected Date/Time : 04-25-2008 10:30

Client Sample ID : LF-Liquid

Received Date/Time : 04-29-2008 11:00

Site Local : NA

Technical Manager : [REDACTED]

Matrix : Liquid

Lab Sample ID : 06-63-7 *b6*

Sample Remarks:

There is no specific sample remarks.

Analyte	Results	%Recovery	PQL (Control Limit)	Unit	Prep. Date	Anal. Date	Cont. ID	Analyst
Bis(2-chloroethoxy)methane	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Bis(2-chloroisopropyl)ether	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Bis(2-ethylhexyl) phthalate	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
4-Bromophenyl phenyl ether	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Butyl benzyl phthalate	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Carbazole	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
4-Chloroaniline	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
4-Chloro-3-methylphenol	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
2-Chloronaphthalene	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
2-Chlorophenol	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
4-Chlorophenyl phenyl ether	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Chrysene	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Dibenz(a,h)anthracene	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Dibenzofuran	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Di-n-butyl phthalate	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
1,2-Dichlorobenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
1,3-Dichlorobenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
1,4-Dichlorobenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
3,3'-Dichlorobenzidine	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
2,4-Dichlorophenol	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Diethyl phthalate	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
2,4-Dimethylphenol	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Dimethyl phthalate	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
2-Methyl-4,6-dinitrophenol	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
2,4-Dinitrophenol	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
2,4-Dinitrotoluene	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
2,6 Dinitrotoluene	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Di-n-octyl phthalate	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Fluoranthene	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Fluorene	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Hexachlorobenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Hexachlorobutadiene	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Hexachlorocyclopentadiene	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Hexachloroethane	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Indeno(1,2,3-cd)pyrene	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Isophorone	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
2-Methylnaphthalene	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
2-Methylphenol	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
4-Methylphenol	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Naphthalene	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
2-Nitroaniline	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
3-Nitroaniline	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
4-Nitroaniline	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Nitrobenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
2-Nitrophenol	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
4-Nitrophenol	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
N-Nitrosodiphenylamine	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun

Sample Result

2528



Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Printed Date/Time : 2008-05-14

Project Number : 08-014E

Collected Date/Time : 04-25-2008 10:30

Client Sample ID : LF-Liquid

Received Date/Time : 04-29-2008 11:00

Site Local : NA

Technical Manager : [Redacted]

Matrix : Liquid

Lab Sample ID : G6-63-7 [Redacted]

Sample Remarks:

There is no specific sample remarks.

Analyte	Results	%Recovery	PQL (Control Limit)	Unit	Prep. Date	Anal. Date	Cont. ID	Analyst
N-Nitrosodi-n-propylamine	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Pentachlorophenol	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Phenanthrene	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Phenol	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Pyrene	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
1,2,4-Trichlorobenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
2,4,5-Trichlorophenol	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
2,4,6-Trichlorophenol	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
2-Fluorophenol(surr)	5.6658	71	50~150	mg/kg	05-01-2008	05-09-2008	A	Minsun
2,4,6-Tribromophenol(surr)	8.6601	109	50~150	mg/kg	05-01-2008	05-09-2008	A	Minsun
Terphenyl-d14(surr)	4.1025	103	50~150	mg/kg	05-01-2008	05-09-2008	A	Minsun
Nitrobenzene-d5(surr)	3.4121	86	50~150	mg/kg	05-01-2008	05-09-2008	A	Minsun

Pre-treatment Method : EPA3550

Method : EPA8270C

**VOCs**

Benzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Bromobenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Bromochloromethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Bromodichloromethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Bromoform	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Bromomethane	1.93	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
n-Butylbenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
sec-Butylbenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
tert-Butylbenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Carbon Tetrachloride	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Chlorobenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Chloroethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Chloroform	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Chloromethane	2.06	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
2-Chlorotoluene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
4-Chlorotoluene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Dibromochloromethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,2-Dibromo-3-chloropropane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,2-Dibromoethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Dibromomethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,2-Dichlorobenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,3-Dichlorobenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,4-Dichlorobenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Dichlorodifluoromethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,1-Dichloroethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,2-Dichloroethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,1-Dichloroethene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
cis-1,2-Dichloroethene	6.52	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
trans-1,2-Dichloroethene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun

**Sample Result**

2529



Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Printed Date/Time : 2008-05-14

Project Number : 08-014E

Collected Date/Time : 04-25-2008 10:30

Client Sample ID : LF-Liquid

Received Date/Time : 04-29-2008 11:00

Site Local : NA

Technical Manager : [Redacted]

Matrix : Liquid

Lab Sample ID : 08-03-7 b6

Sample Remarks:

There is no specific sample remarks.

Analyte	Results	%Recovery	PQL (Control Limit)	Unit	Prep. Date	Anal. Date	Cont. ID	Analyst
1,2-Dichloropropane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,3-Dichloropropane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
2,2-Dichloropropane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,1-Dichloropropene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
cis-1,3-Dichloropropene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
trans-1,3-Dichloropropene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Ethylbenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Hexachlorobutadiene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Isopropylbenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
p-Isopropyltoluene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Methylene chloride	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Naphthalene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
n-Propylbenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Styrene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,1,1,2-Tetrachloroethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,1,2,2-Tetrachloroethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Tetrachloroethene	5.75		0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Toluene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,2,3-Trichlorobenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,2,4-Trichlorobenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,1,1-Trichloroethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,1,2-Trichloroethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Trichloroethene	1.04		0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Trichlorofluoromethane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,2,3-Trichloropropane	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,2,4-Trimethylbenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
1,3,5-Trimethylbenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Vinyl Chloride	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
o-Xylene	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
m-Xylene	0.658		0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Acetone	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
2-Butanone(MEK)	1.24		0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
2-Hexanoe	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
4-Methyl-2-pentanone	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
p-Xylene	0.658		0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Carbon Disulfide	N.D.	U	0.5	mg/kg	05-01-2008	05-01-2008	A	Minsun
Dibromofluoromethane(surr)	4.66	102	50~150	mg/kg	05-01-2008	05-01-2008	A	Minsun
Toluene-d8(surr)	4.68	102	50~150	mg/kg	05-01-2008	05-01-2008	A	Minsun
4-Bromofluorobenzene(surr)	5.33	116	50~150	mg/kg	05-01-2008	05-01-2008	A	Minsun

Pretreatment Method : EPA5035

Method : EPA8260B

Sample Result

2530



Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Printed Date/Time : 2008-05-14

Project Number : 08-014E

Collected Date/Time : 04-25-2008 10:30

Client Sample ID : White-Powder

Received Date/Time : 04-29-2008 11:00

Site Local : NA

Technical Manager : [REDACTED]

Matrix : Solid

Lab Sample ID : G6-63-8 *pb*

Sample Remarks: -

According to the FTIR testing result, the sample consists of calcium carbonate (CaCO3)

Analyte	Results	%Recovery	PQL (Control Limit)	Unit	Prep. Date	Anal. Date	Cont. ID	Analyst
<b>Herbicides</b>								
Dicamba	N.D.	U	0.02	mg/kg	05-09-2008	05-13-2008	A	ken
Dichloroprop	N.D.	U	0.02	mg/kg	05-09-2008	05-13-2008	A	ken
2,4-D	N.D.	U	0.02	mg/kg	05-09-2008	05-13-2008	A	ken
2,4,5-TP(Silvex)	N.D.	U	0.02	mg/kg	05-09-2008	05-13-2008	A	ken
2,4,5-T	N.D.	U	0.02	mg/kg	05-09-2008	05-13-2008	A	ken
2,4-DB	N.D.	U	0.02	mg/kg	05-09-2008	05-13-2008	A	ken
Picloram	N.D.	U	0.02	mg/kg	05-09-2008	05-13-2008	A	ken
2,4-DCAA(surr)	0.085	85	45~140	mg/kg	05-09-2008	05-13-2008	A	ken

Pre-treatment Method : EPA8151

Method : EPA8151

<b>OCPs</b>								
Aldrin	N.D.	U	0.02	mg/kg	05-08-2008	05-08-2008	A	ken
a-BHC	N.D.	U	0.02	mg/kg	05-08-2008	05-08-2008	A	ken
b-BHC	N.D.	U	0.02	mg/kg	05-08-2008	05-08-2008	A	ken
d-BHC	N.D.	U	0.02	mg/kg	05-08-2008	05-08-2008	A	ken
r-BHC	N.D.	U	0.02	mg/kg	05-08-2008	05-08-2008	A	ken
a-Chlordane	N.D.	U	0.02	mg/kg	05-08-2008	05-08-2008	A	ken
r-Chlordane	N.D.	U	0.02	mg/kg	05-08-2008	05-08-2008	A	ken
4,4'-DDD	N.D.	F	0.02	mg/kg	05-08-2008	05-08-2008	A	ken
4,4'-DDE	0.128		0.02	mg/kg	05-08-2008	05-08-2008	A	ken
4,4'-DDT	N.D.	F	0.02	mg/kg	05-08-2008	05-08-2008	A	ken
Dieldrin	N.D.	U	0.02	mg/kg	05-08-2008	05-08-2008	A	ken
Endosulfan I	N.D.	U	0.02	mg/kg	05-08-2008	05-08-2008	A	ken
Endosulfan II	N.D.	U	0.02	mg/kg	05-08-2008	05-08-2008	A	ken
Endosulfan sulfate	N.D.	U	0.02	mg/kg	05-08-2008	05-08-2008	A	ken
Endrin	N.D.	U	0.02	mg/kg	05-08-2008	05-08-2008	A	ken
Endrin aldehyde	N.D.	U	0.02	mg/kg	05-08-2008	05-08-2008	A	ken
Heptachlor	N.D.	U	0.02	mg/kg	05-08-2008	05-08-2008	A	ken
Heptachlor epoxide	N.D.	U	0.02	mg/kg	05-08-2008	05-08-2008	A	ken
Methoxychlor	N.D.	U	0.02	mg/kg	05-08-2008	05-08-2008	A	ken
Toxaphene	N.D.	U	0.02	mg/kg	05-08-2008	05-08-2008	A	ken
Decachlorobiphenyl(surr)	0.061	101	40~140	mg/kg	05-08-2008	05-08-2008	A	ken

Pre-treatment Method : EPA3545A

Method : EPA8081

<b>OPPs</b>								
Azinphos-methyl	N.D.	U	0.01	mg/kg	05-08-2008	05-09-2008	A	ken
Bolstar(sulprofos)	N.D.	U	0.01	mg/kg	05-08-2008	05-09-2008	A	ken
Chlorpyrifos	N.D.	U	0.01	mg/kg	05-08-2008	05-09-2008	A	ken
Coumaphos	N.D.	U	0.01	mg/kg	05-08-2008	05-09-2008	A	ken
Demeton-O	N.D.	U	0.01	mg/kg	05-08-2008	05-09-2008	A	ken

Sample Result

2531





Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Printed Date/Time : 2008-05-14

Project Number : 08-014E

Collected Date/Time : 04-25-2008 10:30

Client Sample ID : White-Powder

Received Date/Time : 04-29-2008 11:00

Site Local : NA

Technical Manager : [REDACTED]

Matrix : Solid

Lab Sample ID : G6-63-8

Sample Remarks: According to the FTIR testing result, the sample consists of calcium carbonate (CaCO3)

Analyte	Results	%Recovery	PQL (Control Limit)	Unit	Prep. Date	Anal. Date	Cont. ID	Analyst
Demeton-S	N.D.	U	0.01	mg/kg	05-08-2008	05-09-2008	A	ken
Diazinon	N.D.	U	0.01	mg/kg	05-08-2008	05-09-2008	A	ken
Disulfoton	N.D.	U	0.01	mg/kg	05-08-2008	05-09-2008	A	ken
Ethoprop	N.D.	U	0.01	mg/kg	05-08-2008	05-09-2008	A	ken
Fensulfothion	N.D.	U	0.01	mg/kg	05-08-2008	05-09-2008	A	ken
Fenthion	N.D.	U	0.01	mg/kg	05-08-2008	05-09-2008	A	ken
Merphos	N.D.	U	0.01	mg/kg	05-08-2008	05-09-2008	A	ken
Mevinphos	N.D.	U	0.01	mg/kg	05-08-2008	05-09-2008	A	ken
Naled	N.D.	U	0.01	mg/kg	05-08-2008	05-09-2008	A	ken
Parathion-methyl	N.D.	U	0.01	mg/kg	05-08-2008	05-09-2008	A	ken
Phorate	N.D.	U	0.01	mg/kg	05-08-2008	05-09-2008	A	ken
Ronnel	N.D.	U	0.01	mg/kg	05-08-2008	05-09-2008	A	ken
Stirophos(tetrachlorovinphos)	N.D.	U	0.01	mg/kg	05-08-2008	05-09-2008	A	ken
Tokuthion(protothiofos)	N.D.	U	0.01	mg/kg	05-08-2008	05-09-2008	A	ken
Trichloronate	N.D.	U	0.01	mg/kg	05-08-2008	05-09-2008	A	ken
Triphenyl Phosphate(surr)	0.806	81	50~140	mg/kg	05-08-2008	05-09-2008	A	ken

Pretreatment Method : EPA3545A

Method : EPA8141

SVOCs

Acenaphthene	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Acenaphthylene	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Anthracene	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Benz(a)anthracene	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Benzo(b)fluorathene	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Benzo(k)fluorathene	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Benzo(a)pyrene	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Benzo(g,h,i)perylene	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Bis(2-Chloroethyl)ether	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Bis(2-chloroethoxy)methane	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Bis(2-chloroisopropyl)ether	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Bis(2-ethylhexyl) phthalate	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
4-Bromophenyl phenyl ether	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Butyl benzyl phthalate	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Carbazole	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
4-Chloroaniline	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
4-Chloro-3-methylphenol	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
2-Chloronaphthalene	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
2-Chlorophenol	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
4-Chlorophenyl phenyl ether	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Chrysene	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Dibenz(a,h)anthracene	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Dibenzofuran	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Di-n-butyl phthalate	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
1,2-Dichlorobenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun

Sample Result

2532



Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Printed Date/Time : 2008-05-14

Project Number : 08-014E

Collected Date/Time : 04-25-2008 10:30

Client Sample ID : White-Powder

Received Date/Time : 04-29-2008 11:00

Site Local : NA

Technical Manager : [REDACTED]

Matrix : Solid

Lab Sample ID : 06-63-8 b6

Sample Remarks: According to the FTIR testing result, the sample consists of calcium carbonate (CaCO3)

Analyte	Results	%Recovery	PQL (Control Limit)	Unit	Prep. Date	Anal. Date	Cont. ID	Analyst
1,3-Dichlorobenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
1,4-Dichlorobenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
3,3'-Dichlorobenzidine	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
2,4-Dichlorophenol	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Diethyl phthalate	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
2,4-Dimethylphenol	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Dimethyl phthalate	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
2-Methyl-4,6-dinitrophenol	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
2,4-Dinitrophenol	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
2,4-Dinitrotoluene	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
2,6 Dinitrotoluene	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Di-n-octyl phthalate	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Fluoranthene	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Fluorene	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Hexachlorobenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Hexachlorobutadiene	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Hexachlorocyclopentadiene	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Hexachloroethane	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Indeno(1,2,3-cd)pyrene	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Isophorone	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
2-Methylnaphthalene	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
2-Methylphenol	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
4-Methylphenol	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Naphthalene	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
2-Nitroaniline	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
3-Nitroaniline	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
4-Nitroaniline	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Nitrobenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
2-Nitrophenol	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
4-Nitrophenol	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
N-Nitrosodiphenylamine	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
N-Nitrosodi-n-propylamine	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Pentachlorophenol	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Phenanthrene	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Phenol	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
Pyrene	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
1,2,4-Trichlorobenzene	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
2,4,5-Trichlorophenol	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
2,4,6-Trichlorophenol	N.D.	U	0.5	mg/kg	05-01-2008	05-09-2008	A	Minsun
2-Fluorophenol(surr)	4.8558	73	50~150	mg/kg	05-01-2008	05-09-2008	A	Minsun
2,4,6-Tribromophenol(surr)	6.3801	96	50~150	mg/kg	05-01-2008	05-09-2008	A	Minsun
Terphenyl-d14(surr)	3.2219	97	50~150	mg/kg	05-01-2008	05-09-2008	A	Minsun
Nitrobenzene-d5(surr)	2.713	82	50~150	mg/kg	05-01-2008	05-09-2008	A	Minsun

Pretreatment Method : EPA3550

Method : EPA8270C

Sample Result

2533

## QC Summary

Analyte Surrogate	QC TYPE	Extraction Batch No.	Analysis Batch No.
<b>Heavy Metals</b>			
Arsenic, As	MB,LCS,LCSD,MS,MSD	33-03-40	67-02-14
Mercury, Hg	MB,LCS,LCSD,MS,MSD	70-01-39	70-01-39
Cadmium, Cd	MB,LCS,LCSD,MS,MSD	33-03-40	67-02-14
Chromium, Cr	MB,LCS,LCSD,MS,MSD	33-03-40	67-02-14
Cobalt, Co	MB,LCS,LCSD,MS,MSD	33-03-40	67-02-14
Lead, Pb	MB,LCS,LCSD,MS,MSD	33-03-40	67-02-14
Nickel, Ni	MB,LCS,LCSD,MS,MSD	33-03-40	67-02-14
Silver, Ag	MB,LCS,LCSD,MS,MSD	33-03-40	67-02-14
<b>Herbicides</b>			
Dicamba	MB,LCS,LCSD	55-01-16	09-02-39
Dichloroprop	MB,LCS,LCSD	55-01-16	09-02-39
2,4-D	MB,LCS,LCSD	55-01-16	09-02-39
2,4,5-TP(Silvex)	MB,LCS,LCSD	55-01-16	09-02-39
2,4,5-T	MB,LCS,LCSD	55-01-16	09-02-39
2,4-DB	MB,LCS,LCSD	55-01-16	09-02-39
Picloram	MB,LCS,LCSD	55-01-16	09-02-39
2,4-DCAA	MB,LCS,LCSD	55-01-16	09-02-39
<b>OCPs</b>			
Aldrin	MB,LCS,LCSD	55-01-16	09-02-38
a-BHC	MB,LCS,LCSD	55-01-16	09-02-38
b-BHC	MB,LCS,LCSD	55-01-16	09-02-38
d-BHC	MB,LCS,LCSD	55-01-16	09-02-38
r-BHC	MB,LCS,LCSD	55-01-16	09-02-38
a-Chlordane	MB,LCS,LCSD	55-01-16	09-02-38
r-Chlordane	MB,LCS,LCSD	55-01-16	09-02-38
4,4'-DDD	MB,LCS,LCSD	55-01-16	09-02-38
4,4'-DDE	MB,LCS,LCSD	55-01-16	09-02-38
4,4'-DDT	MB,LCS,LCSD	55-01-16	09-02-38
Dieldrin	MB,LCS,LCSD	55-01-16	09-02-38
Endosulfan I	MB,LCS,LCSD	55-01-16	09-02-38
Endosulfan II	MB,LCS,LCSD	55-01-16	09-02-38
Endosulfan sulfate	MB,LCS,LCSD	55-01-16	09-02-38
Endrin	MB,LCS,LCSD	55-01-16	09-02-38
Endrin aldehyde	MB,LCS,LCSD	55-01-16	09-02-38
Heptachlor	MB,LCS,LCSD	55-01-16	09-02-38
Heptachlor epoxide	MB,LCS,LCSD	55-01-16	09-02-38

QC Summary

2534

Analyte Surrogate	QC TYPE	Extraction Batch No.	Analysis Batch No.
Methoxychlor	MB,LCS,LCSD	55-01-16	09-02-38
Toxaphene	MB,LCS,LCSD	55-01-16	09-02-38
Decachlorobiphenyl	MB,LCS,LCSD	55-01-16	09-02-38
<b>OPPs</b>			
Azinphos-methyl	MB,LCS,LCSD	55-01-16	41-02-13
Bolstar(sulprofos)	MB,LCS,LCSD	55-01-16	41-02-13
Chlorpyrifos	MB,LCS,LCSD	55-01-16	41-02-13
Coumaphos	MB,LCS,LCSD	55-01-16	41-02-13
Demeton-O	MB,LCS,LCSD	55-01-16	41-02-13
Demeton-S	MB,LCS,LCSD	55-01-16	41-02-13
Diazinon	MB,LCS,LCSD	55-01-16	41-02-13
Disulfoton	MB,LCS,LCSD	55-01-16	41-02-13
Ethoprop	MB,LCS,LCSD	55-01-16	41-02-13
Fensulfothion	MB,LCS,LCSD	55-01-16	41-02-13
Fenthion	MB,LCS,LCSD	55-01-16	41-02-13
Merphos	MB,LCS,LCSD	55-01-16	41-02-13
Mevinphos	MB,LCS,LCSD	55-01-16	41-02-13
Naled	MB,LCS,LCSD	55-01-16	41-02-13
Parathion-methyl	MB,LCS,LCSD	55-01-16	41-02-13
Phorate	MB,LCS,LCSD	55-01-16	41-02-13
Ronnel	MB,LCS,LCSD	55-01-16	41-02-13
Stirophos(tetrachlorovinphos)	MB,LCS,LCSD	55-01-16	41-02-13
Tokuthion(protothiofos)	MB,LCS,LCSD	55-01-16	41-02-13
Trichloronate	MB,LCS,LCSD	55-01-16	41-02-13
Triphenyl Phosphate	MB,LCS,LCSD	55-01-16	41-02-13
<b>SVOCs</b>			
Acenaphthene	MB,LCS,LCSD	05-05-40	46-02-26
Acenaphthylene	MB,LCS,LCSD	05-05-40	46-02-26
Anthracene	MB,LCS,LCSD	05-05-40	46-02-26
Benz(a)anthracene	MB,LCS,LCSD	05-05-40	46-02-26
Benzo(b)fluorathene	MB,LCS,LCSD	05-05-40	46-02-26
Benzo(k)fluorathene	MB,LCS,LCSD	05-05-40	46-02-26
Benzo(a)pyrene	MB,LCS,LCSD	05-05-40	46-02-26
Benzo(g,h,i)perylene	MB,LCS,LCSD	05-05-40	46-02-26
Bis(2-Chloroethyl)ether	MB,LCS,LCSD	05-05-40	46-02-26
Bis(2-chloroethoxy)methane	MB,LCS,LCSD	05-05-40	46-02-26
Bis(2-chloroisopropyl)ether	MB,LCS,LCSD	05-05-40	46-02-26
Bis(2-ethylhexyl) phthalate	MB,LCS,LCSD	05-05-40	46-02-26
4-Bromophenyl phenyl ether	MB,LCS,LCSD	05-05-40	46-02-26
Butyl benzyl phthalate	MB,LCS,LCSD	05-05-40	46-02-26

QC Summary

2535

Analyte Surrogate	QC TYPE	Extraction Batch No.	Analysis Batch No.
Carbazole	MB,LCS,LCSD	05-05-40	46-02-26
4-Chloroaniline	MB,LCS,LCSD	05-05-40	46-02-26
4-Chloro-3-methylphenol	MB,LCS,LCSD	05-05-40	46-02-26
2-Chloronaphthalene	MB,LCS,LCSD	05-05-40	46-02-26
2-Chlorophenol	MB,LCS,LCSD	05-05-40	46-02-26
4-Chlorophenyl phenyl ether	MB,LCS,LCSD	05-05-40	46-02-26
Chrysene	MB,LCS,LCSD	05-05-40	46-02-26
Dibenz(a,h)anthracene	MB,LCS,LCSD	05-05-40	46-02-26
Dibenzofuran	MB,LCS,LCSD	05-05-40	46-02-26
Di-n-butyl phthalate	MB,LCS,LCSD	05-05-40	46-02-26
1,2-Dichlorobenzene	MB,LCS,LCSD	05-05-40	46-02-26
1,3-Dichlorobenzene	MB,LCS,LCSD	05-05-40	46-02-26
1,4-Dichlorobenzene	MB,LCS,LCSD	05-05-40	46-02-26
3,3'-Dichlorobenzidine	MB,LCS,LCSD	05-05-40	46-02-26
2,4-Dichlorophenol	MB,LCS,LCSD	05-05-40	46-02-26
Diethyl phthalate	MB,LCS,LCSD	05-05-40	46-02-26
2,4-Dimethylphenol	MB,LCS,LCSD	05-05-40	46-02-26
Dimethyl phthalate	MB,LCS,LCSD	05-05-40	46-02-26
2-Methyl-4,6-dinitrophenol	MB,LCS,LCSD	05-05-40	46-02-26
2,4-Dinitrophenol	MB,LCS,LCSD	05-05-40	46-02-26
2,4-Dinitrotoluene	MB,LCS,LCSD	05-05-40	46-02-26
2,6 Dinitrotoluene	MB,LCS,LCSD	05-05-40	46-02-26
Di-n-octyl phthalate	MB,LCS,LCSD	05-05-40	46-02-26
Fluoranthene	MB,LCS,LCSD	05-05-40	46-02-26
Fluorene	MB,LCS,LCSD	05-05-40	46-02-26
Hexachlorobenzene	MB,LCS,LCSD	05-05-40	46-02-26
Hexachlorobutadiene	MB,LCS,LCSD	05-05-40	46-02-26
Hexachlorocyclopentadiene	MB,LCS,LCSD	05-05-40	46-02-26
Hexachloroethane	MB,LCS,LCSD	05-05-40	46-02-26
Indeno(1,2,3-cd)pyrene	MB,LCS,LCSD	05-05-40	46-02-26
Isophorone	MB,LCS,LCSD	05-05-40	46-02-26
2-Methylnaphthalene	MB,LCS,LCSD	05-05-40	46-02-26
2-Methylphenol	MB,LCS,LCSD	05-05-40	46-02-26
4-Methylphenol	MB,LCS,LCSD	05-05-40	46-02-26
Naphthalene	MB,LCS,LCSD	05-05-40	46-02-26
2-Nitroaniline	MB,LCS,LCSD	05-05-40	46-02-26
3-Nitroaniline	MB,LCS,LCSD	05-05-40	46-02-26
4-Nitroaniline	MB,LCS,LCSD	05-05-40	46-02-26
Nitrobenzene	MB,LCS,LCSD	05-05-40	46-02-26
2-Nitrophenol	MB,LCS,LCSD	05-05-40	46-02-26
4-Nitrophenol	MB,LCS,LCSD	05-05-40	46-02-26

QC Summary

2536

Analyte Surrogate	QC TYPE	Extraction Batch No.	Analysis Batch No.
N-Nitrosodiphenylamine	MB,LCS,LCSD	05-05-40	46-02-26
N-Nitrosodi-n-propylamine	MB,LCS,LCSD	05-05-40	46-02-26
Pentachlorophenol	MB,LCS,LCSD	05-05-40	46-02-26
Phenanthrene	MB,LCS,LCSD	05-05-40	46-02-26
Phenol	MB,LCS,LCSD	05-05-40	46-02-26
Pyrene	MB,LCS,LCSD	05-05-40	46-02-26
1,2,4-Trichlorobenzene	MB,LCS,LCSD	05-05-40	46-02-26
2,4,5-Trichlorophenol	MB,LCS,LCSD	05-05-40	46-02-26
2,4,6-Trichlorophenol	MB,LCS,LCSD	05-05-40	46-02-26
2-Fluorophenol	MB,LCS,LCSD	05-05-40	46-02-26
2,4,6-Tribromophenol	MB,LCS,LCSD	05-05-40	46-02-26
Terphenyl-d14	MB,LCS,LCSD	05-05-40	46-02-26
Nitrobenzene-d5	MB,LCS,LCSD	05-05-40	46-02-26

**VOCS**

Benzene	MB,LCS,MS,MSD	10-03-91	10-03-91
Bromobenzene	MB,LCS,MS,MSD	10-03-91	10-03-91
Bromochloromethane	MB,LCS,MS,MSD	10-03-91	10-03-91
Bromodichloromethane	MB,LCS,MS,MSD	10-03-91	10-03-91
Bromoform	MB,LCS,MS,MSD	10-03-91	10-03-91
Bromomethane	MB,LCS,MS,MSD	10-03-91	10-03-91
n-Butylbenzene	MB,LCS,MS,MSD	10-03-91	10-03-91
sec-Butylbenzene	MB,LCS,MS,MSD	10-03-91	10-03-91
tert-Butylbenzene	MB,LCS,MS,MSD	10-03-91	10-03-91
Carbon Tetrachloride	MB,LCS,MS,MSD	10-03-91	10-03-91
Chlorobenzene	MB,LCS,MS,MSD	10-03-91	10-03-91
Chloroethane	MB,LCS,MS,MSD	10-03-91	10-03-91
Chloroform	MB,LCS,MS,MSD	10-03-91	10-03-91
Chloromethane	MB,LCS,MS,MSD	10-03-91	10-03-91
2-Chlorotoluene	MB,LCS,MS,MSD	10-03-91	10-03-91
4-Chlorotoluene	MB,LCS,MS,MSD	10-03-91	10-03-91
Dibromochloromethane	MB,LCS,MS,MSD	10-03-91	10-03-91
1,2-Dibromo-3-chloropropane	MB,LCS,MS,MSD	10-03-91	10-03-91
1,2-Dibromoethane	MB,LCS,MS,MSD	10-03-91	10-03-91
Dibromomethane	MB,LCS,MS,MSD	10-03-91	10-03-91
1,2-Dichlorobenzene	MB,LCS,MS,MSD	10-03-91	10-03-91
1,3-Dichlorobenzene	MB,LCS,MS,MSD	10-03-91	10-03-91
1,4-Dichlorobenzene	MB,LCS,MS,MSD	10-03-91	10-03-91
Dichlorodifluoromethane	MB,LCS,MS,MSD	10-03-91	10-03-91
1,1-Dichloroethane	MB,LCS,MS,MSD	10-03-91	10-03-91
1,2-Dichloroethane	MB,LCS,MS,MSD	10-03-91	10-03-91

**QC Summary**

2537

Analyte Surrogate	QC TYPE	Extraction Batch No.	Analysis Batch No.
1,1-Dichloroethene	MB,LCS,MS,MSD	10-03-91	10-03-91
cis-1,2-Dichloroethene	MB,LCS,MS,MSD	10-03-91	10-03-91
trans-1,2-Dichloroethene	MB,LCS,MS,MSD	10-03-91	10-03-91
1,2-Dichloropropane	MB,LCS,MS,MSD	10-03-91	10-03-91
1,3-Dichloropropane	MB,LCS,MS,MSD	10-03-91	10-03-91
2,2-Dichloropropane	MB,LCS,MS,MSD	10-03-91	10-03-91
1,1-Dichloropropene	MB,LCS,MS,MSD	10-03-91	10-03-91
cis-1,3-Dichloropropene	MB,LCS,MS,MSD	10-03-91	10-03-91
trans-1,3-Dichloropropene	MB,LCS,MS,MSD	10-03-91	10-03-91
Ethylbenzene	MB,LCS,MS,MSD	10-03-91	10-03-91
Hexachlorobutadiene	MB,LCS,MS,MSD	10-03-91	10-03-91
Isopropylbenzene	MB,LCS,MS,MSD	10-03-91	10-03-91
p-Isopropyltoluene	MB,LCS,MS,MSD	10-03-91	10-03-91
Methylene chloride	MB,LCS,MS,MSD	10-03-91	10-03-91
Naphthalene	MB,LCS,MS,MSD	10-03-91	10-03-91
n-Propylbenzene	MB,LCS,MS,MSD	10-03-91	10-03-91
Styrene	MB,LCS,MS,MSD	10-03-91	10-03-91
1,1,1,2-Tetrachloroethane	MB,LCS,MS,MSD	10-03-91	10-03-91
1,1,2,2-Tetrachloroethane	MB,LCS,MS,MSD	10-03-91	10-03-91
Tetrachloroethene	MB,LCS,MS,MSD	10-03-91	10-03-91
Toluene	MB,LCS,MS,MSD	10-03-91	10-03-91
1,2,3-Trichlorobenzene	MB,LCS,MS,MSD	10-03-91	10-03-91
1,2,4-Trichlorobenzene	MB,LCS,MS,MSD	10-03-91	10-03-91
1,1,1-Trichloroethane	MB,LCS,MS,MSD	10-03-91	10-03-91
1,1,2-Trichloroethane	MB,LCS,MS,MSD	10-03-91	10-03-91
Trichloroethene	MB,LCS,MS,MSD	10-03-91	10-03-91
Trichlorofluoromethane	MB,LCS,MS,MSD	10-03-91	10-03-91
1,2,3-Trichloropropane	MB,LCS,MS,MSD	10-03-91	10-03-91
1,2,4-Trimethylbenzene	MB,LCS,MS,MSD	10-03-91	10-03-91
1,3,5-Trimethylbenzene	MB,LCS,MS,MSD	10-03-91	10-03-91
Vinyl Chloride	MB,LCS,MS,MSD	10-03-91	10-03-91
o-Xylene	MB,LCS,MS,MSD	10-03-91	10-03-91
m-Xylene	MB,LCS,MS,MSD	10-03-91	10-03-91
Acetone	MB,LCS,MS,MSD	10-03-91	10-03-91
2-Butanone(MEK)	MB,LCS,MS,MSD	10-03-91	10-03-91
2-Hexanoe	MB,LCS,MS,MSD	10-03-91	10-03-91
4-Methyl-2-pentanone	MB,LCS,MS,MSD	10-03-91	10-03-91
p-Xylene	MB,LCS,MS,MSD	10-03-91	10-03-91
Carbon Disulfide	MB,LCS,MS,MSD	10-03-91	10-03-91
Dibromofluoromethane	MB,LCS,MS,MSD	10-03-91	10-03-91
Toluene-d8	MB,LCS,MS,MSD	10-03-91	10-03-91

QC Summary

2538

Analyte Surrogate	QC TYPE	Extraction Batch No.	Analysis Batch No.
4-Bromofluorobenzene	MB,LCS,MS,MSD	10-03-91	10-03-91

QC Summary

2539

Public Release Requires ROK-US Joint Committee Approval<sup>20/4/96</sup>





Data Report for MB

Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Liquid

Technical Manager : [Redacted] 46

QC Remarks: There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
<b>Heavy Metals</b>							
Arsenic, As	Not Spiked	N.D.	U	mg/kg	4.000	N.A.	04-29-2008
						N.A.	05-08-2008
Cadmium, Cd	Not Spiked	N.D.	U	mg/kg	0.500	N.A.	04-29-2008
						N.A.	05-08-2008
Chromium, Cr	Not Spiked	N.D.	U	mg/kg	0.500	N.A.	04-29-2008
						N.A.	05-08-2008
Cobalt, Co	Not Spiked	N.D.	U	mg/kg	0.600	N.A.	04-29-2008
						N.A.	05-08-2008
Lead, Pb	Not Spiked	N.D.	U	mg/kg	0.400	N.A.	04-29-2008
						N.A.	05-08-2008
Nickel, Ni	Not Spiked	N.D.	U	mg/kg	0.500	N.A.	04-29-2008
						N.A.	05-08-2008
Silver, Ag	Not Spiked	N.D.	U	mg/kg	0.500	N.A.	04-29-2008
						N.A.	05-08-2008
						Lab. Sample ID : 33-03-40-01	
						Parent Sample : NA	
						Site Local : NA	
						Pretreatment Method : EPA3050	
						Method : EPA6010	
Mercury, Hg	Not Spiked	N.D.	U	µg/Kg	1	N.A.	05-07-2008
						N.A.	05-08-2008
						Lab. Sample ID : 70-01-39-05	
						Parent Sample : NA	
						Site Local : NA	
						Pretreatment Method : EPA7473	
						Method : EPA7473	

QC Result Summary

2540



Data Report for MB

Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Liquid

Technical Manager : [Redacted]

b6

QC Remarks:

There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
<b>Herbicides</b>							
Dicamba	Not Spiked	N.D.	U mg/kg		0.02	N.A.	05-09-2008
Dichloroprop	Not Spiked	N.D.	U mg/kg		0.02	N.A.	05-09-2008
2,4-D	Not Spiked	N.D.	U mg/kg		0.02	N.A.	05-09-2008
2,4,5-TP(Silvex)	Not Spiked	N.D.	U mg/kg		0.02	N.A.	05-13-2008
2,4,5-T	Not Spiked	N.D.	U mg/kg		0.02	N.A.	05-09-2008
2,4-DB	Not Spiked	N.D.	U mg/kg		0.02	N.A.	05-13-2008
Picloram	Not Spiked	N.D.	U mg/kg		0.02	N.A.	05-09-2008
2,4-DCAA(Surr)	0.1	0.112	mg/kg	112	45~140	N.A.	05-09-2008
						N.A.	05-13-2008

Lab. Sample ID : 55-01-161-01

Parent Sample : NA

Site Local : NA

Pretreatment Method : EPA8151

Method : EPA8151

QC Result Summary

2541



Data Report for MB

Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Liquid

Technical Manager : [REDACTED] b/c

QC Remarks:

There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
<b>OCPs</b>							
Aldrin	Not Spiked	N.D.	U mg/kg		0.02	N.A.	05-08-2008
a-BHC	Not Spiked	N.D.	U mg/kg		0.02	N.A.	05-08-2008
b-BHC	Not Spiked	N.D.	U mg/kg		0.02	N.A.	05-08-2008
d-BHC	Not Spiked	N.D.	U mg/kg		0.02	N.A.	05-08-2008
r-BHC	Not Spiked	N.D.	U mg/kg		0.02	N.A.	05-08-2008
a-Chlordane	Not Spiked	N.D.	U mg/kg		0.02	N.A.	05-08-2008
r-Chlordane	Not Spiked	N.D.	U mg/kg		0.02	N.A.	05-08-2008
4,4'-DDD	Not Spiked	N.D.	U mg/kg		0.02	N.A.	05-08-2008
4,4'-DDE	Not Spiked	N.D.	U mg/kg		0.02	N.A.	05-08-2008
4,4'-DDT	Not Spiked	N.D.	U mg/kg		0.02	N.A.	05-08-2008
Dieldrin	Not Spiked	N.D.	U mg/kg		0.02	N.A.	05-08-2008
Endosulfan I	Not Spiked	N.D.	U mg/kg		0.02	N.A.	05-08-2008
Endosulfan II	Not Spiked	N.D.	U mg/kg		0.02	N.A.	05-08-2008
Endosulfan sulfate	Not Spiked	N.D.	U mg/kg		0.02	N.A.	05-08-2008
Endrin	Not Spiked	N.D.	U mg/kg		0.02	N.A.	05-08-2008
Endrin aldehyde	Not Spiked	N.D.	U mg/kg		0.02	N.A.	05-08-2008
Heptachlor	Not Spiked	N.D.	U mg/kg		0.02	N.A.	05-08-2008
Heptachlor epoxide	Not Spiked	N.D.	U mg/kg		0.02	N.A.	05-08-2008

QC Result Summary

2542



Data Report for MB

Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Liquid

Technical Manager :  b6

QC Remarks:

There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
Methoxychlor	Not Spiked	N.D.	U		0.02	N.A.	05-08-2008
Toxaphene	Not Spiked	N.D.	U		0.02	N.A.	05-08-2008
Decachlorobiphenyl(Surr)	0.06	0.061	mg/kg	101	40~140	N.A.	05-08-2008

Lab. Sample ID : 55-01-160-01

Parent Sample : NA

Site Local : NA

Pretreatment Method : EPA3545A

Method : EPA8081

QC Result Summary

2543



Data Report for MB

Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Liquid

Technical Manager [Redacted] b6

QC Remarks:

There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
<b>OPPs</b>							
Azynphos-methyl	Not Spiked	N.D.	U	mg/kg	0.01	N.A.	05-08-2008
Bolstar(sulprofos)	Not Spiked	N.D.	U	mg/kg	0.01	N.A.	05-09-2008
Chlorpyrifos	Not Spiked	N.D.	U	mg/kg	0.01	N.A.	05-08-2008
Coumaphos	Not Spiked	N.D.	U	mg/kg	0.01	N.A.	05-09-2008
Demeton-O	Not Spiked	N.D.	U	mg/kg	0.01	N.A.	05-08-2008
Demeton-S	Not Spiked	N.D.	U	mg/kg	0.01	N.A.	05-09-2008
Diazinon	Not Spiked	N.D.	U	mg/kg	0.01	N.A.	05-08-2008
Disulfoton	Not Spiked	N.D.	U	mg/kg	0.01	N.A.	05-09-2008
Ethoprop	Not Spiked	N.D.	U	mg/kg	0.01	N.A.	05-08-2008
Fensulfothion	Not Spiked	N.D.	U	mg/kg	0.01	N.A.	05-09-2008
Fenthion	Not Spiked	N.D.	U	mg/kg	0.01	N.A.	05-08-2008
Merphos	Not Spiked	N.D.	U	mg/kg	0.01	N.A.	05-09-2008
Mevinphos	Not Spiked	N.D.	U	mg/kg	0.01	N.A.	05-08-2008
Naled	Not Spiked	N.D.	U	mg/kg	0.01	N.A.	05-09-2008
Parathion-methyl	Not Spiked	N.D.	U	mg/kg	0.01	N.A.	05-08-2008
Phorate	Not Spiked	N.D.	U	mg/kg	0.01	N.A.	05-09-2008
Ronnel	Not Spiked	N.D.	U	mg/kg	0.01	N.A.	05-08-2008
Stirophos(tetrachlorovinphos)	Not Spiked	N.D.	U	mg/kg	0.01	N.A.	05-09-2008

QC Result Summary

2544



Data Report for MB

Client Name : USACE FED


All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Liquid

Technical Manager :  b6

QC Remarks:

There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
Tokuthion(protothiofos)	Not Spiked	N.D.	U		0.01	N.A.	05-08-2008
						N.A.	05-09-2008
Trichloronate	Not Spiked	N.D.	U		0.01	N.A.	05-08-2008
						N.A.	05-09-2008
Triphenyl Phosphate(Surr)	1	0.966	mg/kg	97	50~140	N.A.	05-08-2008
						N.A.	05-09-2008

Lab. Sample ID : 55-01-160-06

Parent Sample : NA

Site Local : NA

Pretreatment Method : EPA3545A

Method : EPA8141

QC Result Summary

2545

Public Release Requires ROK-US Joint Committee Approval 35/196



Data Report for MB

Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Liquid

Technical Manager :  b6

QC Remarks:

There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
<b>SVOCs</b>							
Acenaphthene	Not Spiked	N.D.	U	mg/kg	0.5	N.A.	05-01-2008
						N.A.	05-09-2008
Acenaphthylene	Not Spiked	N.D.	U	mg/kg	0.5	N.A.	05-01-2008
						N.A.	05-09-2008
Anthracene	Not Spiked	N.D.	U	mg/kg	0.5	N.A.	05-01-2008
						N.A.	05-09-2008
Benz(a)anthracene	Not Spiked	N.D.	U	mg/kg	0.5	N.A.	05-01-2008
						N.A.	05-09-2008
Benzo(b)fluorathene	Not Spiked	N.D.	U	mg/kg	0.5	N.A.	05-01-2008
						N.A.	05-09-2008
Benzo(k)fluorathene	Not Spiked	N.D.	U	mg/kg	0.5	N.A.	05-01-2008
						N.A.	05-09-2008
Benzo(a)pyrene	Not Spiked	N.D.	U	mg/kg	0.5	N.A.	05-01-2008
						N.A.	05-09-2008
Benzo(g,h,i)perylene	Not Spiked	N.D.	U	mg/kg	0.5	N.A.	05-01-2008
						N.A.	05-09-2008
Bis(2 Chlorooctyl)ether	Not Spiked	N.D.	U	mg/kg	0.5	N.A.	05-01-2008
						N.A.	05-09-2008
Bis(2-chloroethoxy)methane	Not Spiked	N.D.	U	mg/kg	0.5	N.A.	05-01-2008
						N.A.	05-09-2008
Bis(2-chloroisopropyl)ether	Not Spiked	N.D.	U	mg/kg	0.5	N.A.	05-01-2008
						N.A.	05-09-2008
Bis(2-ethylhexyl) phthalate	Not Spiked	N.D.	U	mg/kg	0.5	N.A.	05-01-2008
						N.A.	05-09-2008
4-Bromophenyl phenyl ether	Not Spiked	N.D.	U	mg/kg	0.5	N.A.	05-01-2008
						N.A.	05-09-2008
Butyl benzyl phthalate	Not Spiked	N.D.	U	mg/kg	0.5	N.A.	05-01-2008
						N.A.	05-09-2008
Carbazole	Not Spiked	N.D.	U	mg/kg	0.5	N.A.	05-01-2008
						N.A.	05-09-2008
4-Chloroaniline	Not Spiked	N.D.	U	mg/kg	0.5	N.A.	05-01-2008
						N.A.	05-09-2008
4-Chloro-3-methylphenol	Not Spiked	N.D.	U	mg/kg	0.5	N.A.	05-01-2008
						N.A.	05-09-2008
2-Chloronaphthalene	Not Spiked	N.D.	U	mg/kg	0.5	N.A.	05-01-2008
						N.A.	05-09-2008

QC Result Summary

2546



Data Report for MB

Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Liquid

Technical Manager : [Redacted] b6

QC Remarks:

There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
2-Chlorophenol	Not Spiked	N.D.	U mg/kg		0.5	N.A. 05-01-2008	05-09-2008
4-Chlorophenyl phenyl ether	Not Spiked	N.D.	U mg/kg		0.5	N.A. 05-01-2008	05-09-2008
Chrysene	Not Spiked	N.D.	U mg/kg		0.5	N.A. 05-01-2008	05-09-2008
Dibenz(a,h)anthracene	Not Spiked	N.D.	U mg/kg		0.5	N.A. 05-01-2008	05-09-2008
Dibenzofuran	Not Spiked	N.D.	U mg/kg		0.5	N.A. 05-01-2008	05-09-2008
Di-n-butyl phthalate	Not Spiked	N.D.	U mg/kg		0.5	N.A. 05-01-2008	05-09-2008
1,2-Dichlorobenzene	Not Spiked	N.D.	U mg/kg		0.5	N.A. 05-01-2008	05-09-2008
1,3-Dichlorobenzene	Not Spiked	N.D.	U mg/kg		0.5	N.A. 05-01-2008	05-09-2008
1,4-Dichlorobenzene	Not Spiked	N.D.	U mg/kg		0.5	N.A. 05-01-2008	05-09-2008
3,3'-Dichlorobenzidine	Not Spiked	N.D.	U mg/kg		0.5	N.A. 05-01-2008	05-09-2008
2,4-Dichlorophenol	Not Spiked	N.D.	U mg/kg		0.5	N.A. 05-01-2008	05-09-2008
Diethyl phthalate	Not Spiked	N.D.	U mg/kg		0.5	N.A. 05-01-2008	05-09-2008
2,4-Dimethylphenol	Not Spiked	N.D.	U mg/kg		0.5	N.A. 05-01-2008	05-09-2008
Dimethyl phthalate	Not Spiked	N.D.	U mg/kg		0.5	N.A. 05-01-2008	05-09-2008
2-Methyl-4,6-dinitrophenol	Not Spiked	N.D.	U mg/kg		0.5	N.A. 05-01-2008	05-09-2008
2,4-Dinitrophenol	Not Spiked	N.D.	U mg/kg		0.5	N.A. 05-01-2008	05-09-2008
2,4-Dinitrotoluene	Not Spiked	N.D.	U mg/kg		0.5	N.A. 05-01-2008	05-09-2008
2,6 Dinitrotoluene	Not Spiked	N.D.	U mg/kg		0.5	N.A. 05-01-2008	05-09-2008
Di-n-octyl phthalate	Not Spiked	N.D.	U mg/kg		0.5	N.A. 05-01-2008	05-09-2008

QC Result Summary

2547





Data Report for MB

Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Liquid

Technical Manager : [Redacted] b6

QC Remarks: There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
Fluoranthene	Not Spiked	N.D.	U	mg/kg	0.5	N.A.	05-01-2008
Fluorene	Not Spiked	N.D.	U	mg/kg	0.5	N.A.	05-09-2008
Hexachlorobenzene	Not Spiked	N.D.	U	mg/kg	0.5	N.A.	05-01-2008
Hexachlorobutadiene	Not Spiked	N.D.	U	mg/kg	0.5	N.A.	05-09-2008
Hexachlorocyclopentadiene	Not Spiked	N.D.	U	mg/kg	0.5	N.A.	05-01-2008
Hexachloroethane	Not Spiked	N.D.	U	mg/kg	0.5	N.A.	05-09-2008
Indeno(1,2,3-cd)pyrene	Not Spiked	N.D.	U	mg/kg	0.5	N.A.	05-01-2008
Isophorone	Not Spiked	N.D.	U	mg/kg	0.5	N.A.	05-09-2008
2-Methylnaphthalene	Not Spiked	N.D.	U	mg/kg	0.5	N.A.	05-01-2008
2-Methylphenol	Not Spiked	N.D.	U	mg/kg	0.5	N.A.	05-09-2008
4-Methylphenol	Not Spiked	N.D.	U	mg/kg	0.5	N.A.	05-01-2008
Naphthalene	Not Spiked	N.D.	U	mg/kg	0.5	N.A.	05-09-2008
2-Nitroaniline	Not Spiked	N.D.	U	mg/kg	0.5	N.A.	05-01-2008
3-Nitroaniline	Not Spiked	N.D.	U	mg/kg	0.5	N.A.	05-09-2008
4-Nitroaniline	Not Spiked	N.D.	U	mg/kg	0.5	N.A.	05-01-2008
Nitrobenzene	Not Spiked	N.D.	U	mg/kg	0.5	N.A.	05-09-2008
2-Nitrophenol	Not Spiked	N.D.	U	mg/kg	0.5	N.A.	05-01-2008
4-Nitrophenol	Not Spiked	N.D.	U	mg/kg	0.5	N.A.	05-09-2008
N-Nitrosodiphenylamine	Not Spiked	N.D.	U	mg/kg	0.5	N.A.	05-01-2008

QC Result Summary

2548



Data Report for MB

Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Liquid

Technical Manager [Redacted] 56

QC Remarks:

There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
N-Nitrosodi-n-propylamine	Not Spiked	N.D.	U mg/kg		0.5	N.A. N.A.	05-01-2008 05-09-2008
Pentachlorophenol	Not Spiked	N.D.	U mg/kg		0.5	N.A. N.A.	05-01-2008 05-09-2008
Phenanthrene	Not Spiked	N.D.	U mg/kg		0.5	N.A. N.A.	05-01-2008 05-09-2008
Phenol	Not Spiked	N.D.	U mg/kg		0.5	N.A. N.A.	05-01-2008 05-09-2008
Pyrene	Not Spiked	N.D.	U mg/kg		0.5	N.A. N.A.	05-01-2008 05-09-2008
1,2,4-Trichlorobenzene	Not Spiked	N.D.	U mg/kg		0.5	N.A. N.A.	05-01-2008 05-09-2008
2,4,5-Trichlorophenol	Not Spiked	N.D.	U mg/kg		0.5	N.A. N.A.	05-01-2008 05-09-2008
2,4,6-Trichlorophenol	Not Spiked	N.D.	U mg/kg		0.5	N.A. N.A.	05-01-2008 05-09-2008
2-Fluorophenol(Surr)	3.3322	2.4152	mg/kg	72	50~150	N.A. N.A.	05-09-2008 05-01-2008
2,4,6-Tribromophenol(Surr)	3.3322	3.3462	mg/kg	100	50~150	N.A. N.A.	05-09-2008 05-01-2008
Terphenyl-d14(Surr)	1.6661	1.5168	mg/kg	91	50~150	N.A. N.A.	05-09-2008 05-01-2008
Nitrobenzene-d5(Surr)	1.6661	1.3432	mg/kg	81	50~150	N.A. N.A.	05-09-2008 05-09-2008

Lab. Sample ID : 46-02-26-05  
Parent Sample : NA  
Site Local : NA  
Pretreatment Method : EPA3550  
Method : EPA8270C

QC Result Summary

2549



Data Report for MB

Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Liquid

Technical Manager [Redacted] *bf*

QC Remarks:

There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
<b>VOCS</b>							
Benzene	Not Spiked	N.D.	U mg/kg		0.5	N.A.	05-01-2008
Bromobenzene	Not Spiked	N.D.	U mg/kg		0.5	N.A.	05-01-2008
Bromochloromethane	Not Spiked	N.D.	U mg/kg		0.5	N.A.	05-01-2008
Bromodichloromethane	Not Spiked	N.D.	U mg/kg		0.5	N.A.	05-01-2008
Bromoform	Not Spiked	N.D.	U mg/kg		0.5	N.A.	05-01-2008
Bromomethane	Not Spiked	N.D.	U mg/kg		0.5	N.A.	05-01-2008
n-Butylbenzene	Not Spiked	N.D.	U mg/kg		0.5	N.A.	05-01-2008
sec-Butylbenzene	Not Spiked	N.D.	U mg/kg		0.5	N.A.	05-01-2008
tert-Butylbenzene	Not Spiked	N.D.	U mg/kg		0.5	N.A.	05-01-2008
Carbon Tetrachloride	Not Spiked	N.D.	U mg/kg		0.5	N.A.	05-01-2008
Chlorobenzene	Not Spiked	N.D.	U mg/kg		0.5	N.A.	05-01-2008
Chloroethane	Not Spiked	N.D.	U mg/kg		0.5	N.A.	05-01-2008
Chloroform	Not Spiked	N.D.	U mg/kg		0.5	N.A.	05-01-2008
Chloromethane	Not Spiked	N.D.	U mg/kg		0.5	N.A.	05-01-2008
2-Chlorotoluene	Not Spiked	N.D.	U mg/kg		0.5	N.A.	05-01-2008
4-Chlorotoluene	Not Spiked	N.D.	U mg/kg		0.5	N.A.	05-01-2008
Dibromochloromethane	Not Spiked	N.D.	U mg/kg		0.5	N.A.	05-01-2008
1,2-Dibromo-3-chloropropane	Not Spiked	N.D.	U mg/kg		0.5	N.A.	05-01-2008

QC Result Summary

2550



Data Report for MB

Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Liquid

Technical Manager [Redacted] b6

QC Remarks:

There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
1,2-Dibromoethane	Not Spiked	N.D.	U mg/kg		0.5	N.A.	05-01-2008
Dibromomethane	Not Spiked	N.D.	U mg/kg		0.5	N.A.	05-01-2008
1,2-Dichlorobenzene	Not Spiked	N.D.	U mg/kg		0.5	N.A.	05-01-2008
1,3-Dichlorobenzene	Not Spiked	N.D.	U mg/kg		0.5	N.A.	05-01-2008
1,4-Dichlorobenzene	Not Spiked	N.D.	U mg/kg		0.5	N.A.	05-01-2008
Dichlorodifluoromethane	Not Spiked	N.D.	U mg/kg		0.5	N.A.	05-01-2008
1,1-Dichloroethane	Not Spiked	N.D.	U mg/kg		0.5	N.A.	05-01-2008
1,2-Dichloroethane	Not Spiked	N.D.	U mg/kg		0.5	N.A.	05-01-2008
1,1-Dichloroethene	Not Spiked	N.D.	U mg/kg		0.5	N.A.	05-01-2008
cis-1,2-Dichloroethene	Not Spiked	N.D.	U mg/kg		0.5	N.A.	05-01-2008
trans-1,2-Dichloroethene	Not Spiked	N.D.	U mg/kg		0.5	N.A.	05-01-2008
1,2-Dichloropropane	Not Spiked	N.D.	U mg/kg		0.5	N.A.	05-01-2008
1,3-Dichloropropane	Not Spiked	N.D.	U mg/kg		0.5	N.A.	05-01-2008
2,2-Dichloropropane	Not Spiked	N.D.	U mg/kg		0.5	N.A.	05-01-2008
1,1-Dichloropropene	Not Spiked	N.D.	U mg/kg		0.5	N.A.	05-01-2008
cis-1,3-Dichloropropene	Not Spiked	N.D.	U mg/kg		0.5	N.A.	05-01-2008
trans-1,3-Dichloropropene	Not Spiked	N.D.	U mg/kg		0.5	N.A.	05-01-2008
Ethylbenzene	Not Spiked	N.D.	U mg/kg		0.5	N.A.	05-01-2008
Hexachlorobutadiene	Not Spiked	N.D.	U mg/kg		0.5	N.A.	05-01-2008

QC Result Summary

2551



Data Report for MB

Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Liquid

Technical Manager : [Redacted] b6

QC Remarks:

There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
Isopropylbenzene	Not Spiked	N.D.	U	mg/kg	0.5	N.A.	05-01-2008
p-Isopropyltoluene	Not Spiked	N.D.	U	mg/kg	0.5	N.A.	05-01-2008
Methylene chloride	Not Spiked	N.D.	U	mg/kg	0.5	N.A.	05-01-2008
Naphthalene	Not Spiked	N.D.	U	mg/kg	0.5	N.A.	05-01-2008
n-Propylbenzene	Not Spiked	N.D.	U	mg/kg	0.5	N.A.	05-01-2008
Styrene	Not Spiked	N.D.	U	mg/kg	0.5	N.A.	05-01-2008
1,1,1,2-Tetrachloroethane	Not Spiked	N.D.	U	mg/kg	0.5	N.A.	05-01-2008
1,1,1,2,2-Tetrachloroethane	Not Spiked	N.D.	U	mg/kg	0.5	N.A.	05-01-2008
Tetrachloroethene	Not Spiked	N.D.	U	mg/kg	0.5	N.A.	05-01-2008
Toluene	Not Spiked	N.D.	U	mg/kg	0.5	N.A.	05-01-2008
1,2,3-Trichlorobenzene	Not Spiked	N.D.	U	mg/kg	0.5	N.A.	05-01-2008
1,2,4-Trichlorobenzene	Not Spiked	N.D.	U	mg/kg	0.5	N.A.	05-01-2008
1,1,1-Trichloroethane	Not Spiked	N.D.	U	mg/kg	0.5	N.A.	05-01-2008
1,1,2-Trichloroethane	Not Spiked	N.D.	U	mg/kg	0.5	N.A.	05-01-2008
Trichloroethene	Not Spiked	N.D.	U	mg/kg	0.5	N.A.	05-01-2008
Trichlorofluoromethane	Not Spiked	N.D.	U	mg/kg	0.5	N.A.	05-01-2008
1,2,3-Trichloropropane	Not Spiked	N.D.	U	mg/kg	0.5	N.A.	05-01-2008
1,2,4-Trimethylbenzene	Not Spiked	N.D.	U	mg/kg	0.5	N.A.	05-01-2008
1,3,5-Trimethylbenzene	Not Spiked	N.D.	U	mg/kg	0.5	N.A.	05-01-2008

QC Result Summary

2552



Data Report for MB

Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Liquid

Technical Manager [Redacted] BG

QC Remarks:

There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
Vinyl Chloride	Not Spiked	N.D.	U mg/kg		0.5	N.A.	05-01-2008
o-Xylene	Not Spiked	N.D.	U mg/kg		0.5	N.A.	05-01-2008
m-Xylene	Not Spiked	N.D.	U mg/kg		0.5	N.A.	05-01-2008
Acetone	Not Spiked	N.D.	U mg/kg		0.5	N.A.	05-01-2008
2-Butanone(MEK)	Not Spiked	N.D.	U mg/kg		0.5	N.A.	05-01-2008
2-Hexanoe	Not Spiked	N.D.	U mg/kg		0.5	N.A.	05-01-2008
4-Methyl-2-pentanone	Not Spiked	N.D.	U mg/kg		0.5	N.A.	05-01-2008
p-Xylene	Not Spiked	N.D.	U mg/kg		0.5	N.A.	05-01-2008
Carbon Disulfide	Not Spiked	N.D.	U mg/kg		0.5	N.A.	05-01-2008
Dibromofluoromethane(Surr)	3	2.98	mg/kg	99	50~150	N.A.	05-01-2008
Toluene-d8(Surr)	3	3.1	mg/kg	103	50~150	N.A.	05-01-2008
4-Bromofluorobenzene(Surr)	3	3.18	mg/kg	106	50~150	N.A.	05-01-2008

Lab. Sample ID : 10-02-91-12

Parent Sample : NA

Site Local : NA

Pretreatment Method : EPA5035

Method : EPA8260B

QC Result Summary

2553



Data Report for MB

Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Solid

Technical Manager : [Redacted] b6

QC Remarks:

There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
<b>Herbicides</b>							
Dicamba	Not Spiked	N.D.	U	mg/kg	0.02	N.A.	05-09-2008
Dichloroprop	Not Spiked	N.D.	U	mg/kg	0.02	N.A.	05-13-2008
2,4-D	Not Spiked	N.D.	U	mg/kg	0.02	N.A.	05-09-2008
2,4,5-TP(Silvex)	Not Spiked	N.D.	U	mg/kg	0.02	N.A.	05-13-2008
2,4,5-T	Not Spiked	N.D.	U	mg/kg	0.02	N.A.	05-09-2008
2,4-DB	Not Spiked	N.D.	U	mg/kg	0.02	N.A.	05-13-2008
Picloram	Not Spiked	N.D.	U	mg/kg	0.02	N.A.	05-09-2008
2,4-DCAA(Surr)	0.1	0.112		mg/kg	112	45~140	N.A. 05-13-2008

Lab. Sample ID : 55-01-161-01

Parent Sample : NA

Site Local : NA

Pretreatment Method : EPA8151

Method : EPA8151

QC Result Summary

2554



Data Report for MB

Client Name : USACE FED


All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Solid

Technical Manager  b c

QC Remarks:

There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
<b>OCPs</b>							
Aldrin	Not Spiked	N.D.	U	mg/kg	0.02	N.A.	05-08-2008
a-BHC	Not Spiked	N.D.	U	mg/kg	0.02	N.A.	05-08-2008
b-BHC	Not Spiked	N.D.	U	mg/kg	0.02	N.A.	05-08-2008
d-BHC	Not Spiked	N.D.	U	mg/kg	0.02	N.A.	05-08-2008
r-BHC	Not Spiked	N.D.	U	mg/kg	0.02	N.A.	05-08-2008
a-Chlordane	Not Spiked	N.D.	U	mg/kg	0.02	N.A.	05-08-2008
r-Chlordane	Not Spiked	N.D.	U	mg/kg	0.02	N.A.	05-08-2008
4,4'-DDD	Not Spiked	N.D.	U	mg/kg	0.02	N.A.	05-08-2008
4,4'-DDE	Not Spiked	N.D.	U	mg/kg	0.02	N.A.	05-08-2008
4,4'-DDT	Not Spiked	N.D.	U	mg/kg	0.02	N.A.	05-08-2008
Dieldrin	Not Spiked	N.D.	U	mg/kg	0.02	N.A.	05-08-2008
Endosulfan I	Not Spiked	N.D.	U	mg/kg	0.02	N.A.	05-08-2008
Endosulfan II	Not Spiked	N.D.	U	mg/kg	0.02	N.A.	05-08-2008
Endosulfan sulfate	Not Spiked	N.D.	U	mg/kg	0.02	N.A.	05-08-2008
Endrin	Not Spiked	N.D.	U	mg/kg	0.02	N.A.	05-08-2008
Endrin aldehyde	Not Spiked	N.D.	U	mg/kg	0.02	N.A.	05-08-2008
Heptachlor	Not Spiked	N.D.	U	mg/kg	0.02	N.A.	05-08-2008
Heptachlor epoxide	Not Spiked	N.D.	U	mg/kg	0.02	N.A.	05-08-2008

QC Result Summary

2555





Data Report for MB

Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Solid

Technical Manager :  56

QC Remarks:

There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
Methoxychlor	Not Spiked	N.D.	U		0.02	N.A.	05-08-2008
Toxaphene	Not Spiked	N.D.	U		0.02	N.A.	05-08-2008
Decachlorobiphenyl(Surr)	0.06	0.054	mg/kg	90	40~140	N.A.	05-08-2008

Lab. Sample ID : 55-01-160-01

Parent Sample : NA

Site Local : NA

Prement Method : EPA3545A

Method : EPA8081

QC Result Summary

2556

Public Release Requires ROK-US Joint Committee Approval<sup>46/196</sup>



Data Report for MB

Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Solid

Technical Manager : [Redacted] 56

QC Remarks:

There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
<b>OPPs</b>							
Azynthos-methyl	Not Spiked	N.D.	U	mg/kg	0.01	N.A.	05-08-2008
Bolstar(sulprofos)	Not Spiked	N.D.	U	mg/kg	0.01	N.A.	05-09-2008
Chlorpyrifos	Not Spiked	N.D.	U	mg/kg	0.01	N.A.	05-08-2008
Coumaphos	Not Spiked	N.D.	U	mg/kg	0.01	N.A.	05-09-2008
Demeton-O	Not Spiked	N.D.	U	mg/kg	0.01	N.A.	05-08-2008
Demeton-S	Not Spiked	N.D.	U	mg/kg	0.01	N.A.	05-09-2008
Diazinon	Not Spiked	N.D.	U	mg/kg	0.01	N.A.	05-08-2008
Disulfoton	Not Spiked	N.D.	U	mg/kg	0.01	N.A.	05-09-2008
Ethoprop	Not Spiked	N.D.	U	mg/kg	0.01	N.A.	05-08-2008
Fensulfothion	Not Spiked	N.D.	U	mg/kg	0.01	N.A.	05-09-2008
Fenthion	Not Spiked	N.D.	U	mg/kg	0.01	N.A.	05-08-2008
Merphos	Not Spiked	N.D.	U	mg/kg	0.01	N.A.	05-09-2008
Mevinphos	Not Spiked	N.D.	U	mg/kg	0.01	N.A.	05-08-2008
Naled	Not Spiked	N.D.	U	mg/kg	0.01	N.A.	05-09-2008
Parathion-methyl	Not Spiked	N.D.	U	mg/kg	0.01	N.A.	05-08-2008
Phorate	Not Spiked	N.D.	U	mg/kg	0.01	N.A.	05-09-2008
Ronnel	Not Spiked	N.D.	U	mg/kg	0.01	N.A.	05-08-2008
Stirophos(tetrachlorovinphos)	Not Spiked	N.D.	U	mg/kg	0.01	N.A.	05-09-2008

QC Result Summary

2557



Data Report for MB

Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Solid

Technical Manager :  b6

QC Remarks:

There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
Tokuthion(protothiofos)	Not Spiked	N.D.	U		0.01	N.A.	05-08-2008
Trichloronate	Not Spiked	N.D.	U		0.01	N.A.	05-09-2008
Triphenyl Phosphate(Surr)	1	0.966	mg/kg	97	50~140	N.A.	05-08-2008
						N.A.	05-09-2008

Lab. Sample ID : 55-01-160-06

Parent Sample : NA

Site Local : NA

Prement Method : EPA3545A

Method : EPA8141

QC Result Summary

2558



Data Report for LCS

Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Liquid

Technical Manager :  b6

QC Remarks:

There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
<b>VOCs</b>							
Benzene	3	3.209	mg/kg	107	50~150	N.A.	05-01-2008
Bromobenzene	3	2.794	mg/kg	93	50~150	N.A.	05-01-2008
Bromochloromethane	3	3.09	mg/kg	103	50~150	N.A.	05-01-2008
Bromodichloromethane	3	3.021	mg/kg	101	50~150	N.A.	05-01-2008
Bromoform	3	2.794	mg/kg	93	50~150	N.A.	05-01-2008
Bromomethane	3	2.658	mg/kg	89	50~150	N.A.	05-01-2008
n-Butylbenzene	3	3.239	mg/kg	108	50~150	N.A.	05-01-2008
sec-Butylbenzene	3	3.476	mg/kg	116	50~150	N.A.	05-01-2008
tert-Butylbenzene	3	3.443	mg/kg	115	50~150	N.A.	05-01-2008
Carbon Tetrachloride	3	3.501	mg/kg	117	50~150	N.A.	05-01-2008
Chlorobenzene	3	3.074	mg/kg	102	50~150	N.A.	05-01-2008
Chloroethane	3	3.518	mg/kg	117	50~150	N.A.	05-01-2008
Chloroform	3	3.251	mg/kg	108	50~150	N.A.	05-01-2008
Chloromethane	3	2.708	mg/kg	90	50~150	N.A.	05-01-2008
2-Chlorotoluene	3	3.082	mg/kg	103	50~150	N.A.	05-01-2008
4-Chlorotoluene	3	3.14	mg/kg	105	50~150	N.A.	05-01-2008
Dibromochloromethane	3	2.826	mg/kg	94	50~150	N.A.	05-01-2008
1,2-Dibromo-3-chloropropane	3	2.489	mg/kg	83	50~150	N.A.	05-01-2008

QC Result Summary

2559



Data Report for LCS

Client Name : USACE FED


All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Liquid

Technical Manager :  b6

QC Remarks:

There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
1,2-Dibromoethane	3	2.805	mg/kg	94	50~150	N.A.	05-01-2008
Dibromomethane	3	2.979	mg/kg	99	50~150	N.A.	05-01-2008
1,2-Dichlorobenzene	3	2.919	mg/kg	97	50~150	N.A.	05-01-2008
1,3-Dichlorobenzene	3	3.035	mg/kg	101	50~150	N.A.	05-01-2008
1,4-Dichlorobenzene	3	2.942	mg/kg	98	50~150	N.A.	05-01-2008
Dichlorodifluoromethane	3	3.523	mg/kg	117	50~150	N.A.	05-01-2008
1,1-Dichloroethane	3	3.442	mg/kg	115	50~150	N.A.	05-01-2008
1,2-Dichloroethane	3	3.083	mg/kg	103	50~150	N.A.	05-01-2008
1,1-Dichloroethene	3	3.517	mg/kg	117	50~150	N.A.	05-01-2008
cis-1,2-Dichloroethene	3	3.132	mg/kg	104	50~150	N.A.	05-01-2008
trans-1,2-Dichloroethene	3	3.397	mg/kg	113	50~150	N.A.	05-01-2008
1,2-Dichloropropane	3	3.06	mg/kg	102	50~150	N.A.	05-01-2008
1,3-Dichloropropane	3	2.925	mg/kg	98	50~150	N.A.	05-01-2008
2,2-Dichloropropane	3	2.568	mg/kg	86	50~150	N.A.	05-01-2008
1,1-Dichloropropene	3	3.372	mg/kg	112	50~150	N.A.	05-01-2008
cis-1,3-Dichloropropene	3	2.952	mg/kg	98	50~150	N.A.	05-01-2008
trans-1,3-Dichloropropene	3	2.843	mg/kg	95	50~150	N.A.	05-01-2008
Ethylbenzene	3	3.138	mg/kg	105	50~150	N.A.	05-01-2008
Hexachlorobutadiene	3	3.519	mg/kg	117	50~150	N.A.	05-01-2008

QC Result Summary

2560



Data Report for LCS

Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Liquid

Technical Manager :  b6

QC Remarks:

There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
Isopropylbenzene	3	3.181	mg/kg	106	50~150	N.A.	05-01-2008
p-Isopropyltoluene	3	3.295	mg/kg	110	50~150	N.A.	05-01-2008
Methylene chloride	3	3.776	mg/kg	126	50~150	N.A.	05-01-2008
Naphthalene	3	2.73	mg/kg	91	50~150	N.A.	05-01-2008
n-Propylbenzene	3	3.48	mg/kg	116	50~150	N.A.	05-01-2008
Styrene	3	3.039	mg/kg	101	50~150	N.A.	05-01-2008
1,1,1,2-Tetrachloroethane	3	2.887	mg/kg	96	50~150	N.A.	05-01-2008
1,1,2,2-Tetrachloroethane	3	2.868	mg/kg	96	50~150	N.A.	05-01-2008
Tetrachloroethene	3	3.2	mg/kg	107	50~150	N.A.	05-01-2008
Toluene	3	3.109	mg/kg	104	50~150	N.A.	05-01-2008
1,2,3-Trichlorobenzene	3	2.942	mg/kg	98	50~150	N.A.	05-01-2008
1,2,4-Trichlorobenzene	3	2.992	mg/kg	100	50~150	N.A.	05-01-2008
1,1,1-Trichloroethane	3	3.252	mg/kg	108	50~150	N.A.	05-01-2008
1,1,2-Trichloroethane	3	2.913	mg/kg	97	50~150	N.A.	05-01-2008
Trichloroethene	3	3.278	mg/kg	109	50~150	N.A.	05-01-2008
Trichlorofluoromethane	3	3.475	mg/kg	116	50~150	N.A.	05-01-2008
1,2,3-Trichloropropane	3	2.84	mg/kg	95	50~150	N.A.	05-01-2008
1,2,4-Trimethylbenzene	3	2.998	mg/kg	100	50~150	N.A.	05-01-2008
1,3,5-Trimethylbenzene	3	3.206	mg/kg	107	50~150	N.A.	05-01-2008

QC Result Summary

2561



Data Report for LCS

Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Liquid

Technical Manager : [REDACTED]

QC Remarks:

There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
Vinyl Chloride	3	3.981	mg/kg	133	50~150	N.A.	05-01-2008
o-Xylene	3	3.141	mg/kg	105	50~150	N.A.	05-01-2008
m-Xylene	3	3.17	mg/kg	106	50~150	N.A.	05-01-2008
Acetone	3	3.56	mg/kg	119	50~150	N.A.	05-01-2008
2-Butanone(MEK)	3	2.58	mg/kg	86	50~150	N.A.	05-01-2008
2-Hexanoe	3	2.63	mg/kg	88	50~150	N.A.	05-01-2008
4-Methyl-2-pentanone	3	2.8	mg/kg	93	50~150	N.A.	05-01-2008
p-Xylene	3	3.17	mg/kg	106	50~150	N.A.	05-01-2008
Carbon Disulfide	3	3.4	mg/kg	113	50~150	N.A.	05-01-2008
Dibromofluoromethane(Surr)	3	3.17	mg/kg	106	50~150	N.A.	05-01-2008
Toluene-d8(Surr)	3	3.02	mg/kg	101	50~150	N.A.	05-01-2008
4-Bromofluorobenzene(Surr)	3	2.88	mg/kg	96	50~150	N.A.	05-01-2008

Lab. Sample ID : 10-02-91-13

Parent Sample : NA

Site Local : NA

Pretreatment Method : EPA5035

Method : EPA8260B

QC Result Summary

2562



Data and Evaluation Report for LCSD

Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Liquid

Technical Manager [Redacted] b6

QC Remarks:

There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	RPD	RPD Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
<b>Heavy Metals</b>									
Aresnic, As	LCS	25	24.9	mg/kg	100	80~120		N.A.	04-29-2008
	LCSD	25	25	mg/kg	100	80~120	0	≤20	05-08-2008
Cadmium, Cd	LCS	25	26.6	mg/kg	106	80~120		N.A.	04-29-2008
	LCSD	25	26.4	mg/kg	105	80~120	1	≤20	05-08-2008
Chromium, Cr	LCS	25	26.2	mg/kg	105	80~120		N.A.	04-29-2008
	LCSD	25	26	mg/kg	104	80~120	1	≤20	05-08-2008
Cobalt, Co	LCS	25	26.5	mg/kg	106	80~120		N.A.	04-29-2008
	LCSD	25	26.1	mg/kg	104	80~120	1	≤20	05-08-2008
Lead, Pb	LCS	25	26.1	mg/kg	104	80~120		N.A.	04-29-2008
	LCSD	25	26.1	mg/kg	104	80~120	0	≤20	05-08-2008
Nickel, Ni	LCS	25	26.4	mg/kg	106	80~120		N.A.	04-29-2008
	LCSD	25	26.2	mg/kg	105	80~120	1	≤20	05-08-2008
Silver, Ag	LCS	25	25.5	mg/kg	102	80~120		N.A.	04-29-2008
	LCSD	25	25.8	mg/kg	103	80~120	1	≤20	05-08-2008
Lab. Sample ID : 33-03-40-03,33-03-40-02									
Parent Sample : NA									
Site Local : NA									
Pretreatment Method : EPA3050									
Method : EPA6010									
Mercury, Hg	LCS	20	20.4	µg/Kg	102	50~150		N.A.	05-07-2008
								N.A.	05-08-2008

QC Result Summary

2563





Data and Evaluation Report for LCSD

Client Name : USACE FED


All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Liquid

Technical Manager :  b6

QC Remarks:

There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	RPD	RPD Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
LCSD	20	19.5	µg/Kg	97	50~150	5	≤ 20	N.A. N.A.	05-07-2008 05-08-2008

Lab. Sample ID : 70-01-39-07,70-01-39-06

Parent Sample : NA

Site Local : NA

Pretreatment Method : EPA7473

Method : EPA7473

QC Result Summary

2564

Public Release Requires ROK-US Joint Committee Approval<sup>54 / 196</sup>



Data and Evaluation Report for LCSD

Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Liquid

Technical Manager : [Redacted] *DB*

QC Remarks:

There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	RPD	RPD Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
<b>Herbicides</b>									
Dicamba	LCS	0.05	0.036	mg/kg	71	45~140		N.A.	05-09-2008
	LCSD	0.05	0.036	mg/kg	71	45~140	0	< 30	N.A. 05-13-2008
Dichloroprop	LCS	0.05	0.036	mg/kg	73	45~140		N.A.	05-09-2008
	LCSD	0.05	0.036	mg/kg	72	45~140	1	< 30	N.A. 05-13-2008
2,4-D	LCS	0.05	0.035	mg/kg	70	45~140		N.A.	05-09-2008
	LCSD	0.05	0.036	mg/kg	72	45~140	2	< 30	N.A. 05-13-2008
2,4,5-TP(Silvex)	LCS	0.05	0.038	mg/kg	75	45~140		N.A.	05-09-2008
	LCSD	0.05	0.036	mg/kg	71	45~140	6	< 30	N.A. 05-13-2008
2,4,5-T	LCS	0.05	0.037	mg/kg	73	45~140		N.A.	05-09-2008
	LCSD	0.05	0.037	mg/kg	74	45~140	1	< 30	N.A. 05-13-2008
2,4-DB	LCS	0.05	0.035	mg/kg	70	45~140		N.A.	05-09-2008
	LCSD	0.05	0.035	mg/kg	70	45~140	0	< 30	N.A. 05-13-2008
Picloram	LCS	0.05	0.037	mg/kg	74	45~140		N.A.	05-09-2008
	LCSD	0.05	0.035	mg/kg	70	45~140	5	< 30	N.A. 05-13-2008
2,4-DCAA(Surr)	LCS	0.05	0.056	mg/kg	112	45~140		N.A.	05-09-2008
	LCSD	0.05	0.056	mg/kg	112	45~140		N.A.	05-13-2008

QC Result Summary

*2565*



Data and Evaluation Report for LCSD

Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Liquid

Technical Manager  b6

QC Remarks:

There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	RPD	RPD Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
---------	---------------	-----------------	------	---------------------	----------------	-----	------------	--------------------------	--------------------------

Lab. Sample ID : 55-01-161-05,55-01-161-04

Parent Sample : NA

Site Local : NA

Pretreatment Method : EPA8151

Method : EPA8151

QC Result Summary

2566

Public Release Requires ROK-US Joint Committee Approval <sup>56/196</sup>



Data and Evaluation Report for LCSD

Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Liquid

Technical Manager [Redacted] b6

QC Remarks:

There is no specific qc remarks.

Analyte		Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	RPD	RPD Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
<b>OCGs</b>										
Aldrin	LCS	0.1	0.096	mg/kg	96	50~140			N.A.	05-08-2008
	LCS								N.A.	05-08-2008
	LCS	0.1	0.094	mg/kg	94	50~140	1	< 30	N.A.	05-08-2008
	LCS								N.A.	05-08-2008
a-BHC	LCS	0.1	0.084	mg/kg	84	50~140			N.A.	05-08-2008
	LCS								N.A.	05-08-2008
	LCS	0.1	0.084	mg/kg	84	50~140	1	< 30	N.A.	05-08-2008
	LCS								N.A.	05-08-2008
b-BHC	LCS	0.1	0.084	mg/kg	84	50~140			N.A.	05-08-2008
	LCS								N.A.	05-08-2008
	LCS	0.1	0.09	mg/kg	90	50~140	7	< 30	N.A.	05-08-2008
	LCS								N.A.	05-08-2008
d-BHC	LCS	0.1	0.086	mg/kg	86	50~140			N.A.	05-08-2008
	LCS								N.A.	05-08-2008
	LCS	0.1	0.086	mg/kg	86	50~140	0	< 30	N.A.	05-08-2008
	LCS								N.A.	05-08-2008
r-BHC	LCS	0.1	0.086	mg/kg	86	50~140			N.A.	05-08-2008
	LCS								N.A.	05-08-2008
	LCS	0.1	0.087	mg/kg	87	50~140	1	< 30	N.A.	05-08-2008
	LCS								N.A.	05-08-2008
a-Chlordane	LCS	0.1	0.097	mg/kg	97	50~140			N.A.	05-08-2008
	LCS								N.A.	05-08-2008
	LCS	0.1	0.1	mg/kg	100	50~140	2	< 30	N.A.	05-08-2008
	LCS								N.A.	05-08-2008
r-Chlordane	LCS	0.1	0.092	mg/kg	92	50~140			N.A.	05-08-2008
	LCS								N.A.	05-08-2008
	LCS	0.1	0.094	mg/kg	94	50~140	2	< 30	N.A.	05-08-2008
	LCS								N.A.	05-08-2008
4,4'-DDD	LCS	0.1	0.093	mg/kg	93	50~140			N.A.	05-08-2008
	LCS								N.A.	05-08-2008
	LCS	0.1	0.095	mg/kg	95	50~140	2	< 30	N.A.	05-08-2008
	LCS								N.A.	05-08-2008
4,4'-DDE	LCS	0.1	0.096	mg/kg	96	50~140			N.A.	05-08-2008
	LCS								N.A.	05-08-2008
	LCS	0.1	0.099	mg/kg	99	50~140	3	< 30	N.A.	05-08-2008
	LCS								N.A.	05-08-2008

QC Result Summary

2567



Data and Evaluation Report for LCSD

Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Liquid

Technical Manager : [Redacted] *bg*

QC Remarks:

There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	RPD	RPD Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
4,4'-DDT	LCS	0.1	0.068	mg/kg	68	50~140		N.A.	05-08-2008
	LCSD	0.1	0.092	mg/kg	92	50~140	29	< 30	N.A.
Dieldrin	LCS	0.1	0.09	mg/kg	90	50~140		N.A.	05-08-2008
	LCSD	0.1	0.091	mg/kg	91	50~140	0	< 30	N.A.
Endosulfan I	LCS	0.1	0.06	mg/kg	60	50~140		N.A.	05-08-2008
	LCSD	0.1	0.064	mg/kg	64	50~140	7	< 30	N.A.
Endosulfan II	LCS	0.1	0.063	mg/kg	63	50~140		N.A.	05-08-2008
	LCSD	0.1	0.061	mg/kg	61	50~140	3	< 30	N.A.
Endosulfan sulfate	LCS	0.1	0.083	mg/kg	83	50~140		N.A.	05-08-2008
	LCSD	0.1	0.062	mg/kg	62	50~140	28	< 30	N.A.
Endrin	LCS	0.1	0.089	mg/kg	89	50~140		N.A.	05-08-2008
	LCSD	0.1	0.091	mg/kg	91	50~140	2	< 30	N.A.
Endrin aldehyde	LCS	0.1	0.064	mg/kg	64	50~140		N.A.	05-08-2008
	LCSD	0.1	0.066	mg/kg	66	50~140	3	< 30	N.A.
Heptachlor	LCS	0.1	0.091	mg/kg	91	50~140		N.A.	05-08-2008
	LCSD	0.1	0.091	mg/kg	91	50~140	0	< 30	N.A.
Heptachlor epoxide	LCS	0.1	0.093	mg/kg	93	50~140		N.A.	05-08-2008
	LCSD	0.1	0.093	mg/kg	93	50~140	0	< 30	N.A.

QC Result Summary

*2568*



Data and Evaluation Report for LCSD

Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Liquid

Technical Manager [Redacted] BG

QC Remarks:

There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	RPD	RPD Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
Methoxychlor	LCS 0.1	0.083	mg/kg	83	50~140			N.A. N.A.	05-08-2008 05-08-2008
	LCSD 0.1	0.085	mg/kg	85	50~140	2	< 30	N.A. N.A.	05-08-2008 05-08-2008
Toxaphene	LCS 0.1	0.079	mg/kg	79	50~140			N.A. N.A.	05-08-2008 05-08-2008
	LCSD 0.1	0.072	mg/kg	72	50~140	9	< 30	N.A. N.A.	05-08-2008 05-08-2008
Decachlorobiphenyl(Surr)	LCS 0.06	0.058	mg/kg	96	40~140			N.A. N.A.	05-08-2008 05-08-2008
	LCSD 0.06	0.059	mg/kg	100	40~140			N.A. N.A.	05-08-2008 05-08-2008

Lab. Sample ID : 55-01-160-03,55-01-160-02

Parent Sample : NA

Site Local : NA

Pretreatment Method : EPA3545A

Method : EPA8081

QC Result Summary

2569



Data and Evaluation Report for LCSD

Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Liquid

Technical Manager [Redacted]

QC Remarks:

There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	RPD	RPD Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
<b>OPPs</b>									
Azyrnphos-methyl	LCS	1	0.614	mg/kg	61	50~140		N.A.	05-08-2008
	LCSD	1	0.626	mg/kg	63	50~140	2	< 30	N.A.
Bolstar(sulprofos)	LCS	1	0.852	mg/kg	85	50~140		N.A.	05-08-2008
	LCSD	1	0.79	mg/kg	79	50~140	8	< 30	N.A.
Chlorpyrifos	LCS	1	1.16	mg/kg	116	50~140		N.A.	05-08-2008
	LCSD	1	1.06	mg/kg	106	50~140	8	< 30	N.A.
Coumaphos	LCS	1	0.702	mg/kg	70	50~140		N.A.	05-08-2008
	LCSD	1	0.696	mg/kg	70	50~140	1	< 30	N.A.
Demeton-O	LCS	1	0.654	mg/kg	65	50~140		N.A.	05-08-2008
	LCSD	1	0.67	mg/kg	67	50~140	2	< 30	N.A.
Demeton-S	LCS	1	0.906	mg/kg	91	50~140		N.A.	05-08-2008
	LCSD	1	0.892	mg/kg	89	50~140	2	< 30	N.A.
Diazinon	LCS	1	1.25	mg/kg	125	50~140		N.A.	05-08-2008
	LCSD	1	1.21	mg/kg	121	50~140	3	< 30	N.A.
Disulfoton	LCS	1	0.964	mg/kg	96	50~140		N.A.	05-08-2008
	LCSD	1	0.928	mg/kg	93	50~140	4	< 30	N.A.
Ethoprop	LCS	1	1.14	mg/kg	114	50~140		N.A.	05-08-2008
	LCSD	1	1.12	mg/kg	112	50~140	2	< 30	N.A.

QC Result Summary

2570



Data and Evaluation Report for LCSD

Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Liquid

Technical Manager [Redacted] b6

QC Remarks:

There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	RPD	RPD Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
Fensulfothion	LCS	1	1.03	mg/kg	103	50~140		N.A.	05-08-2008
	LCS	1	0.912	mg/kg	91	50~140	13	< 30	05-09-2008
Fenthion	LCS	1	1.17	mg/kg	117	50~140		N.A.	05-08-2008
	LCS	1	1.09	mg/kg	109	50~140	7	< 30	05-09-2008
Merphos	LCS	1	1.12	mg/kg	112	50~140		N.A.	05-08-2008
	LCS	1	1.07	mg/kg	107	50~140	5	< 30	05-09-2008
Mevinphos	LCS	1	0.612	mg/kg	61	50~140		N.A.	05-08-2008
	LCS	1	0.672	mg/kg	67	50~140	9	< 30	05-09-2008
Naled	LCS	1	0.774	mg/kg	77	50~140		N.A.	05-08-2008
	LCS	1	0.736	mg/kg	74	50~140	5	< 30	05-09-2008
Parathion-methyl	LCS	1	0.896	mg/kg	90	50~140		N.A.	05-08-2008
	LCS	1	0.81	mg/kg	81	50~140	10	< 30	05-09-2008
Phorate	LCS	1	0.904	mg/kg	90	50~140		N.A.	05-08-2008
	LCS	1	0.888	mg/kg	89	50~140	2	< 30	05-09-2008
Ronnal	LCS	1	1.02	mg/kg	102	50~140		N.A.	05-08-2008
	LCS	1	0.984	mg/kg	98	50~140	3	< 30	05-09-2008
Stirophos(tetrachlorovinphos)	LCS	1	0.896	mg/kg	90	50~140		N.A.	05-08-2008
	LCS	1	0.81	mg/kg	81	50~140	10	< 30	05-09-2008

QC Result Summary

2571





Data and Evaluation Report for LCSD

Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Liquid

Technical Manager [Redacted] *bb*

QC Remarks:

There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	RPD	RPD Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
Tokuthion(protothiofos)	LCS	1	1.08	mg/kg	108	50~140		N.A.	05-08-2008
	LCS	1	1.08	mg/kg	108	50~140		N.A.	05-09-2008
LCSD	LCS	1	1.21	mg/kg	121	50~140	12 < 30	N.A.	05-08-2008
	LCS	1	1.21	mg/kg	121	50~140	12 < 30	N.A.	05-09-2008
Trichloronate	LCS	1	0.834	mg/kg	83	50~140		N.A.	05-08-2008
	LCS	1	0.834	mg/kg	83	50~140		N.A.	05-09-2008
LCSD	LCS	1	0.916	mg/kg	92	50~140	9 < 30	N.A.	05-08-2008
	LCS	1	0.916	mg/kg	92	50~140	9 < 30	N.A.	05-09-2008
Triphenyl Phosphate(Surr)	LCS	1	1.08	mg/kg	108	50~140		N.A.	05-08-2008
	LCS	1	1.08	mg/kg	108	50~140		N.A.	05-09-2008
LCSD	LCS	1	0.976	mg/kg	98	50~140		N.A.	05-08-2008
	LCS	1	0.976	mg/kg	98	50~140		N.A.	05-09-2008

Lab. Sample ID : 55-01-160-08,55-01-160-07

Parent Sample : NA

Site Local : NA

Pretreatment Method : EPA3545A

Method : EPA8141

QC Result Summary

*2572*



Data and Evaluation Report for LCSD

Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Liquid

Technical Manager [Redacted] 56

QC Remarks:

There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	RPD	RPD Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
<b>SVOCs</b>									
Acenaphthene	LCS	1.6367	1.2812	mg/kg	78	50~150		N.A.	05-01-2008
								N.A.	05-09-2008
	LCSD	1.6584	1.3804	mg/kg	83	50~150	6 ≤ 20	N.A.	05-01-2008
								N.A.	05-09-2008
Acenaphthylene	LCS	Not Spiked	N.D.	mg/kg		N.A.		N.A.	05-01-2008
								N.A.	05-09-2008
	LCSD	Not Spiked	N.D.	mg/kg		N.A.		N.A.	05-01-2008
								N.A.	05-09-2008
Anthracene	LCS	Not Spiked	N.D.	mg/kg		N.A.		N.A.	05-01-2008
								N.A.	05-09-2008
	LCSD	Not Spiked	N.D.	mg/kg		N.A.		N.A.	05-01-2008
								N.A.	05-09-2008
Benz(a)anthracene	LCS	Not Spiked	N.D.	mg/kg		N.A.		N.A.	05-01-2008
								N.A.	05-09-2008
	LCSD	Not Spiked	N.D.	mg/kg		N.A.		N.A.	05-01-2008
								N.A.	05-09-2008
Benzo(b)fluorathene	LCS	Not Spiked	N.D.	mg/kg		N.A.		N.A.	05-01-2008
								N.A.	05-09-2008
	LCSD	Not Spiked	N.D.	mg/kg		N.A.		N.A.	05-01-2008
								N.A.	05-09-2008
Benzo(k)fluorathene	LCS	Not Spiked	N.D.	mg/kg		N.A.		N.A.	05-01-2008
								N.A.	05-09-2008
	LCSD	Not Spiked	N.D.	mg/kg		N.A.		N.A.	05-01-2008
								N.A.	05-09-2008
Benzo(a)pyrene	LCS	Not Spiked	N.D.	mg/kg		N.A.		N.A.	05-01-2008
								N.A.	05-09-2008
	LCSD	Not Spiked	N.D.	mg/kg		N.A.		N.A.	05-01-2008
								N.A.	05-09-2008
Benzo(g,h,i)perylene	LCS	Not Spiked	N.D.	mg/kg		N.A.		N.A.	05-01-2008
								N.A.	05-09-2008
	LCSD	Not Spiked	N.D.	mg/kg		N.A.		N.A.	05-01-2008
								N.A.	05-09-2008
Bis(2-Chloroethyl)ether	LCS	Not Spiked	N.D.	mg/kg		N.A.		N.A.	05-01-2008
								N.A.	05-09-2008
	LCSD	Not Spiked	N.D.	mg/kg		N.A.		N.A.	05-01-2008
								N.A.	05-09-2008

QC Result Summary

2573



Data and Evaluation Report for LCSD

Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Liquid

Technical Manager [Redacted] b6

QC Remarks:

There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	RPD	RPD Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
Bis(2-chloroethoxy)methane	LCS Not Spiked	N.D.	mg/kg		N.A.			N.A. 05-01-2008	N.A. 05-09-2008
	LCSD Not Spiked	N.D.	mg/kg		N.A.			N.A. 05-01-2008	N.A. 05-09-2008
Bis(2-chloroisopropyl)ether	LCS Not Spiked	N.D.	mg/kg		N.A.			N.A. 05-01-2008	N.A. 05-09-2008
	LCSD Not Spiked	N.D.	mg/kg		N.A.			N.A. 05-01-2008	N.A. 05-09-2008
Bis(2-ethylhexyl) phthalate	LCS Not Spiked	N.D.	mg/kg		N.A.			N.A. 05-01-2008	N.A. 05-09-2008
	LCSD Not Spiked	N.D.	mg/kg		N.A.			N.A. 05-01-2008	N.A. 05-09-2008
4-Bromophenyl phenyl ether	LCS Not Spiked	N.D.	mg/kg		N.A.			N.A. 05-01-2008	N.A. 05-09-2008
	LCSD Not Spiked	N.D.	mg/kg		N.A.			N.A. 05-01-2008	N.A. 05-09-2008
Butyl benzyl phthalate	LCS Not Spiked	N.D.	mg/kg		N.A.			N.A. 05-01-2008	N.A. 05-09-2008
	LCSD Not Spiked	N.D.	mg/kg		N.A.			N.A. 05-01-2008	N.A. 05-09-2008
Carbazole	LCS Not Spiked	N.D.	mg/kg		N.A.			N.A. 05-01-2008	N.A. 05-09-2008
	LCSD Not Spiked	N.D.	mg/kg		N.A.			N.A. 05-01-2008	N.A. 05-09-2008
4-Chloroaniline	LCS Not Spiked	N.D.	mg/kg		N.A.			N.A. 05-01-2008	N.A. 05-09-2008
	LCSD Not Spiked	N.D.	mg/kg		N.A.			N.A. 05-01-2008	N.A. 05-09-2008
4-Chloro-3-methylphenol	LCS 3.2733	3.2664	mg/kg	100	50~150			N.A. 05-01-2008	N.A. 05-09-2008
	LCSD 3.3167	3.2992	mg/kg	99	50~150	1	≤ 20	N.A. 05-01-2008	N.A. 05-09-2008
2-Chloronaphthalene	LCS Not Spiked	N.D.	mg/kg		N.A.			N.A. 05-01-2008	N.A. 05-09-2008
	LCSD Not Spiked	N.D.	mg/kg		N.A.			N.A. 05-01-2008	N.A. 05-09-2008

QC Result Summary

2574



Data and Evaluation Report for LCSD

Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Liquid

Technical Manager [Redacted] b6

QC Remarks:

There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	RPD	RPD Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
2-Chlorophenol	LCS 3.2733	2.4527	mg/kg	75	50~150			N.A. N.A.	05-01-2008 05-09-2008
	LCSD 3.3167	2.4554	mg/kg	74	50~150	1	≤ 20	N.A. N.A.	05-01-2008 05-09-2008
4-Chlorophenyl phenyl ether	LCS Not Spiked	N.D.	mg/kg		N.A.			N.A. N.A.	05-01-2008 05-09-2008
	LCSD Not Spiked	N.D.	mg/kg		N.A.			N.A. N.A.	05-01-2008 05-09-2008
Chrysene	LCS Not Spiked	N.D.	mg/kg		N.A.			N.A. N.A.	05-01-2008 05-09-2008
	LCSD Not Spiked	N.D.	mg/kg		N.A.			N.A. N.A.	05-01-2008 05-09-2008
Dibenz(a,h)anthracene	LCS Not Spiked	N.D.	mg/kg		N.A.			N.A. N.A.	05-01-2008 05-09-2008
	LCSD Not Spiked	N.D.	mg/kg		N.A.			N.A. N.A.	05-01-2008 05-09-2008
Dibenzofuran	LCS Not Spiked	N.D.	mg/kg		N.A.			N.A. N.A.	05-01-2008 05-09-2008
	LCSD Not Spiked	N.D.	mg/kg		N.A.			N.A. N.A.	05-01-2008 05-09-2008
Di-n-butyl phthalate	LCS Not Spiked	N.D.	mg/kg		N.A.			N.A. N.A.	05-01-2008 05-09-2008
	LCSD Not Spiked	N.D.	mg/kg		N.A.			N.A. N.A.	05-01-2008 05-09-2008
1,2-Dichlorobenzene	LCS Not Spiked	N.D.	mg/kg		N.A.			N.A. N.A.	05-01-2008 05-09-2008
	LCSD Not Spiked	N.D.	mg/kg		N.A.			N.A. N.A.	05-01-2008 05-09-2008
1,3-Dichlorobenzene	LCS Not Spiked	N.D.	mg/kg		N.A.			N.A. N.A.	05-01-2008 05-09-2008
	LCSD Not Spiked	N.D.	mg/kg		N.A.			N.A. N.A.	05-01-2008 05-09-2008
1,4-Dichlorobenzene	LCS 1.6367	1.1555	mg/kg	71	50~150			N.A. N.A.	05-01-2008 05-09-2008
	LCSD 1.6584	1.1841	mg/kg	71	50~150	0	≤ 20	N.A. N.A.	05-01-2008 05-09-2008

QC Result Summary

2575



Data and Evaluation Report for LCSD

Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Liquid

Technical Manager [Redacted] *bs*

QC Remarks:

There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	RPD	RPD Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
3,3'-Dichlorobenzidine	LCS Not Spiked	N.D.	mg/kg		N.A.			N.A. N.A.	05-01-2008 05-09-2008
	LCSD Not Spiked	N.D.	mg/kg		N.A.			N.A. N.A.	05-01-2008 05-09-2008
2,4-Dichlorophenol	LCS Not Spiked	N.D.	mg/kg		N.A.			N.A. N.A.	05-01-2008 05-09-2008
	LCSD Not Spiked	N.D.	mg/kg		N.A.			N.A. N.A.	05-01-2008 05-09-2008
Diethyl phthalate	LCS Not Spiked	N.D.	mg/kg		N.A.			N.A. N.A.	05-01-2008 05-09-2008
	LCSD Not Spiked	N.D.	mg/kg		N.A.			N.A. N.A.	05-01-2008 05-09-2008
2,4-Dimethylphenol	LCS Not Spiked	N.D.	mg/kg		N.A.			N.A. N.A.	05-01-2008 05-09-2008
	LCSD Not Spiked	N.D.	mg/kg		N.A.			N.A. N.A.	05-01-2008 05-09-2008
Dimethyl phthalate	LCS Not Spiked	N.D.	mg/kg		N.A.			N.A. N.A.	05-01-2008 05-09-2008
	LCSD Not Spiked	N.D.	mg/kg		N.A.			N.A. N.A.	05-01-2008 05-09-2008
2-Methyl-4,6-dinitrophenol	LCS Not Spiked	N.D.	mg/kg		N.A.			N.A. N.A.	05-01-2008 05-09-2008
	LCSD Not Spiked	N.D.	mg/kg		N.A.			N.A. N.A.	05-01-2008 05-09-2008
2,4-Dinitrophenol	LCS Not Spiked	N.D.	mg/kg		N.A.			N.A. N.A.	05-01-2008 05-09-2008
	LCSD Not Spiked	N.D.	mg/kg		N.A.			N.A. N.A.	05-01-2008 05-09-2008
2,4-Dinitrotoluene	LCS 1.6367	1.0717	mg/kg	65	50~150			N.A. N.A.	05-01-2008 05-09-2008
	LCSD 1.6584	1.1323	mg/kg	68	50~150	5	≤ 20	N.A. N.A.	05-01-2008 05-09-2008
2,6 Dinitrotoluene	LCS Not Spiked	N.D.	mg/kg		N.A.			N.A. N.A.	05-01-2008 05-09-2008
	LCSD Not Spiked	N.D.	mg/kg		N.A.			N.A. N.A.	05-01-2008 05-09-2008

QC Result Summary

*2576*



Data and Evaluation Report for LCSD

Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Liquid

Technical Manager : [Redacted] BG

QC Remarks:

There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	RPD	RPD Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
Di-n-octyl phthalate	LCS Not Spiked	N.D.	mg/kg		N.A.			N.A. 05-01-2008	N.A. 05-09-2008
	LCSD Not Spiked	N.D.	mg/kg		N.A.			N.A. 05-01-2008	N.A. 05-09-2008
Fluoranthene	LCS Not Spiked	N.D.	mg/kg		N.A.			N.A. 05-01-2008	N.A. 05-09-2008
	LCSD Not Spiked	N.D.	mg/kg		N.A.			N.A. 05-01-2008	N.A. 05-09-2008
Fluorene	LCS Not Spiked	N.D.	mg/kg		N.A.			N.A. 05-01-2008	N.A. 05-09-2008
	LCSD Not Spiked	N.D.	mg/kg		N.A.			N.A. 05-01-2008	N.A. 05-09-2008
Hexachlorobenzene	LCS Not Spiked	N.D.	mg/kg		N.A.			N.A. 05-01-2008	N.A. 05-09-2008
	LCSD Not Spiked	N.D.	mg/kg		N.A.			N.A. 05-01-2008	N.A. 05-09-2008
Hexachlorobutadiene	LCS Not Spiked	N.D.	mg/kg		N.A.			N.A. 05-01-2008	N.A. 05-09-2008
	LCSD Not Spiked	N.D.	mg/kg		N.A.			N.A. 05-01-2008	N.A. 05-09-2008
Hexachlorocyclopentadiene	LCS Not Spiked	N.D.	mg/kg		N.A.			N.A. 05-01-2008	N.A. 05-09-2008
	LCSD Not Spiked	N.D.	mg/kg		N.A.			N.A. 05-01-2008	N.A. 05-09-2008
Hexachloroethane	LCS Not Spiked	N.D.	mg/kg		N.A.			N.A. 05-01-2008	N.A. 05-09-2008
	LCSD Not Spiked	N.D.	mg/kg		N.A.			N.A. 05-01-2008	N.A. 05-09-2008
Indeno(1,2,3-cd)pyrene	LCS Not Spiked	N.D.	mg/kg		N.A.			N.A. 05-01-2008	N.A. 05-09-2008
	LCSD Not Spiked	N.D.	mg/kg		N.A.			N.A. 05-01-2008	N.A. 05-09-2008
Isophorone	LCS Not Spiked	N.D.	mg/kg		N.A.			N.A. 05-01-2008	N.A. 05-09-2008
	LCSD Not Spiked	N.D.	mg/kg		N.A.			N.A. 05-01-2008	N.A. 05-09-2008

QC Result Summary

2577



Data and Evaluation Report for LCSD

Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Liquid

Technical Manager [Redacted] b6

QC Remarks:

There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	RPD	RPD Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
2-Methylnaphthalene	LCS Not Spiked	N.D.	mg/kg		N.A.			N.A. 05-01-2008	N.A. 05-09-2008
	LCSD Not Spiked	N.D.	mg/kg		N.A.			N.A. 05-01-2008	N.A. 05-09-2008
2-Methylphenol	LCS Not Spiked	N.D.	mg/kg		N.A.			N.A. 05-01-2008	N.A. 05-09-2008
	LCSD Not Spiked	N.D.	mg/kg		N.A.			N.A. 05-01-2008	N.A. 05-09-2008
4-Methylphenol	LCS Not Spiked	N.D.	mg/kg		N.A.			N.A. 05-01-2008	N.A. 05-09-2008
	LCSD Not Spiked	N.D.	mg/kg		N.A.			N.A. 05-01-2008	N.A. 05-09-2008
Naphthalene	LCS Not Spiked	N.D.	mg/kg		N.A.			N.A. 05-01-2008	N.A. 05-09-2008
	LCSD Not Spiked	N.D.	mg/kg		N.A.			N.A. 05-01-2008	N.A. 05-09-2008
2-Nitroaniline	LCS Not Spiked	N.D.	mg/kg		N.A.			N.A. 05-01-2008	N.A. 05-09-2008
	LCSD Not Spiked	N.D.	mg/kg		N.A.			N.A. 05-01-2008	N.A. 05-09-2008
3-Nitroaniline	LCS Not Spiked	N.D.	mg/kg		N.A.			N.A. 05-01-2008	N.A. 05-09-2008
	LCSD Not Spiked	N.D.	mg/kg		N.A.			N.A. 05-01-2008	N.A. 05-09-2008
4-Nitroaniline	LCS Not Spiked	N.D.	mg/kg		N.A.			N.A. 05-01-2008	N.A. 05-09-2008
	LCSD Not Spiked	N.D.	mg/kg		N.A.			N.A. 05-01-2008	N.A. 05-09-2008
Nitrobenzene	LCS Not Spiked	N.D.	mg/kg		N.A.			N.A. 05-01-2008	N.A. 05-09-2008
	LCSD Not Spiked	N.D.	mg/kg		N.A.			N.A. 05-01-2008	N.A. 05-09-2008
2-Nitrophenol	LCS Not Spiked	N.D.	mg/kg		N.A.			N.A. 05-01-2008	N.A. 05-09-2008
	LCSD Not Spiked	N.D.	mg/kg		N.A.			N.A. 05-01-2008	N.A. 05-09-2008

QC Result Summary

2578



Data and Evaluation Report for LCSD

Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Liquid

Technical Manager [Redacted] b6

QC Remarks: There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	RPD	RPD Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
4-Nitrophenol	LCS 3.2733	2.3964	mg/kg	73	50~150			N.A.	05-01-2008
	LCS 3.3167	2.4551	mg/kg	74	50~150	1	≤ 20	N.A.	05-09-2008
N-Nitrosodiphenylamine	LCS Not Spiked	N.D.	mg/kg		N.A.			N.A.	05-01-2008
	LCS Not Spiked	N.D.	mg/kg		N.A.			N.A.	05-09-2008
N-Nitrosodi-n-propylamine	LCS 1.6367	1.6304	mg/kg	100	50~150			N.A.	05-01-2008
	LCS 1.6584	1.6856	mg/kg	102	50~150	2	≤ 20	N.A.	05-09-2008
Pentachlorophenol	LCS 3.2733	2.3555	mg/kg	72	50~150			N.A.	05-01-2008
	LCS 3.3167	2.3214	mg/kg	70	50~150	3	≤ 20	N.A.	05-09-2008
Phenanthrene	LCS Not Spiked	N.D.	mg/kg		N.A.			N.A.	05-01-2008
	LCS Not Spiked	N.D.	mg/kg		N.A.			N.A.	05-09-2008
Phenol	LCS 3.2733	2.9031	mg/kg	89	50~150			N.A.	05-01-2008
	LCS 3.3167	3.0129	mg/kg	91	50~150	2	≤ 20	N.A.	05-09-2008
Pyrene	LCS 1.6367	1.4917	mg/kg	91	50~150			N.A.	05-01-2008
	LCS 1.6584	1.5864	mg/kg	96	50~150	5	≤ 20	N.A.	05-09-2008
1,2,4-Trichlorobenzene	LCS 1.6367	1.0809	mg/kg	66	50~150			N.A.	05-01-2008
	LCS 1.6584	1.1824	mg/kg	71	50~150	7	≤ 20	N.A.	05-09-2008
2,4,5-Trichlorophenol	LCS Not Spiked	N.D.	mg/kg		N.A.			N.A.	05-01-2008
	LCS Not Spiked	N.D.	mg/kg		N.A.			N.A.	05-09-2008

QC Result Summary

2579





Data and Evaluation Report for LCSD

Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Liquid

Technical Manager [Redacted] b6

QC Remarks:

There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	RPD	RPD Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
2,4,6-Trichlorophenol	LCS Not Spiked	N.D.	mg/kg		N.A.			N.A.	05-01-2008
	LCSD Not Spiked	N.D.	mg/kg		N.A.			N.A.	05-09-2008
2-Fluorophenol(Surr)	LCS 3.2733	2.4046	mg/kg	73	50~150			N.A.	05-01-2008
	LCSD 3.3167	2.4733	mg/kg	75	50~150	3		N.A.	05-09-2008
2,4,6-Tribromophenol(Surr)	LCS 3.2733	3.1329	mg/kg	96	50~150			N.A.	05-01-2008
	LCSD 3.3167	3.1904	mg/kg	96	50~150	0		N.A.	05-09-2008
Terphenyl-d14(Surr)	LCS 1.6367	1.5895	mg/kg	97	50~150			N.A.	05-01-2008
	LCSD 1.6584	1.5695	mg/kg	95	50~150	2		N.A.	05-09-2008
Nitrobenzene-d5(Surr)	LCS 1.6367	1.3047	mg/kg	80	50~150			N.A.	05-01-2008
	LCSD 1.6584	1.3294	mg/kg	80	50~150	0		N.A.	05-09-2008

Lab. Sample ID : 46-02-26-07,46-02-26-06  
 Parent Sample : NA  
 Site Local : NA  
 Pretreatment Method : EPA3550  
 Method : EPA8270C

QC Result Summary

2580



Data and Evaluation Report for LCSD

Client Name : USACE FED


All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Solid

Technical Manager : 

bf

QC Remarks:

There is no specific qc remarks.

Analyte		Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	RPD	RPD Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
<b>Herbicides</b>										
Dicamba	LCS	0.05	0.036	mg/kg	71	45~140			N.A.	05-09-2008
	LCSD	0.05	0.036	mg/kg	71	45~140	0	< 30	N.A.	05-13-2008
Dichloroprop	LCS	0.05	0.036	mg/kg	73	45~140			N.A.	05-09-2008
	LCSD	0.05	0.036	mg/kg	72	45~140	1	< 30	N.A.	05-13-2008
2,4-D	LCS	0.05	0.035	mg/kg	70	45~140			N.A.	05-09-2008
	LCSD	0.05	0.036	mg/kg	72	45~140	2	< 30	N.A.	05-13-2008
2,4,5-TP(Silvex)	LCS	0.05	0.038	mg/kg	75	45~140			N.A.	05-09-2008
	LCSD	0.05	0.036	mg/kg	71	45~140	6	< 30	N.A.	05-13-2008
2,4,5-T	LCS	0.05	0.037	mg/kg	73	45~140			N.A.	05-09-2008
	LCSD	0.05	0.037	mg/kg	74	45~140	1	< 30	N.A.	05-13-2008
2,4-DB	LCS	0.05	0.035	mg/kg	70	45~140			N.A.	05-09-2008
	LCSD	0.05	0.035	mg/kg	70	45~140	0	< 30	N.A.	05-13-2008
Picloram	LCS	0.05	0.037	mg/kg	74	45~140			N.A.	05-09-2008
	LCSD	0.05	0.035	mg/kg	70	45~140	5	< 30	N.A.	05-13-2008
2,4-DCAA(Surr)	LCS	0.05	0.056	mg/kg	112	45~140			N.A.	05-09-2008
	LCSD	0.05	0.056	mg/kg	112	45~140			N.A.	05-13-2008

QC Result Summary

2581



Data and Evaluation Report for LCSD

Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Solid

Technical Manager :  b6

QC Remarks:

There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	RPD	RPD Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
---------	---------------	-----------------	------	---------------------	----------------	-----	------------	-----------------------	-----------------------

Lab. Sample ID : 55-01-161-05,55-01-161-04

Parent Sample : NA

Site Local : NA

Pretreatment Method : EPA8151

Method : EPA8151

QC Result Summary

2582

Public Release Requires ROK-US Joint Committee Approval<sup>72/196</sup>



Data and Evaluation Report for LCSD

Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Solid

Technical Manager [Redacted]

b6

QC Remarks:

There is no specific qc remarks.

Analyte		Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	RPD	RPD Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
<b>OCPs</b>										
Aldrin	LCS	0.1	0.096	mg/kg	96	50~140			N.A.	05-08-2008
	LCSD	0.1	0.094	mg/kg	94	50~140	1	< 30	N.A.	05-08-2008
a-BHC	LCS	0.1	0.084	mg/kg	84	50~140			N.A.	05-08-2008
	LCSD	0.1	0.084	mg/kg	84	50~140	1	< 30	N.A.	05-08-2008
b-BHC	LCS	0.1	0.084	mg/kg	84	50~140			N.A.	05-08-2008
	LCSD	0.1	0.09	mg/kg	90	50~140	7	< 30	N.A.	05-08-2008
d-BHC	LCS	0.1	0.086	mg/kg	86	50~140			N.A.	05-08-2008
	LCSD	0.1	0.086	mg/kg	86	50~140	0	< 30	N.A.	05-08-2008
r-BHC	LCS	0.1	0.086	mg/kg	86	50~140			N.A.	05-08-2008
	LCSD	0.1	0.087	mg/kg	87	50~140	1	< 30	N.A.	05-08-2008
a-Chlordane	LCS	0.1	0.097	mg/kg	97	50~140			N.A.	05-08-2008
	LCSD	0.1	0.1	mg/kg	100	50~140	2	< 30	N.A.	05-08-2008
r-Chlordane	LCS	0.1	0.092	mg/kg	92	50~140			N.A.	05-08-2008
	LCSD	0.1	0.094	mg/kg	94	50~140	2	< 30	N.A.	05-08-2008
4,4'-DDD	LCS	0.1	0.093	mg/kg	93	50~140			N.A.	05-08-2008
	LCSD	0.1	0.095	mg/kg	95	50~140	2	< 30	N.A.	05-08-2008
4,4'-DDE	LCS	0.1	0.096	mg/kg	96	50~140			N.A.	05-08-2008
	LCSD	0.1	0.099	mg/kg	99	50~140	3	< 30	N.A.	05-08-2008

QC Result Summary

2583



Data and Evaluation Report for LCSD

Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Solid

Technical Manager :  *bf*

QC Remarks:

There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	RPD	RPD Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
4,4'-DDT	LCS	0.1	0.068	mg/kg	68	50~140		N.A.	05-08-2008
	LCS	0.1	0.068	mg/kg	68	50~140		N.A.	05-08-2008
	LCSD	0.1	0.092	mg/kg	92	50~140	29	< 30	05-08-2008
	LCSD	0.1	0.092	mg/kg	92	50~140	29	< 30	05-08-2008
Dieldrin	LCS	0.1	0.09	mg/kg	90	50~140		N.A.	05-08-2008
	LCS	0.1	0.09	mg/kg	90	50~140		N.A.	05-08-2008
	LCSD	0.1	0.091	mg/kg	91	50~140	0	< 30	05-08-2008
	LCSD	0.1	0.091	mg/kg	91	50~140	0	< 30	05-08-2008
Endosulfan I	LCS	0.1	0.06	mg/kg	60	50~140		N.A.	05-08-2008
	LCS	0.1	0.06	mg/kg	60	50~140		N.A.	05-08-2008
	LCSD	0.1	0.064	mg/kg	64	50~140	7	< 30	05-08-2008
	LCSD	0.1	0.064	mg/kg	64	50~140	7	< 30	05-08-2008
Endosulfan II	LCS	0.1	0.063	mg/kg	63	50~140		N.A.	05-08-2008
	LCS	0.1	0.063	mg/kg	63	50~140		N.A.	05-08-2008
	LCSD	0.1	0.061	mg/kg	61	50~140	3	< 30	05-08-2008
	LCSD	0.1	0.061	mg/kg	61	50~140	3	< 30	05-08-2008
Endosulfan sulfate	LCS	0.1	0.083	mg/kg	83	50~140		N.A.	05-08-2008
	LCS	0.1	0.083	mg/kg	83	50~140		N.A.	05-08-2008
	LCSD	0.1	0.062	mg/kg	62	50~140	28	< 30	05-08-2008
	LCSD	0.1	0.062	mg/kg	62	50~140	28	< 30	05-08-2008
Endrin	LCS	0.1	0.089	mg/kg	89	50~140		N.A.	05-08-2008
	LCS	0.1	0.089	mg/kg	89	50~140		N.A.	05-08-2008
	LCSD	0.1	0.091	mg/kg	91	50~140	2	< 30	05-08-2008
	LCSD	0.1	0.091	mg/kg	91	50~140	2	< 30	05-08-2008
Endrin aldehyde	LCS	0.1	0.064	mg/kg	64	50~140		N.A.	05-08-2008
	LCS	0.1	0.064	mg/kg	64	50~140		N.A.	05-08-2008
	LCSD	0.1	0.066	mg/kg	66	50~140	3	< 30	05-08-2008
	LCSD	0.1	0.066	mg/kg	66	50~140	3	< 30	05-08-2008
Heptachlor	LCS	0.1	0.091	mg/kg	91	50~140		N.A.	05-08-2008
	LCS	0.1	0.091	mg/kg	91	50~140		N.A.	05-08-2008
	LCSD	0.1	0.091	mg/kg	91	50~140	0	< 30	05-08-2008
	LCSD	0.1	0.091	mg/kg	91	50~140	0	< 30	05-08-2008
Heptachlor epoxide	LCS	0.1	0.093	mg/kg	93	50~140		N.A.	05-08-2008
	LCS	0.1	0.093	mg/kg	93	50~140		N.A.	05-08-2008
	LCSD	0.1	0.093	mg/kg	93	50~140	0	< 30	05-08-2008
	LCSD	0.1	0.093	mg/kg	93	50~140	0	< 30	05-08-2008

QC Result Summary

2584



Data and Evaluation Report for LCSD

Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Solid

Technical Manager : 

b6

QC Remarks:

There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	RPD	RPD Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
Methoxychlor	LCS	0.1	0.083	mg/kg	83	50~140		N.A.	05-08-2008
	LCSD	0.1	0.085	mg/kg	85	50~140	2	< 30	05-08-2008
Toxaphene	LCS	0.1	0.079	mg/kg	79	50~140		N.A.	05-08-2008
	LCSD	0.1	0.072	mg/kg	72	50~140	9	< 30	05-08-2008
Decachlorobiphenyl(Surr)	LCS	0.06	0.058	mg/kg	96	40~140		N.A.	05-08-2008
	LCSD	0.06	0.059	mg/kg	98	40~140		N.A.	05-08-2008

Lab. Sample ID : 55-01-160-03,55-01-160-02

Parent Sample : NA

Site Local : NA

Pretreatment Method : EPA3545A

Method : EPA8081

QC Result Summary

2585

Public Release Requires ROK-US Joint Committee Approval<sup>75/196</sup>



Data and Evaluation Report for LCSD

Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Solid

Technical Manager : [REDACTED] b6

QC Remarks:

There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	RPD	RPD Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
<b>OPPs</b>									
Azyphos-methyl	LCS	1	0.614	mg/kg	61	50~140		N.A.	05-08-2008
	LCSD	1	0.626	mg/kg	63	50~140	2	N.A.	05-09-2008
Bolstar(sulprofos)	LCS	1	0.852	mg/kg	85	50~140		N.A.	05-08-2008
	LCSD	1	0.79	mg/kg	79	50~140	8	N.A.	05-09-2008
Chlorpyrifos	LCS	1	1.16	mg/kg	116	50~140		N.A.	05-08-2008
	LCSD	1	1.06	mg/kg	106	50~140	8	N.A.	05-09-2008
Coumaphos	LCS	1	0.702	mg/kg	70	50~140		N.A.	05-08-2008
	LCSD	1	0.696	mg/kg	70	50~140	1	N.A.	05-09-2008
Demeton-O	LCS	1	0.654	mg/kg	65	50~140		N.A.	05-08-2008
	LCSD	1	0.67	mg/kg	67	50~140	2	N.A.	05-09-2008
Demeton-S	LCS	1	0.906	mg/kg	91	50~140		N.A.	05-08-2008
	LCSD	1	0.892	mg/kg	89	50~140	2	N.A.	05-09-2008
Diazinon	LCS	1	1.25	mg/kg	125	50~140		N.A.	05-08-2008
	LCSD	1	1.21	mg/kg	121	50~140	3	N.A.	05-09-2008
Disulfoton	LCS	1	0.964	mg/kg	96	50~140		N.A.	05-08-2008
	LCSD	1	0.928	mg/kg	93	50~140	4	N.A.	05-09-2008
Ethoprop	LCS	1	1.14	mg/kg	114	50~140		N.A.	05-08-2008
	LCSD	1	1.12	mg/kg	112	50~140	2	N.A.	05-09-2008

QC Result Summary

2586



Data and Evaluation Report for LCSD

Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Solid

Technical Manager [Redacted] b6

QC Remarks:

There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	RPD	RPD Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
Fensulfothion	LCS	1	1.03	mg/kg	103	50~140		N.A.	05-08-2008
	LCS	1	1.03	mg/kg	103	50~140		N.A.	05-09-2008
Fenthion	LCS	1	1.17	mg/kg	117	50~140	13	N.A.	05-08-2008
	LCS	1	1.17	mg/kg	117	50~140	13	N.A.	05-09-2008
Merphos	LCS	1	1.12	mg/kg	112	50~140	7	N.A.	05-08-2008
	LCS	1	1.12	mg/kg	112	50~140	7	N.A.	05-09-2008
Mevinphos	LCS	1	0.612	mg/kg	61	50~140	9	N.A.	05-08-2008
	LCS	1	0.612	mg/kg	61	50~140	9	N.A.	05-09-2008
Naled	LCS	1	0.774	mg/kg	77	50~140	5	N.A.	05-08-2008
	LCS	1	0.774	mg/kg	77	50~140	5	N.A.	05-09-2008
Parathion-methyl	LCS	1	0.896	mg/kg	90	50~140	10	N.A.	05-08-2008
	LCS	1	0.896	mg/kg	90	50~140	10	N.A.	05-09-2008
Phorate	LCS	1	0.904	mg/kg	90	50~140	2	N.A.	05-08-2008
	LCS	1	0.904	mg/kg	90	50~140	2	N.A.	05-09-2008
Ronnel	LCS	1	1.02	mg/kg	102	50~140	3	N.A.	05-08-2008
	LCS	1	1.02	mg/kg	102	50~140	3	N.A.	05-09-2008
Stirophos(tetrachlorovinphos)	LCS	1	0.896	mg/kg	90	50~140	10	N.A.	05-08-2008
	LCS	1	0.896	mg/kg	90	50~140	10	N.A.	05-09-2008

QC Result Summary

2587





Data and Evaluation Report for LCSD

Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Solid

Technical Manager :  *66*

QC Remarks:

There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	RPD	RPD Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
Tokuthion(protothiofos)	LCS	1	1.08	mg/kg	108	50~140		N.A.	05-08-2008
	LCSD	1	1.21	mg/kg	121	50~140	12	N.A.	05-09-2008
Trichloronate	LCS	1	0.834	mg/kg	83	50~140		N.A.	05-08-2008
	LCSD	1	0.916	mg/kg	92	50~140	9	N.A.	05-09-2008
Triphenyl Phosphate(Surr)	LCS	1	1.08	mg/kg	108	50~140		N.A.	05-08-2008
	LCSD	1	0.976	mg/kg	98	50~140		N.A.	05-09-2008

Lab. Sample ID : 55-01-160-08,55-01-160-07

Parent Sample : NA

Site Local : NA

Pretreatment Method : EPA3545A

Method : EPA8141

QC Result Summary

*2588*



Data and Evaluation Report for Matrix Spike (Duplicate)

Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Liquid

Technical Manager [Redacted]

66

QC Remarks:

There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	RPD	RPD Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
<b>Heavy Metals</b>									
Aresnic, As	PS Not Spiked	N.D.	U	mg/kg				04-29-2008 04-25-2008	04-29-2008 05-08-2008
	MS 25	24.7		mg/kg	99	80~120		04-29-2008 04-25-2008	04-29-2008 05-08-2008
	MSD 25	24.8		mg/kg	99	80~120	0 ≤20	04-29-2008 04-25-2008	04-29-2008 05-08-2008
Cadmium, Cd	PS Not Spiked	N.D.	U	mg/kg				04-29-2008 04-25-2008	04-29-2008 05-08-2008
	MS 25	26		mg/kg	104	80~120		04-29-2008 04-25-2008	04-29-2008 05-08-2008
	MSD 25	25.7		mg/kg	103	80~120	1 ≤20	04-29-2008 04-25-2008	04-29-2008 05-08-2008
Chromium, Cr	PS Not Spiked	N.D.	U	mg/kg				04-29-2008 04-25-2008	04-29-2008 05-08-2008
	MS 25	26.1		mg/kg	104	80~120		04-29-2008 04-25-2008	04-29-2008 05-08-2008
	MSD 25	25.8		mg/kg	103	80~120	1 ≤20	04-29-2008 04-25-2008	04-29-2008 05-08-2008
Cobalt, Co	PS Not Spiked	N.D.	U	mg/kg				04-29-2008 04-25-2008	04-29-2008 05-08-2008
	MS 25	25.9		mg/kg	103	80~120		04-29-2008 04-25-2008	04-29-2008 05-08-2008
	MSD 25	25.6		mg/kg	102	80~120	1 ≤20	04-29-2008 04-25-2008	04-29-2008 05-08-2008
Lead, Pb	PS Not Spiked	N.D.	U	mg/kg				04-29-2008 04-25-2008	04-29-2008 05-08-2008
	MS 25	25.8		mg/kg	102	80~120		04-29-2008 04-25-2008	04-29-2008 05-08-2008
	MSD 25	25.5		mg/kg	101	80~120	1 ≤20	04-29-2008 04-25-2008	04-29-2008 05-08-2008
Nickel, Ni	PS Not Spiked	N.D.	U	mg/kg				04-29-2008 04-25-2008	04-29-2008 05-08-2008
	MS 25	25.9		mg/kg	104	80~120		04-29-2008 04-25-2008	04-29-2008 05-08-2008
	MSD 25	25.6		mg/kg	102	80~120	1 ≤20	04-29-2008 04-25-2008	04-29-2008 05-08-2008

QC Result Summary

2589



Data and Evaluation Report for Matrix Spike (Duplicate)

Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Liquid

Technical Manager [Redacted] *bb*

QC Remarks:

There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	RPD	RPD Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
Silver, Ag	PS Not Spiked	N.D.	U mg/kg					04-29-2008 04-25-2008	04-29-2008 05-08-2008
	MS 25	26.4	mg/kg	105	80~120			04-29-2008 04-25-2008	04-29-2008 05-08-2008
	MSD 25	25.8	mg/kg	102	80~120	2	≤20	04-29-2008 04-25-2008	04-29-2008 05-08-2008
	Lab. Sample ID : 33-03-40-06,33-03-40-05 Parent Sample : G6-63-7A Site Local : NA Pretreatment Method : EPA3050 Method : EPA6010								
Mercury, Hg	PS Not Spiked	N.D.	F µg/Kg					04-29-2008 04-25-2008	05-07-2008 05-08-2008
	MS 20	21	µg/Kg	105	50~150			04-29-2008 04-25-2008	05-07-2008 05-08-2008
	MSD 20	21	µg/Kg	105	50~150	0	≤20	04-29-2008 04-25-2008	05-07-2008 05-08-2008
	Lab. Sample ID : 70-01-39-11,70-01-39-10 Parent Sample : G6-63-7A Site Local : NA Pretreatment Method : EPA7473 Method : EPA7473								

QC Result Summary

*2590*

Public Release Requires ROK-US Joint Committee Approval <sup>80/196</sup>



Data and Evaluation Report for Matrix Spike (Duplicate)

Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Liquid

Technical Manager : [Redacted]

b6

QC Remarks:

There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	RPD	RPD Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
<b>VOCs</b>									
Benzene	PS Not Spiked	N.D.	U mg/kg					04-29-2008 05-01-2008	04-21-2008 05-01-2008
	MS 2.6886	3.01	mg/kg	112	50~150			04-29-2008 05-01-2008	04-21-2008 05-01-2008
	MSD 2.7448	3	mg/kg	109	50~150	3	≤ 20	04-29-2008 05-01-2008	04-21-2008 05-01-2008
Bromobenzene	PS Not Spiked	N.D.	U mg/kg					04-29-2008 05-01-2008	04-21-2008 05-01-2008
	MS 2.6886	2.53	mg/kg	94	50~150			04-29-2008 05-01-2008	04-21-2008 05-01-2008
	MSD 2.7448	2.63	mg/kg	96	50~150	2	≤ 20	04-29-2008 05-01-2008	04-21-2008 05-01-2008
Bromochloromethane	PS Not Spiked	N.D.	U mg/kg					04-29-2008 05-01-2008	04-21-2008 05-01-2008
	MS 2.6886	2.94	mg/kg	110	50~150			04-29-2008 05-01-2008	04-21-2008 05-01-2008
	MSD 2.7448	2.95	mg/kg	107	50~150	3	≤ 20	04-29-2008 05-01-2008	04-21-2008 05-01-2008
Bromodichloromethane	PS Not Spiked	N.D.	U mg/kg					04-29-2008 05-01-2008	04-21-2008 05-01-2008
	MS 2.6886	2.81	mg/kg	104	50~150			04-29-2008 05-01-2008	04-21-2008 05-01-2008
	MSD 2.7448	2.82	mg/kg	103	50~150	1	≤ 20	04-29-2008 05-01-2008	04-21-2008 05-01-2008
Bromoform	PS Not Spiked	N.D.	U mg/kg					04-29-2008 05-01-2008	04-21-2008 05-01-2008
	MS 2.6886	2.69	mg/kg	100	50~150			04-29-2008 05-01-2008	04-21-2008 05-01-2008
	MSD 2.7448	2.65	mg/kg	96	50~150	4	≤ 20	04-29-2008 05-01-2008	04-21-2008 05-01-2008
Bromomethane	PS Not Spiked	2.62	mg/kg					04-29-2008 05-01-2008	04-21-2008 05-01-2008
	MS 2.6886	4.84	mg/kg	83	50~150			04-29-2008 05-01-2008	04-21-2008 05-01-2008
	MSD 2.7448	4.95	mg/kg	85	50~150	2	≤ 20	04-29-2008 05-01-2008	04-21-2008 05-01-2008

QC Result Summary

2591



Data and Evaluation Report for Matrix Spike (Duplicate)

Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Liquid

Technical Manager [Redacted]

QC Remarks:

There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	RPD	RPD Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
n-Butylbenzene	PS Not Spiked	N.D.	U	mg/kg				04-29-2008 04-21-2008	05-01-2008 05-01-2008
	MS 2.6886	2.96		mg/kg	110	50~150		04-29-2008 04-21-2008	05-01-2008 05-01-2008
	MSD 2.7448	3.05		mg/kg	111	50~150	1 ≤ 20	04-29-2008 04-21-2008	05-01-2008 05-01-2008
sec-Butylbenzene	PS Not Spiked	N.D.	U	mg/kg				04-29-2008 04-21-2008	05-01-2008 05-01-2008
	MS 2.6886	3.07		mg/kg	114	50~150		04-29-2008 04-21-2008	05-01-2008 05-01-2008
	MSD 2.7448	3.12		mg/kg	114	50~150	0 ≤ 20	04-29-2008 04-21-2008	05-01-2008 05-01-2008
tert-Butylbenzene	PS Not Spiked	N.D.	U	mg/kg				04-29-2008 04-21-2008	05-01-2008 05-01-2008
	MS 2.6886	3.08		mg/kg	115	50~150		04-29-2008 04-21-2008	05-01-2008 05-01-2008
	MSD 2.7448	3.12		mg/kg	114	50~150	1 ≤ 20	04-29-2008 04-21-2008	05-01-2008 05-01-2008
Carbon Tetrachloride	PS Not Spiked	N.D.	U	mg/kg				04-29-2008 04-21-2008	05-01-2008 05-01-2008
	MS 2.6886	3.16		mg/kg	118	50~150		04-29-2008 04-21-2008	05-01-2008 05-01-2008
	MSD 2.7448	3.19		mg/kg	116	50~150	2 ≤ 20	04-29-2008 04-21-2008	05-01-2008 05-01-2008
Chlorobenzene	PS Not Spiked	N.D.	U	mg/kg				04-29-2008 04-21-2008	05-01-2008 05-01-2008
	MS 2.6886	2.98		mg/kg	111	50~150		04-29-2008 04-21-2008	05-01-2008 05-01-2008
	MSD 2.7448	2.96		mg/kg	108	50~150	3 ≤ 20	04-29-2008 04-21-2008	05-01-2008 05-01-2008
Chloroethane	PS Not Spiked	N.D.	U	mg/kg				04-29-2008 04-21-2008	05-01-2008 05-01-2008
	MS 2.6886	2.44		mg/kg	91	50~150		04-29-2008 04-21-2008	05-01-2008 05-01-2008
	MSD 2.7448	2.56		mg/kg	93	50~150	2 ≤ 20	04-29-2008 04-21-2008	05-01-2008 05-01-2008

QC Result Summary

2592



Data and Evaluation Report for Matrix Spike (Duplicate)

Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Liquid

Technical Manager [Redacted] b6

QC Remarks:

There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	RPD	RPD Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
Chloroform	PS Not Spiked	N.D.	U	mg/kg				04-29-2008 05-01-2008	04-21-2008 05-01-2008
	MS 2.6886	2.98		mg/kg	111	50~150		04-29-2008 05-01-2008	04-21-2008 05-01-2008
	MSD 2.7448	3		mg/kg	109	50~150	2 ≤ 20	04-29-2008 05-01-2008	04-21-2008 05-01-2008
Chloromethane	PS Not Spiked	2.75		mg/kg				04-29-2008 05-01-2008	04-21-2008 05-01-2008
	MS 2.6886	4.89		mg/kg	80	50~150		04-29-2008 05-01-2008	04-21-2008 05-01-2008
	MSD 2.7448	5.08		mg/kg	85	50~150	6 ≤ 20	04-29-2008 05-01-2008	04-21-2008 05-01-2008
2-Chlorotoluene	PS Not Spiked	N.D.	U	mg/kg				04-29-2008 05-01-2008	04-21-2008 05-01-2008
	MS 2.6886	2.7		mg/kg	101	50~150		04-29-2008 05-01-2008	04-21-2008 05-01-2008
	MSD 2.7448	2.93		mg/kg	107	50~150	6 ≤ 20	04-29-2008 05-01-2008	04-21-2008 05-01-2008
4-Chlorotoluene	PS Not Spiked	N.D.	U	mg/kg				04-29-2008 05-01-2008	04-21-2008 05-01-2008
	MS 2.6886	2.83		mg/kg	105	50~150		04-29-2008 05-01-2008	04-21-2008 05-01-2008
	MSD 2.7448	2.96		mg/kg	108	50~150	3 ≤ 20	04-29-2008 05-01-2008	04-21-2008 05-01-2008
Dibromochloromethane	PS Not Spiked	N.D.	U	mg/kg				04-29-2008 05-01-2008	04-21-2008 05-01-2008
	MS 2.6886	2.5		mg/kg	93	50~150		04-29-2008 05-01-2008	04-21-2008 05-01-2008
	MSD 2.7448	2.56		mg/kg	93	50~150	0 ≤ 20	04-29-2008 05-01-2008	04-21-2008 05-01-2008
1,2-Dibromo-3-chloropropane	PS Not Spiked	N.D.	U	mg/kg				04-29-2008 05-01-2008	04-21-2008 05-01-2008
	MS 2.6886	2.23		mg/kg	83	50~150		04-29-2008 05-01-2008	04-21-2008 05-01-2008
	MSD 2.7448	2.44		mg/kg	89	50~150	7 ≤ 20	04-29-2008 05-01-2008	04-21-2008 05-01-2008

QC Result Summary

2593



Data and Evaluation Report for Matrix Spike (Duplicate)

Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Liquid

Technical Manager : [Redacted]

QC Remarks:

There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	RPD	RPD Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
1,2-Dibromoethane	PS Not Spiked	N.D.	U mg/kg					04-29-2008 05-01-2008	04-21-2008 05-01-2008
	MS 2.6886	2.73	mg/kg	101	50~150			04-29-2008 05-01-2008	04-21-2008 05-01-2008
	MSD 2.7448	2.76	mg/kg	101	50~150	0	≤ 20	04-29-2008 05-01-2008	04-21-2008 05-01-2008
Dibromomethane	PS Not Spiked	N.D.	U mg/kg					04-29-2008 05-01-2008	04-21-2008 05-01-2008
	MS 2.6886	2.83	mg/kg	105	50~150			04-29-2008 05-01-2008	04-21-2008 05-01-2008
	MSD 2.7448	2.87	mg/kg	105	50~150	0	≤ 20	04-29-2008 05-01-2008	04-21-2008 05-01-2008
1,2-Dichlorobenzene	PS Not Spiked	N.D.	U mg/kg					04-29-2008 05-01-2008	04-21-2008 05-01-2008
	MS 2.6886	2.69	mg/kg	100	50~150			04-29-2008 05-01-2008	04-21-2008 05-01-2008
	MSD 2.7448	2.81	mg/kg	102	50~150	2	≤ 20	04-29-2008 05-01-2008	04-21-2008 05-01-2008
1,3-Dichlorobenzene	PS Not Spiked	N.D.	U mg/kg					04-29-2008 05-01-2008	04-21-2008 05-01-2008
	MS 2.6886	2.76	mg/kg	103	50~150			04-29-2008 05-01-2008	04-21-2008 05-01-2008
	MSD 2.7448	2.87	mg/kg	105	50~150	2	≤ 20	04-29-2008 05-01-2008	04-21-2008 05-01-2008
1,4-Dichlorobenzene	PS Not Spiked	N.D.	U mg/kg					04-29-2008 05-01-2008	04-21-2008 05-01-2008
	MS 2.6886	2.7	mg/kg	101	50~150			04-29-2008 05-01-2008	04-21-2008 05-01-2008
	MSD 2.7448	2.8	mg/kg	102	50~150	1	≤ 20	04-29-2008 05-01-2008	04-21-2008 05-01-2008
Dichlorodifluoromethane	PS Not Spiked	N.D.	U mg/kg					04-29-2008 05-01-2008	04-21-2008 05-01-2008
	MS 2.6886	3.37	mg/kg	125	50~150			04-29-2008 05-01-2008	04-21-2008 05-01-2008
	MSD 2.7448	3.16	mg/kg	115	50~150	8	≤ 20	04-29-2008 05-01-2008	04-21-2008 05-01-2008

QC Result Summary

2594



Data and Evaluation Report for Matrix Spike (Duplicate)

Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008 26

Matrix : Liquid

Technical Manager : [REDACTED]

QC Remarks: There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	RPD	RPD Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
1,1-Dichloroethane	PS Not Spiked	N.D.	U	mg/kg				04-29-2008 04-21-2008	05-01-2008 05-01-2008
	MS 2.6886	3.41		mg/kg	127	50~150		04-29-2008 04-21-2008	05-01-2008 05-01-2008
	MSD 2.7448	3.31		mg/kg	121	50~150	5 ≤ 20	04-29-2008 04-21-2008	05-01-2008 05-01-2008
1,2-Dichloroethane	PS Not Spiked	N.D.	U	mg/kg				04-29-2008 04-21-2008	05-01-2008 05-01-2008
	MS 2.6886	2.95		mg/kg	110	50~150		04-29-2008 04-21-2008	05-01-2008 05-01-2008
	MSD 2.7448	2.95		mg/kg	108	50~150	2 ≤ 20	04-29-2008 04-21-2008	05-01-2008 05-01-2008
1,1-Dichloroethene	PS Not Spiked	N.D.	U	mg/kg				04-29-2008 04-21-2008	05-01-2008 05-01-2008
	MS 2.6886	2.85		mg/kg	106	50~150		04-29-2008 04-21-2008	05-01-2008 05-01-2008
	MSD 2.7448	2.85		mg/kg	104	50~150	2 ≤ 20	04-29-2008 04-21-2008	05-01-2008 05-01-2008
cis-1,2-Dichloroethene	PS Not Spiked	N.D.	U	mg/kg				04-29-2008 04-21-2008	05-01-2008 05-01-2008
	MS 2.6886	2.88		mg/kg	107	50~150		04-29-2008 04-21-2008	05-01-2008 05-01-2008
	MSD 2.7448	2.91		mg/kg	106	50~150	1 ≤ 20	04-29-2008 04-21-2008	05-01-2008 05-01-2008
trans-1,2-Dichloroethene	PS Not Spiked	N.D.	U	mg/kg				04-29-2008 04-21-2008	05-01-2008 05-01-2008
	MS 2.6886	3.06		mg/kg	114	50~150		04-29-2008 04-21-2008	05-01-2008 05-01-2008
	MSD 2.7448	2.97		mg/kg	108	50~150	5 ≤ 20	04-29-2008 04-21-2008	05-01-2008 05-01-2008
1,2-Dichloropropane	PS Not Spiked	N.D.	U	mg/kg				04-29-2008 04-21-2008	05-01-2008 05-01-2008
	MS 2.6886	2.9		mg/kg	108	50~150		04-29-2008 04-21-2008	05-01-2008 05-01-2008
	MSD 2.7448	2.95		mg/kg	107	50~150	1 ≤ 20	04-29-2008 04-21-2008	05-01-2008 05-01-2008

QC Result Summary

2595





Data and Evaluation Report for Matrix Spike (Duplicate)

Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Liquid

Technical Manager [Redacted]

QC Remarks:

There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	RPD	RPD Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
1,3-Dichloropropane	PS Not Spiked	N.D.	U mg/kg					04-29-2008 05-01-2008 04-21-2008 05-01-2008	
	MS 2.6886	2.77	mg/kg	103	50~150			04-29-2008 05-01-2008 04-21-2008 05-01-2008	
	MSD 2.7448	2.82	mg/kg	103	50~150	0	≤ 20	04-29-2008 05-01-2008 04-21-2008 05-01-2008	
2,2-Dichloropropane	PS Not Spiked	N.D.	U mg/kg					04-29-2008 05-01-2008 04-21-2008 05-01-2008	
	MS 2.6886	3.58	mg/kg	133	50~150			04-29-2008 05-01-2008 04-21-2008 05-01-2008	
	MSD 2.7448	3.43	mg/kg	125	50~150	6	≤ 20	04-29-2008 05-01-2008 04-21-2008 05-01-2008	
1,1-Dichloropropene	PS Not Spiked	N.D.	U mg/kg					04-29-2008 05-01-2008 04-21-2008 05-01-2008	
	MS 2.6886	3.04	mg/kg	113	50~150			04-29-2008 05-01-2008 04-21-2008 05-01-2008	
	MSD 2.7448	3.08	mg/kg	112	50~150	1	≤ 20	04-29-2008 05-01-2008 04-21-2008 05-01-2008	
cis-1,3-Dichloropropene	PS Not Spiked	N.D.	U mg/kg					04-29-2008 05-01-2008 04-21-2008 05-01-2008	
	MS 2.6886	3.49	mg/kg	130	50~150			04-29-2008 05-01-2008 04-21-2008 05-01-2008	
	MSD 2.7448	3.47	mg/kg	127	50~150	2	≤ 20	04-29-2008 05-01-2008 04-21-2008 05-01-2008	
trans-1,3-Dichloropropene	PS Not Spiked	N.D.	U mg/kg					04-29-2008 05-01-2008 04-21-2008 05-01-2008	
	MS 2.6886	2.92	mg/kg	109	50~150			04-29-2008 05-01-2008 04-21-2008 05-01-2008	
	MSD 2.7448	2.89	mg/kg	105	50~150	4	≤ 20	04-29-2008 05-01-2008 04-21-2008 05-01-2008	
Ethylbenzene	PS Not Spiked	N.D.	U mg/kg					04-29-2008 05-01-2008 04-21-2008 05-01-2008	
	MS 2.6886	3.06	mg/kg	114	50~150			04-29-2008 05-01-2008 04-21-2008 05-01-2008	
	MSD 2.7448	3.07	mg/kg	112	50~150	2	≤ 20	04-29-2008 05-01-2008 04-21-2008 05-01-2008	

QC Result Summary

2596



Data and Evaluation Report for Matrix Spike (Duplicate)

Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Liquid

Technical Manager [Redacted]

b6

QC Remarks:

There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	RPD	RPD Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
Hexachlorobutadiene	PS Not Spiked	N.D.	U	mg/kg				04-29-2008 05-01-2008	04-21-2008 05-01-2008
	MS 2.6886	3.21	mg/kg	119	50~150			04-29-2008 05-01-2008	04-21-2008 05-01-2008
	MSD 2.7448	3.47	mg/kg	126	50~150	6	≤ 20	04-29-2008 05-01-2008	04-21-2008 05-01-2008
Isopropylbenzene	PS Not Spiked	N.D.	U	mg/kg				04-29-2008 05-01-2008	04-21-2008 05-01-2008
	MS 2.6886	3.05	mg/kg	113	50~150			04-29-2008 05-01-2008	04-21-2008 05-01-2008
	MSD 2.7448	3.01	mg/kg	110	50~150	3	≤ 20	04-29-2008 05-01-2008	04-21-2008 05-01-2008
p-Isopropyltoluene	PS Not Spiked	N.D.	U	mg/kg				04-29-2008 05-01-2008	04-21-2008 05-01-2008
	MS 2.6886	2.97	mg/kg	111	50~150			04-29-2008 05-01-2008	04-21-2008 05-01-2008
	MSD 2.7448	3.03	mg/kg	111	50~150	0	≤ 20	04-29-2008 05-01-2008	04-21-2008 05-01-2008
Methylene chloride	PS Not Spiked	N.D.	U	mg/kg				04-29-2008 05-01-2008	04-21-2008 05-01-2008
	MS 2.6886	3.2	mg/kg	119	50~150			04-29-2008 05-01-2008	04-21-2008 05-01-2008
	MSD 2.7448	2.99	mg/kg	109	50~150	9	≤ 20	04-29-2008 05-01-2008	04-21-2008 05-01-2008
Naphthalene	PS Not Spiked	N.D.	U	mg/kg				04-29-2008 05-01-2008	04-21-2008 05-01-2008
	MS 2.6886	2.43	mg/kg	90	50~150			04-29-2008 05-01-2008	04-21-2008 05-01-2008
	MSD 2.7448	2.59	mg/kg	94	50~150	4	≤ 20	04-29-2008 05-01-2008	04-21-2008 05-01-2008
n-Propylbenzene	PS Not Spiked	N.D.	U	mg/kg				04-29-2008 05-01-2008	04-21-2008 05-01-2008
	MS 2.6886	3.02	mg/kg	112	50~150			04-29-2008 05-01-2008	04-21-2008 05-01-2008
	MSD 2.7448	3.15	mg/kg	115	50~150	3	≤ 20	04-29-2008 05-01-2008	04-21-2008 05-01-2008

QC Result Summary

2597



Data and Evaluation Report for Matrix Spike (Duplicate)

Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Liquid

Technical Manager [Redacted]

bf

QC Remarks:

There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	RPD	RPD Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
Styrene	PS Not Spiked	N.D.	U mg/kg					04-29-2008 04-21-2008	05-01-2008 05-01-2008
	MS 2.6886	2.95	mg/kg	110	50~150			04-29-2008 04-21-2008	05-01-2008 05-01-2008
	MSD 2.7448	2.91	mg/kg	106	50~150	4	≤ 20	04-29-2008 04-21-2008	05-01-2008 05-01-2008
1,1,1,2-Tetrachloroethane	PS Not Spiked	N.D.	U mg/kg					04-29-2008 04-21-2008	05-01-2008 05-01-2008
	MS 2.6886	2.8	mg/kg	104	50~150			04-29-2008 04-21-2008	05-01-2008 05-01-2008
	MSD 2.7448	2.79	mg/kg	102	50~150	2	≤ 20	04-29-2008 04-21-2008	05-01-2008 05-01-2008
1,1,2,2-Tetrachloroethane	PS Not Spiked	N.D.	U mg/kg					04-29-2008 04-21-2008	05-01-2008 05-01-2008
	MS 2.6886	2.93	mg/kg	109	50~150			04-29-2008 04-21-2008	05-01-2008 05-01-2008
	MSD 2.7448	2.95	mg/kg	107	50~150	2	≤ 20	04-29-2008 04-21-2008	05-01-2008 05-01-2008
Tetrachloroethene	PS Not Spiked	N.D.	U mg/kg					04-29-2008 04-21-2008	05-01-2008 05-01-2008
	MS 2.6886	3	mg/kg	111	50~150			04-29-2008 04-21-2008	05-01-2008 05-01-2008
	MSD 2.7448	3.18	mg/kg	116	50~150	4	≤ 20	04-29-2008 04-21-2008	05-01-2008 05-01-2008
Toluene	PS Not Spiked	N.D.	U mg/kg					04-29-2008 04-21-2008	05-01-2008 05-01-2008
	MS 2.6886	2.98	mg/kg	111	50~150			04-29-2008 04-21-2008	05-01-2008 05-01-2008
	MSD 2.7448	3.04	mg/kg	111	50~150	0	≤ 20	04-29-2008 04-21-2008	05-01-2008 05-01-2008
1,2,3-Trichlorobenzene	PS Not Spiked	N.D.	U mg/kg					04-29-2008 04-21-2008	05-01-2008 05-01-2008
	MS 2.6886	2.63	mg/kg	98	50~150			04-29-2008 04-21-2008	05-01-2008 05-01-2008
	MSD 2.7448	2.82	mg/kg	103	50~150	5	≤ 20	04-29-2008 04-21-2008	05-01-2008 05-01-2008

QC Result Summary

2598



Data and Evaluation Report for Matrix Spike (Duplicate)

Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Liquid

Technical Manager [Redacted]

bl

QC Remarks:

There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	RPD	RPD Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
1,2,4-Trichlorobenzene	PS Not Spiked	N.D.	U	mg/kg				04-29-2008 05-01-2008 04-21-2008 05-01-2008	
	MS 2.6886	2.7		mg/kg	101		50~150	04-29-2008 05-01-2008 04-21-2008 05-01-2008	
	MSD 2.7448	3.03		mg/kg	110	9	≤ 20	04-29-2008 05-01-2008 04-21-2008 05-01-2008	
1,1,1-Trichloroethane	PS Not Spiked	N.D.	U	mg/kg				04-29-2008 05-01-2008 04-21-2008 05-01-2008	
	MS 2.6886	3.13		mg/kg	116		50~150	04-29-2008 05-01-2008 04-21-2008 05-01-2008	
	MSD 2.7448	3.16		mg/kg	115	1	≤ 20	04-29-2008 05-01-2008 04-21-2008 05-01-2008	
1,1,2-Trichloroethane	PS Not Spiked	N.D.	U	mg/kg				04-29-2008 05-01-2008 04-21-2008 05-01-2008	
	MS 2.6886	2.83		mg/kg	105		50~150	04-29-2008 05-01-2008 04-21-2008 05-01-2008	
	MSD 2.7448	2.8		mg/kg	102	3	≤ 20	04-29-2008 05-01-2008 04-21-2008 05-01-2008	
Trichloroethene	PS Not Spiked	N.D.	U	mg/kg				04-29-2008 05-01-2008 04-21-2008 05-01-2008	
	MS 2.6886	3.04		mg/kg	113		50~150	04-29-2008 05-01-2008 04-21-2008 05-01-2008	
	MSD 2.7448	3.06		mg/kg	111	2	≤ 20	04-29-2008 05-01-2008 04-21-2008 05-01-2008	
Trichlorofluoromethane	PS Not Spiked	N.D.	U	mg/kg				04-29-2008 05-01-2008 04-21-2008 05-01-2008	
	MS 2.6886	2.56		mg/kg	95		50~150	04-29-2008 05-01-2008 04-21-2008 05-01-2008	
	MSD 2.7448	2.7		mg/kg	98	3	≤ 20	04-29-2008 05-01-2008 04-21-2008 05-01-2008	
1,2,3-Trichloropropane	PS Not Spiked	N.D.	U	mg/kg				04-29-2008 05-01-2008 04-21-2008 05-01-2008	
	MS 2.6886	2.88		mg/kg	107		50~150	04-29-2008 05-01-2008 04-21-2008 05-01-2008	
	MSD 2.7448	2.95		mg/kg	108	1	≤ 20	04-29-2008 05-01-2008 04-21-2008 05-01-2008	

QC Result Summary

2599



Data and Evaluation Report for Matrix Spike (Duplicate)

Client Name : USACE FED

All Dates/Times are Korean Standard Time

Project Name : DO0005-12

Project No. : 08-014E

Printed Date/Time : 05-14-2008

Matrix : Liquid

Technical Manager [Redacted] *bl*

QC Remarks:

There is no specific qc remarks.

Analyte	Spiked Amount	Measured Amount	Unit	Percent Recovery(%)	Control Limits	RPD	RPD Limits	Rece. Date Coll. Date	Prep. Date Anal. Date
1,2,4-Trimethylbenzene	PS Not Spiked	N.D.	U	mg/kg				04-29-2008 05-01-2008 04-21-2008 05-01-2008	
	MS 2.6886	2.77	mg/kg	103	50~150			04-29-2008 05-01-2008 04-21-2008 05-01-2008	
	MSD 2.7448	2.81	mg/kg	103	50~150	0	≤ 20	04-29-2008 05-01-2008 04-21-2008 05-01-2008	
1,3,5-Trimethylbenzene	PS Not Spiked	N.D.	U	mg/kg				04-29-2008 05-01-2008 04-21-2008 05-01-2008	
	MS 2.6886	2.87	mg/kg	107	50~150			04-29-2008 05-01-2008 04-21-2008 05-01-2008	
	MSD 2.7448	2.91	mg/kg	106	50~150	1	≤ 20	04-29-2008 05-01-2008 04-21-2008 05-01-2008	
Vinyl Chloride	PS Not Spiked	N.D.	U	mg/kg				04-29-2008 05-01-2008 04-21-2008 05-01-2008	
	MS 2.6886	1.98	mg/kg	74	50~150			04-29-2008 05-01-2008 04-21-2008 05-01-2008	
	MSD 2.7448	1.85	mg/kg	67	50~150	10	≤ 20	04-29-2008 05-01-2008 04-21-2008 05-01-2008	
o-Xylene	PS Not Spiked	N.D.	U	mg/kg				04-29-2008 05-01-2008 04-21-2008 05-01-2008	
	MS 2.6886	3.03	mg/kg	113	50~150			04-29-2008 05-01-2008 04-21-2008 05-01-2008	
	MSD 2.7448	3.01	mg/kg	110	50~150	3	≤ 20	04-29-2008 05-01-2008 04-21-2008 05-01-2008	
m-Xylene	PS Not Spiked	N.D.	U	mg/kg				04-29-2008 05-01-2008 04-21-2008 05-01-2008	
	MS 2.6886	3.06	mg/kg	114	50~150			04-29-2008 05-01-2008 04-21-2008 05-01-2008	
	MSD 2.7448	3.07	mg/kg	112	50~150	2	≤ 20	04-29-2008 05-01-2008 04-21-2008 05-01-2008	
Acetone	PS Not Spiked	1.39	mg/kg					04-29-2008 05-01-2008 04-21-2008 05-01-2008	
	MS 2.6886	3.05	mg/kg	62	50~150			04-29-2008 05-01-2008 04-21-2008 05-01-2008	
	MSD 2.7448	3.28	mg/kg	69	50~150	11	≤ 20	04-29-2008 05-01-2008 04-21-2008 05-01-2008	

QC Result Summary

2600