

18912 North Creek Parkway • Suite 100 • Bothell, Washington 98011-8016 • (206) 485-5000 • Fax (206) 486-9766

Privileged and Confidential

October 25, 1996 Project 40358-017.001

RECEIVED

JAN 11 1997

DETI. UI LUULUUY

Ms. Reta Jensen Monroe Auto Salvage 426 Fremont Street Monroe, Washington 98272

Re: Monroe Auto Salvage Site Investigation - Additional PCB Sampling

Dear Ms. Jensen:

This letter report summarizes results of additional polychlorinated biphenyl (PCB) sampling conducted at the Monroe Auto Salvage site. The purpose of the sampling was to 1) determine whether PCB contamination extended under the concrete foundation of the electrical room, 2) determine the extent of PCBs at a previously sampled grid location that showed PCBs, and 3) characterize the dark-stained soils at the southeast side of the electrical building. The additional PCB samples were collected on September 5, 1996.

SAMPLE COLLECTION

Three soil samples were collected from beneath the concrete slab foundation of the electrical building. Sample locations are shown on Figure 1. Sample ER-E was collected from the east side of the room housing electrical equipment, adjacent to the power pole. Sample ER-W was collected from the west side of the electrical room, and sample ER-S was collected from the south side of the electrical room. The concrete slab building foundation was approximately 15-inches-thick at the locations where samples ER-E and ER-S were collected, and approximately 5-inches-thick where sample ER-W was collected. These three samples were all collected from beneath the concrete slab.

Sample ER-SE was collected from the surface to a depth of 1 inch from the dark stained soils at the southeast corner of the electrical room. The dark-stained soils were observed to extend from the southeast corner of the electrical room south approximately 4 feet and west approximately 4 feet in a semicircular area.

Samples MAS-05N-Grid, MAS-05E-Grid, MAS-05S-Grid, and MAS-05W-Grid were collected around the former MAS-05-Grid location (see July 26, 1996 letter report for MAS-05-Grid location). Each of these samples was collected from the surface to a depth of 6 inches at locations 2 feet from the former grid sample.

All of the samples were submitted to Columbia Analytical Services in Bothell, Washington for analysis of PCBs. In addition, sample ER-SE was submitted to Analytical Research, Incorporated, in Seattle, Washington for confirmation of the PCB levels that were initially reported.

Project 40358-017.001

Ms. Reta Jensen October 25, 1996 Page 2

LABORATORY RESULTS

Results from the laboratory testing are summarized in Table 1. PCBs were not detected in any of the three samples collected from beneath the electrical building concrete slab foundation (samples ER-E, ER-W, and ER-S). The sample of dark stained soil (sample ER-SE) showed a concentration of 22,000 mg/kg PCBs in the initial analysis performed by CAS. The sample was subsequently sent to ARI to confirm the concentration through an additional duplicate analysis. The duplicate analysis by ARI showed PCB concentrations of 18,000 mg/kg and 37,000 mg/kg.

Sample MAS-05E was non-detect for PCBs. Sample MAS-05N showed a PCB concentration of 1.1 mg/kg, sample MAS-05S showed a PCB concentration of 2.0 mg/kg, and sample MAS-05W showed a PCB concentration of 2.6 mg/kg.

CONCLUSIONS

Results from the samples collected beneath the electrical building concrete slab foundation indicate that PCB contamination does not extend below the concrete foundation. The analysis of the sample of the dark-stained soils at the southeast corner of the electrical building showed PCB concentrations in the range of 18,000 to 37,000 mg/kg. The concentration of PCBs in the dark stained soils is greater than the MTCA Method C Cleanup Level of 17 mg/kg.

The four samples collected from the area of sample MAS-05-Grid all showed concentrations either non-detect or less than 5 mg/kg PCBs, indicating that the PCBs at this location are limited in extent.

If you have any questions or if we can be of assistance, please do not hesitate to give us a call at (206) 485-5000.

Sincerely,

EMCON

John Virgin

Environmental Scientist

Linda Dawson

Director of Environmental Services

Attachments: Limitations

Figure 1

- Sample Locations

Figure 2

- Dark-stained Soil Location

Table 1

- Laboratory Results for PCB Analyses

Attachment A - Laboratory Data

cc w/att:

Jim Crane; Copeland, Landye, Bennett and Wolf, LLP

Table 1
Laboratory Results for PCB Analyses
Additional PCB Sampling
Monroe Auto Salvage Site Investigation

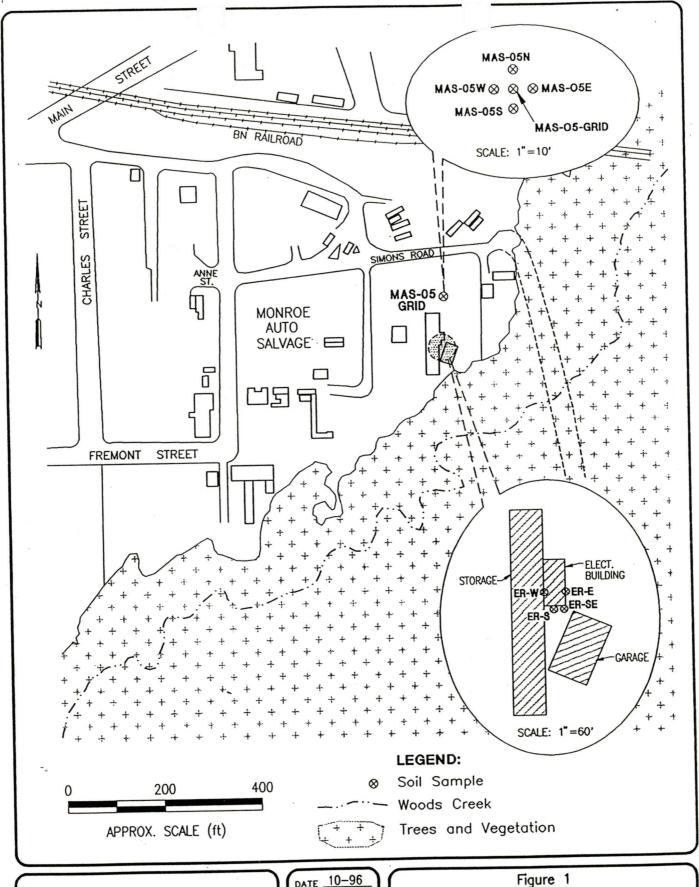
		Results of Analyses												
Sample	Aroclor	Aroclor	Aroclor	Aroclor	Aroclor	Aroclor	Aroclor	Total						
Number	1016	1221	1232	1242	1248	1254	1260	PCBs						
ER-E	<1	<1	<1	<1	<1	< 1	< 1	< 1						
ER-SE ^a	< 1	< 1	< 1	< 1	< 1	22,000	< 1	22,000						
ER-SE ^b	< 1	<1	<1	<1	<1	18,000	< 1	18,000						
ER-SE ^b	< 1	< 1	< 1	<1	<1	37,000	< 1	37,000						
ER-S	<1	< 1	<1	< 1	< 1	< 1	< 1	< 1						
ER-W	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1						
MAS-05N	<1	<1	<1	<1	< 1	1.1	< 1	1.1						
MAS-05S	<1	<1	< 1	<1	< 1	2.0	< 1	2.0						
MAS-05E	< 1	< 1	< 1	< 1	<1	< 1	< 1	< 1						
MAS-05W	<1	< 1	< 1	<1	< 1	2.6	<1	2.6						
MAS-03 W Method C Cleanup Level ^o														

Notes: < indicates compound was not detected at method reporting limit shown.

^a Initial analysis results from Columbia Analytical Services.

^b Duplicate re-analysis results from Analytical Resources, Inc.

Method C formula values from Ecology, 1996. Model Toxics Control Act Cleanup Levels and Risk Calculations (CLARC II) Update. February.



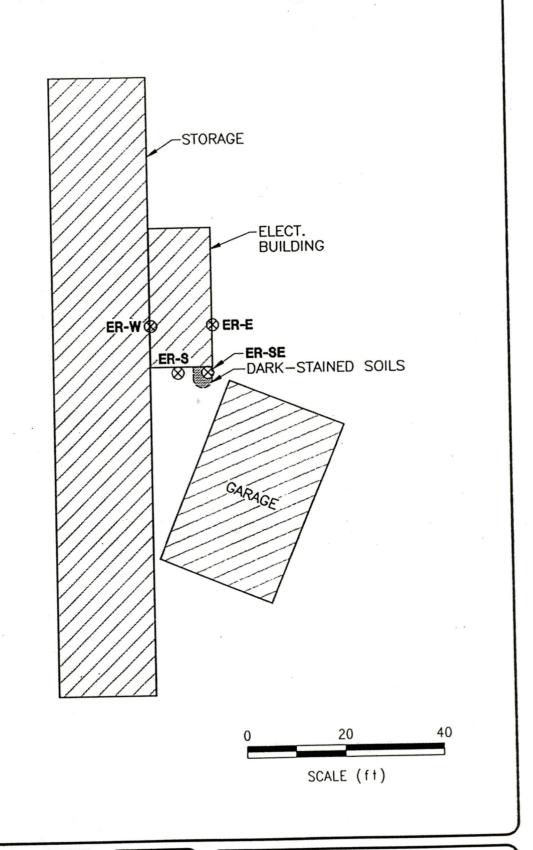


1= 200

DATE 10-96
DWN. MLP
REV. _____
APPR. ____
PROJECT NO. 40358-017.001

MONROE AUTO SALVAGE SITE INVESTIGATION
MONROE, WASHINGTON

ADDITIONAL PCB SAMPLING SAMPLE LOCATIONS





DATE 10-96 DWN. MLP PROJECT NO.

40358-017.001

Figure 2 MONROE AUTO SALVAGE SITE INVESTIGATION MONROE, WASHINGTON

ADDITIONAL PCB SAMPLING DARK-STAINED SOIL LOCATION

OCT 1 / 1996

017.00

October 10, 1996

Mr. Colin Elliot Columbia Analytical Services, Inc. 18912 North Creek Pkwy, Suite 118 Bothell, WA 98011

RE: Monroe Auto Salvage PCB Determination

ARI Job No. Q358

Dear Mr. Elliot:

Please find enclosed original chain-of-custody documentation (COC) and analytical results for the projects referenced above. Analytical Resources, Inc. (ARI) accepted one soil sample (ER-SE) on October 3, 1996. ARI received the sample intact with no discrepancies between the sample container and the COC documentation. As you requested, the laboratory analyzed the sample in duplicate and a copy of the results was supplied to you by facsimile on October 8, 1996.

The laboratory performed a sulfuric acid clean up procedure prior to analysis. A sample dilution and re analysis was required due to detector saturation. The sample exhibits poor replication. The poor duplication can be attributed to sample heterogeneity and inherent variability when making multiple sample dilutions.

As always, a copy of this report and the supporting data will remain on file with ARI. Should you have any questions, or require additional information please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Bryan D. Anderson Project Manager 206/340-2866, ext. 116

enclosure cc: Files: Q358

BDA/bda



Sample No: Method Blank

Lab Sample ID: Q358MB

QC Report No: Q358-Columbia Analytical Services

LIMS ID: 96-16861

Project: Monroe Auto Salvage

Matrix: Soil

Date Sampled: NA

Data Release Authorized:

Date Received:

Reported: 10/08/96

GPC Cleanup: No Date extracted: 10/04/96 Date analyzed: 10/04/96

Sample Amount: 5.00 g-dry-wt

Final Ext Vol: 40 mL

pH: NA

Florisil Cleanup: No Acid Cleanup: Yes Sulfur Cleanup: No

Conc/Dilution Factor: 1:1 Percent Moisture: NA

Reported in Total mg/kg Dry Weight

CAS Number	Analyte	Value	
12674-11-2	Aroclor 1016	0.8	U
53469-21-9	Aroclor 1242	0.8	U
12672-29-6	Aroclor 1248	0.8	U
11097-69-1	Aroclor 1254	0.8	U
11096-82-5	Aroclor 1260	0.8	U

PCB-Aroclor Surrogate Recovery

Decachlorobiphenyl 72.5% Tetrachlorometaxylene 69.5%

- Indicates an estimated value when that result is less than the J calculated detection limit.
- Indicates a value above the linear range of the detector. Dilution Required
- Indicates no value reported due to saturation of the detector.
- Indicates the surrogate was diluted out. D
- Indicates compound was analyzed for, but not detected at the Ħ given detection limit.
- Found in associated method blank B
- Indicates compound was not analyzed. NA
- Indicates no recovery due to interferences. NR
- Indicates a raised reporting limit due to matrix interferences. Y The analyte may be present at or below the listed concentration, but in the opinion of the analyst, confirmation was inadequate.



Sample No: ER-SE DUPLICATE

Lab Sample ID: Q358A-DUP

QC Report No: Q358-Columbia Analytical Services

LIMS ID: 96-16861

Project: Monroe Auto Salvage

Matrix: Soil

Date Sampled: 09/05/96 Date Received 10/03/96

Data Release Authorized:

Reported: 10/08/96

till. Newman

Date extracted: 10/04/96

Date analyzed: 10/04/96

GPC Cleanup: No Florisil Cleanup: No Acid Cleanup: Yes Sulfur Cleanup: No

Sample Amount: 3.15 g-dry-wt

Conc/Dilution Factor: 1:1

Final Ext Vol: 40 mL

Percent Moisture: 37.3%

: Hq 6.2

Reported in Total mg/kg Dry Weight

CAS Number	Analyte	Value
12674-11-2	Aroclor 1016	s
53469-21-9	Aroclor 1242	S
12672-29-6	Aroclor 1248	S
11097-69-1	Aroclor 1254	S
11096-82-5	Aroclor 1260	S

PCB-Aroclor Surrogate Recovery

196% Decachlorobiphenyl Tetrachlorometaxylene 28.0%

- Indicates an estimated value when that result is less than the J calculated detection limit. .
- Indicates a value above the linear range of the detector. E Dilution Required
- Indicates no value reported due to saturation of the detector. S
- Indicates the surrogate was diluted out. D
- Indicates compound was analyzed for, but not detected at the U given detection limit.
- Found in associated method blank B
- Indicates compound was not analyzed. NA
- Indicates no recovery due to interferences. NR
- Indicates a raised reporting limit due to matrix interferences. The analyte may be present at or below the listed concentration, but in the opinion of the analyst, confirmation was inadequate.



Sample No: ER-SE

DUPLICATE-DL

Lab Sample ID: Q358A-RDL

QC Report No: Q358-Columbia Analytical Services

Project: Monroe Auto Salvage

LIMS ID: 96-16861

Matrix: Soil

Date Sampled: 09/05/96 Date Received. 10/03/96

Data Release Authorized:

Reported: 10/08/96

Date extracted: 10/04/96

Date analyzed: 10/08/96

Sample Amount: 3.15 g-dry-wt

Final Ext Vol: 40 mL

> pH: 6.2

GPC Cleanup: No

Florisil Cleanup: No

Acid Cleanup: Yes

Sulfur Cleanup: No Conc/Dilution Factor: 1:5000

Percent Moisture: 37.3%

Reported in Total mg/kg Dry Weight

CAS Number	Analyte	Value
12674-11-2	Aroclor 1016	6,300 U
53469-21-9	Aroclor 1242	6,300 U
12672-29-6	Aroclor 1248	6,300 U
11097-69-1	Aroclor 1254	37,000
11096-82-5	Aroclor 1260	6,300 U

PCB-Aroclor Surrogate Recovery

Decachlorobiphenyl

Tetrachlorometaxylene

- Indicates an estimated value when that result is less than the J calculated detection limit. .
- Indicates a value above the linear range of the detector. E Dilution Required
- Indicates no value reported due to saturation of the detector. S
- Indicates the surrogate was diluted out. D
- Indicates compound was analyzed for, but not detected at the U given detection limit.
- Found in associated method blank В
- Indicates compound was not analyzed. NA
- Indicates no recovery due to interferences. NR
- Indicates a raised reporting limit due to matrix interferences. Y The analyte may be present at or below the listed concentration, but in the opinion of the analyst, confirmation was inadequate.



Sample No: ER-SE

Lab Sample ID: Q358A

QC Report No: Q358-Columbia Analytical Services

LIMS ID: 96-16861

Project: Monroe Auto Salvage

Matrix: Soil

Date Sampled:

09/05/96

Data Release Authorized:

Date Received:

10/03/96

Reported: 10/08/96

Date extracted: 10/04/96

GPC Cleanup: No

Date analyzed: 10/04/96

Florisil Cleanup: No Acid Cleanup: Yes

Sample Amount: 3.15 g-dry-wt

Sulfur Cleanup: No

Final Ext Vol: 40 mL Conc/Dilution Factor: 1:1 Percent Moisture: 37.3%

6.2 pH:

Reported in Total mg/kg Dry Weight

CAS Number	Analyte	Value
12674-11-2	Aroclor 1016	s
53469-21-9	Aroclor 1242	S
12672-29-6	Aroclor 1248	S
11097-69-1	Aroclor 1254	S
11096-82-5	Aroclor 1260	S

PCB-Aroclor Surrogate Recovery

115% Decachlorobiphenyl 27.5% Tetrachlorometaxylene

- Indicates an estimated value when that result is less than the J calculated detection limit.
- Indicates a value above the linear range of the detector. E Dilution Required
- Indicates no value reported due to saturation of the detector.
- Indicates the surrogate was diluted out. D
- Indicates compound was analyzed for, but not detected at the U given detection limit.
- Found in associated method blank
- Indicates compound was not analyzed. NA
- Indicates no recovery due to interferences. NR
- Indicates a raised reporting limit due to matrix interferences. Y The analyte may be present at or below the listed concentration, but in the opinion of the analyst, confirmation was inadequate.



Sample No: ER-SE DILUTION

Lab Sample ID: Q358ADIL

QC Report No: Q358-Columbia Analytical Services

Project: Monroe Auto Salvage

LIMS ID: 96-16861

Matrix: Soil

Date Sampled: 09/05/96 Date Receivedy

10/03/96

Data Release Authorized: Reported: 10/08/96

Date extracted: 10/04/96

Date analyzed: 10/07/96

Sample Amount: 3.15 g-dry-wt Final Ext Vol: 40 mL

6.2 pH:

GPC Cleanup: No Florisil Cleanup: No

Acid Cleanup: Yes Sulfur Cleanup: No

Conc/Dilution Factor: 1:1000 Percent Moisture: 37.3%

Reported in Total mg/kg Dry Weight

CAS Number	Analyte	 Value
	Aroclor 1016	1,300 U
12674-11-2 53469-21-9	Aroclor 1242	1,300 U
12672-29-6	Aroclor 1248	1,300 U
11097-69-1	Aroclor 1254	18,000
11096-82-5	Aroclor 1260	1,300 U

PCB-Aroclor Surrogate Recovery

Decachlorobiphenyl Tetrachlorometaxylene

- Indicates an estimated value when that result is less than the J calculated detection limit. .
- Indicates a value above the linear range of the detector. E Dilution Required
- Indicates no value reported due to saturation of the detector. S
- Indicates the surrogate was diluted out. D
- Indicates compound was analyzed for, but not detected at the U given detection limit.
- Found in associated method blank В
- Indicates compound was not analyzed. NA
- Indicates no recovery due to interferences. NR
- Indicates a raised reporting limit due to matrix interferences. Y The analyte may be present at or below the listed concentration, but in the opinion of the analyst, confirmation was inadequate.



Lab Sample ID: Q358

LIMS ID: 96-16861

Matrix: Soil

Data Release Authorized:

Reported: 10/08/96

QC Report No: Q358-Columbia Analytical Services

Project: Monroe Auto Salvage

LABORATORY CONTROL SAMPLE SPIKE RECOVERY

Date extracted: 10/04/96

SPIKE

SPIKE

CONSTITUENT

FOUND

ADDED

RECOVERY

LABORATORY CONTROL SAMPLE

Aroclor 1242

5760

8000

72.0%

Aroclor Surrogate Recoveries

Decachlorobiphenyl

72.5%

Tetrachlorometaxylene

72.0%

Values Reported in Total ug/kg Dry Weight



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October 1, 1996

Service Request No.: B9600656

John Virgin EMCON Northwest 18912 N Creek Parkway Suite 210 Bothell, WA 98011

Re: Monroe Auto Salvage/Project #40358-017.001(4)

Dear John:

Attached are the results of the sample(s) submitted to our laboratory on September 5, 1996. For your reference, these analyses have been assigned our service request number B9600656.

All analyses were performed consistent with our laboratory's quality assurance program. All results are intended to be considered in their entirety, and CAS is not responsible for use of less than the complete report. Results only apply to samples analyzed.

Please call if you have any questions.

Respectfully submitted,

Columbia Analytical Services, Inc.

Colin B. Elliott

Laboratory Manager

CBE/bdr

Page 1 of <u>5</u>

Analytical Report

Client:

EMCON

Project:

Monroe Auto Salvage

Sample Matrix:

Soil

Service Request: B9600656

Date Collected: 9/5/96

Date Received: 9/5/96

Date Extracted: 9/18/96

Date Analyzed: 9/26/96

Polychlorinated Biphenyls (PCBs) EPA Method 3540/8080 Units: mg/Kg (ppm) Dry Weight Basis

	Analyte: Method Reporting Limit:	Aroclor 1016 1	Aroclor 1221 1	Aroclor 1232 1	Aroclor 1242 1	Aroclor 1248 1	Aroclor 1254 1	Aroclor 1260 1
Sample Name	Lab Code							
ER-E	B9600656-01	ND						
ER-SE	B9600656-02	ND	ND	ND	ND	ND	22000(a)	ND
ER-S	B9600656-03	ND						
ER-W	B9600656-04	ND						
MAS-05N-Grid	B9600656-05	ND	ND	ND	ND	ND	1.1	ND
MAS-05S-Grid	B9600656-06	ND	ND	ND	ND	ND	2.0	ND
MAS-05E-Grid	B9600656-07	ND						
MAS-05W-Grid	B9600656-08	ND	ND	ND	ND	ND	2.6	ND
Method Blank	B9600656-SB	ND						

ND

None Detected

(a)

Result is from the analysis of a diluted sample, performed on 9/19/96. Dilution factor: 100

5A/102194

00656PHC.EC2 - PCB 10/1/96

Page No.: 2

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:

EMCON

Project:

Sample Matrix: Soil

Monroe Auto Salvage

Service Request: B9600656 Date Collected: 9/5/96

Date Received: 9/5/96 Date Extracted: 9/18/96

Date Analyzed: 9/26/96

Surrogate Recovery Summary Polychlorinated Biphenyls (PCBs) EPA Method 3540/8080

Sample Name	Lab Code	Percent Recovery Decachlorobiphenyl
ER-E	B9600656-01	97
ER-SE	B9600656-02	6(a)
ER-S	B9600656-03	96
ER-W	B9600656-04	99
MAS-05N-Grid	B9600656-05	96
MAS-05S-Grid	B9600656-06	104
MAS-05E-Grid	B9600656-07	97
MAS-05W-Grid	B9600656-08	100
Method Blank	B9600656-SB	99

CAS Acceptance Limits: 67-138

(a)

Not Applicable because of the sample matrix. The gas chromatogram showed target components that interfered with determination of the surrogate. The sample was not reanalyzed.

Approved By:	lil-	Ellert	Date:	10/1/98
TT				

SUR2/111594 00656PHC.EC2 - SUR 10/1/96 Page No.: 3

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:

EMCON

Project:

Monroe Auto Salvage

LCS Matrix:

Soil

Service Request: B9600656

Date Collected: 9/5/96

Date Received: 9/5/96
Date Extracted: 9/18/96

Date Analyzed: 9/19/96

Matrix Spike/Duplicate Matrix Spike Summary
Polychlorinated Biphenyls (PCBs)
EPA Method 3540/8080
Units: mg/Kg (ppm)

Dry Weight Basis

Sample Name:

ER-S

Lab Code:

B9600656-03

	•	Level	Sample	Sp MS	ike Result DMS	MS	DMS	CAS Acceptance Criteria	Relative Percent Difference
Analyte	MS	DMS	Result	MIS	DIVIS	1113	DIA	CITICITA	
Aroclor 1260	0.55	0.59	ND	0.53	0.54	96	92	62-154	5

Approved By:	lu-	Ellist	Date:	10/1/96	

DLCS/121594



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Services ***. 18912 North Creek Pkwy, Suite 118 • Bothell, WA 98011 • (206) 486-6983 • FAX (206) 486-7695													DATE 9/5/96 PAGE OF										
			ANALYSIS REQUEST																				
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12MCON CAS Bolhell				Results	Results					III. Data Validation Report										Condition:			
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