



Received
~11/23/2011
Rifle COGCC
Re Maralex Fed
26-3 well, NOAV
200317022

SP-Analytica, Inc.
12189 Pennsylvania Street
Thornton, CO 80241
Phone: 303-469-8868
Fax: 303-469-5254

10/13/2011

Maralex Resources, Inc.
864 20 Road
Unit A
Fruita, CO 81521
Attn: Jim Graves

Work Order #: B1109178
Date: 10/13/2011
Work ID: Garfield 2 Federal 26-3
Date Received: 9/29/2011
Proj #: None

Sample Identification

Lab Sample Number	Client Description	Lab Sample Number	Client Description
B1109178-01	Surface Casing Water		

Enclosed are the analytical results for the submitted sample(s). Please review the CASE NARRATIVE for a discussion of any data and/or quality control issues. Listings of data qualifiers, analytical codes, key dates, and QC relationships are provided at the end of the report.

Sincerely,

A handwritten signature in cursive script that reads "Carissa Seltrecht".

Carissa Seltrecht
Project Manager

"The Science of Analysis, The Art of Service"

Case Narrative

Analytica Environmental Laboratories, Inc.

Work Order: B1109178

Samples were prepared and analyzed according to EPA or equivalent methods outlined in the following references:

Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, EPA 600/4-82-057, July 1982.

Methods for the Determination of Metals in Environmental Samples, EPA/600/R-94/111, May 1994.

Pfaff, J. D., C. A. Brockhoff and J. W. O'Dell. 1994. The Determination of Inorganic Anions in Water by Ion Chromatography. Method 300.0A. U. S. Environmental Protection Agency. Environmental Monitoring Systems Lab.

Standard Methods for the Examination of Water and Wastewater, 20th Edition, 1998.

SAMPLE RECEIPT:

One (1) sample was received on 9/29/2011 at 10:15:00 AM at a temperature of 2.6°C at Analytica-Thornton. The sample was received in good condition and in order per chain of custody.

COMMENTS: The requested BTEX by 8260 was switched to method 602 due to the sample matrix.

REVIEW FOR COMPLIANCE WITH ANALYTICA QA PLAN

A summary of our review is shown below.

All analytical results contained in this report have been reviewed under Analytica's internal quality assurance and quality control program. Any deviations in quality control parameters for specific analyses are noted in the following text. A complete quality assurance report, including laboratory control, matrix spike, and sample duplicate recoveries, is kept on file in our office and is available upon request.

All method specifications were met for the following tests, unless otherwise noted:

Test Method: 200.7 - Metals by ICP - Total - Aqueous

Test Method: Inorganic Anions by Ion Chromatography - Anions by IC2 - Aqueous

Test Method: SM 2320B - Alkalinity - Aqueous

Test Method: 602 - Purgeable Aromatics by GC/PID - Unpreserved - Aqueous

INTERNAL STANDARD AREAS:

The samples shown below exhibited internal standard recoveries outside the control windows. This has been reproduced upon reanalysis, and is likely due to the sample matrix. The repression of the internal standard areas may indicate some reduced accuracy of quantification of associated targets.

Sample	LabID	Int Std	Area	CCVArea	LCL	UCL	FILE
Surface Casing 11100429.D	B1109178-01C	a,a,a-Trifluo	27071024	6643159	3321579.5	13286318	

The following is a subcontracted test and has been represented to us as having met criteria:

Test Method: Methane, ethane, ethene by hs - Diss. Methane RSK-175 - Aqueous

Detailed Analytical Report

Analytica Environmental Laboratories, Inc.

Workorder (SDG): B1109178

Project: Garfield 2 Federal 26-3

Client: Maralex Resources, Inc.

Client Project Number: None

Report Section: Client Sample Report

Client Sample Name: **Surface Casing Water**

Matrix: Aqueous

Collection Date: 9/28/2011 12:30:00PM

The following test was conducted by: Analytica - Thornton

Lab Sample Number: B1109178-01A

Prep Date: 10/7/2011

Analytical Method ID: 200.7 - Metals by ICP - Total

Prep Method ID: 200.2

Prep Batch Number: T111007008

Report Basis: As Received

Sample prep wt./vol: 10.00 ml

Analysis Date: 10/11/2011 6:24:21PM

Instrument: ICP_2

File Name: 101111

Dilution Factor: 1

Analyst Initials: TE

Prep Extract Vol: 50.00 ml

<u>Analyte</u>	<u>CASNo</u>	<u>Result</u>	<u>Flags</u>	<u>Units</u>	<u>PQL</u>	<u>MDL</u>	<u>run #:</u>
Calcium	7440-70-2	2,100		mg/L	0.50	0.063	1
Magnesium	7439-96-4	540		mg/L	0.50	0.058	
Potassium	7440-09-7	200		mg/L	5.0	1.5	
Sodium	7440-23-5	1,400		mg/L	15	0.14	

The following test was conducted by: Energy Laboratories

Lab Sample Number: B1109178-01D

Prep Date:

Analytical Method ID: Methane, ethane, ethene by hs - Diss. Methane RSK-175

Prep Method ID: RSK-175

Prep Batch Number: T111004010

Report Basis: As Received

Sample prep wt./vol:

Analysis Date:

Instrument:

File Name:

Dilution Factor:

Analyst Initials:

Prep Extract Vol: ml

<u>Analyte</u>	<u>CASNo</u>	<u>Result</u>	<u>Flags</u>	<u>Units</u>	<u>PQL</u>	<u>MDL</u>	<u>run #:</u>
Methane	74-82-8	See Sub Report					

The following test was conducted by: Analytica - Thornton

Lab Sample Number: B1109178-01C

Prep Date: 10/4/2011

Analytical Method ID: 602 - Purgeable Aromatics by GC/PID - Unpreserved

Prep Method ID:

Prep Batch Number: T111005022

Report Basis: As Received

Sample prep wt./vol: 5.00 ml

Analysis Date: 10/5/2011 3:11:00AM

Instrument: GC_B

File Name: 11100429.D

Dilution Factor: 50

Analyst Initials: TL

Prep Extract Vol: 5.00 ml

<u>Analyte</u>	<u>CASNo</u>	<u>Result</u>	<u>Flags</u>	<u>Units</u>	<u>PQL</u>	<u>MDL</u>	<u>run #:</u>
1,2-Dichlorobenzene	95-50-1	590		ug/L	150	27	3
1,3-Dichlorobenzene	541-73-1	ND		ug/L	150	37	
1,4-Dichlorobenzene	106-46-7	200		ug/L	150	45	
Benzene	71-43-2	890		ug/L	50	17	
Chlorobenzene	108-90-7	ND		ug/L	50	15	
Ethylbenzene	100-41-4	640		ug/L	75	23	
m&p Xylenes	108-38-3/106-	6,100		ug/L	100	9.9	
O-Xylene	95-47-6	2,800		ug/L	50	9.9	

Detailed Analytical Report

Analytica Environmental Laboratories, Inc.

Workorder (SDG): B1109178

Project: Garfield 2 Federal 26-3

Client: Maralex Resources, Inc.

Client Project Number: None

Report Section: Client Sample Report

Client Sample Name: **Surface Casing Water**

Matrix: Aqueous Collection Date: 9/28/2011 12:30:00PM

Lab Sample Number: B1109178-01C Analysis Date: 10/5/2011 3:11:00AM
 Prep Date: 10/4/2011 Instrument: GC_B
 Analytical Method ID: 602 - Purgeable Aromatics by GC/PID - Unpreserved File Name: 11100429.D
 Prep Method ID: Dilution Factor: 50
 Prep Batch Number: T111005022
 Report Basis: As Received Analyst Initials: TL
 Sample prep wt./vol: 5.00 ml Prep Extract Vol: 5.00 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	run #:				
tert-Butyl Methyl Ether	1634-04-4	ND		ug/L	100	33	3				
Toluene	108-88-3	3,900		ug/L	60	18					
Xylenes, Total	1330-20-7	8,900		ug/L	150	41					
Surrogate	CASNo	Result	Flags	Units	PQL	MDL	Spike	% Recov	LCL	UCL	run #:
I,4-Difluorobenzene	540-36-3	1,300		ug/L	50	5.0	1,400	96.4	80	120	3
p-Bromofluorobenzene	460-00-4	1,200		ug/L	25	6.0	1,400	86.7	80	120	

The following test was conducted by: Analytica - Thornton

Lab Sample Number: B1109178-01B Analysis Date: 10/4/2011 12:00:00PM
 Prep Date: 10/4/2011 Instrument: Titrametric
 Analytical Method ID: SM 2320B - Alkalinity File Name:
 Prep Method ID: 2320B Dilution Factor: 1
 Prep Batch Number: T111005007
 Report Basis: As Received Analyst Initials: KG
 Sample prep wt./vol: 10.00 ml Prep Extract Vol: 10.00 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	run #:			
Alkalinity, Total		2,500		mg/L	7.0	1.2	1			
Bicarbonate		2,500		mg/L	5.0	1.5				

The following test was conducted by: Analytica - Thornton

Lab Sample Number: B1109178-01B Analysis Date: 9/29/2011 8:21:00PM
 Prep Date: 9/30/2011 Instrument: IC_2
 Analytical Method ID: Inorganic Anions by Ion Chromatography - Anions by IC2 File Name: 20.0000.XLS
 Prep Method ID: 300.0 Dilution Factor: 2
 Prep Batch Number: T111004004
 Report Basis: As Received Analyst Initials: TE
 Sample prep wt./vol: 4.00 ml Prep Extract Vol: 4.00 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	run #:			
Fluoride		11.6		mg/L	0.20	0.0044	2			
Nitrate as N		ND		mg/L	0.20	0.019				
Sulfate		1.29		mg/L	1.0	0.047				

Detailed Analytical Report

Analytica Environmental Laboratories, Inc.

Workorder (SDG): B1109178

Project: Garfield 2 Federal 26-3

Client: Maralex Resources, Inc.

Client Project Number: None

Report Section: Client Sample Report

Client Sample Name: **Surface Casing Water**

Matrix: Aqueous Collection Date: 9/28/2011 12:30:00PM

Lab Sample Number: B1109178-01B Analysis Date: 9/30/2011 6:04:00PM

Prep Date: 9/30/2011 Instrument: IC_2

Analytical Method ID: Inorganic Anions by Ion Chromatography - Anions by IC2 File Name: 22.0000.XLS

Prep Method ID: 300.0 Dilution Factor: 100

Prep Batch Number: T111004004 Analyst Initials: JH

Report Basis: As Received Prep Extract Vol: 4.00 ml

Sample prep wt./vol: 4.00 ml

<u>Analyte</u>	<u>CASNo</u>	<u>Result</u>	<u>Flags</u>	<u>Units</u>	<u>PQL</u>	<u>MDL</u>	<u>run #:</u>
Chloride		1,270		mg/L	50	7.1	1

Detailed Analytical Report

Analytica Environmental Laboratories, Inc.

Workorder (SDG): B1109178
Project: **Garfield 2 Federal 26-3**
Client: **Maralex Resources, Inc.**
Client Project Number: **None**

QC BATCH ASSOCIATIONS - BY METHOD BLANK

Lab Project ID: 131,149 Lab Project Number: B1109178

Prep Date: 9/30/2011

Lab Method Blank Id: T111004004-MB
Prep Batch ID: T111004004
Method: Inorganic Anions by Ion Chromatography - Anions by IC2

This Method blank and sample preparation batch are associated with the following samples, spikes, and duplicates:

<u>SampleNum</u>	<u>ClientSampleName</u>	<u>DataFile</u>	<u>AnalysisDate</u>
T111004004-LCS	LCS	11.0000.XLS	9/30/2011 3:26:00PM
B1109182-01H	Batch QC	14.0000.XLS	9/30/2011 4:09:00PM
B1109182-01H-DUP	DUP	15.0000.XLS	9/30/2011 4:23:00PM
B1109182-01H-MS	MS	16.0000.XLS	9/30/2011 4:38:00PM
B1109182-01H-MSD	MSD	17.0000.XLS	9/30/2011 4:52:00PM
B1109178-01B	Surface Casing Water	20.0000.XLS	9/29/2011 8:21:00PM
B1109178-01B	Surface Casing Water	22.0000.XLS	9/30/2011 6:04:00PM

Prep Date: 10/4/2011

Lab Method Blank Id: T111005007-MB
Prep Batch ID: T111005007
Method: SM 2320B - Alkalinity

This Method blank and sample preparation batch are associated with the following samples, spikes, and duplicates:

<u>SampleNum</u>	<u>ClientSampleName</u>	<u>DataFile</u>	<u>AnalysisDate</u>
B1109178-01B	Surface Casing Water		10/4/2011 12:00:00PM
T111005007-LCS	LCS		10/4/2011 12:00:00PM
B1109178-01B-DUP	DUP		10/4/2011 12:00:00PM

Prep Date: 10/4/2011

Lab Method Blank Id: T111005022-MB
Prep Batch ID: T111005022
Method: 602 - Purgeable Aromatics by GC/PID - Unpreserved

This Method blank and sample preparation batch are associated with the following samples, spikes, and duplicates:

<u>SampleNum</u>	<u>ClientSampleName</u>	<u>DataFile</u>	<u>AnalysisDate</u>
T111005022-LCS	LCS	11100425.D	10/5/2011 12:58:00AM
B1109178-01C	Surface Casing Water	11100429.D	10/5/2011 3:11:00AM
B1109182-05G	Batch QC	11100438.D	10/5/2011 8:07:00AM
B1109182-05G-MS	MS	11100439.D	10/5/2011 8:40:00AM
B1109182-05G-MSD	MSD	11100440.D	10/5/2011 9:13:00AM

Detailed Analytical Report

Analytica Environmental Laboratories, Inc.

Workorder (SDG): B1109178

Project: **Garfield 2 Federal 26-3**

Client: **Maralex Resources, Inc.**

Client Project Number: **None**

QC BATCH ASSOCIATIONS - BY METHOD BLANK

Lab Project ID: 131,149 Lab Project Number: B1109178

Prep Date: 10/7/2011

Lab Method Blank Id: T111007008-MB

Prep Batch ID: T111007008

Method: 200. 7 - Metals by ICP - Total

This Method blank and sample preparation batch are associated with the following samples, spikes, and duplicates:

<u>SampleNum</u>	<u>ClientSampleName</u>	<u>DataFile</u>	<u>AnalysisDate</u>
B1109178-01A	Surface Casing Water	101111	10/11/2011 6:24:21PM
B1109179-03A	Batch QC	101111	10/11/2011 4:52:52PM
T111007008-LCS	LCS	101111	10/11/2011 4:42:09PM
B1109179-03A-DUP	DUP	101111	10/11/2011 4:58:14PM
B1109179-03A-MS	MS	101111	10/11/2011 5:45:17PM
B1109179-03A-MSD	MSD	101111	10/11/2011 5:50:39PM

Detailed Analytical Report

Analytica Environmental Laboratories, Inc.

Workorder (SDG): B1109178

Project: Garfield 2 Federal 26-3

Client: Maralex Resources, Inc.

Client Project Number: None

DATA FLAGS AND DEFINITIONS

The PQL is the Method Quantitation Limit as defined by USACE.

Reporting Limit: Limit below which results are shown as "ND". This may be the PQL, MDL, or a value between. See the report conventions below.

Result Field:

ND = Not Detected at or above the Reporting Limit

NA = Analyte not applicable (see Case Narrative for discussion)

Qualifier Fields:

LOW = Recovery is below Lower Control Limit

HIGH = Recovery, RPD, or other parameter is above Upper Control Limit

E = Reported concentration is above the instrument calibration upper range

Organic Analysis Flags:

B = Analyte was detected in the laboratory method blank

J = Analyte was detected above MDL or Reporting Limit but below the Quant Limit (PQL)

Inorganic Analysis Flags:

J = Analyte was detected above the Reporting Limit but below the Quant Limit (PQL)

W = Post digestion spike did not meet criteria

S = Reported value determined by the Method of Standard Additions (MSA)

Several ways of defining the limit of detection and quantitation are prevalent in the laboratory industry and may appear in Analytica reports. These include the following:

MRL = "minimum reporting level", from the EPA Safe Drinking Water program (SDW)

PQL = "practical quantitation limit", from SW-846

EQL = "estimated quantitation limit", from SW-846

LOQ = "limit of quantitation", from a number of authoritative sources

In Analytica's work, all of these terms have the same meaning, equivalent to the EPA definition of the MRL. This reporting level is supported by a satisfactory calibration data point which is at that level or lower, and also is supported by a method detection limit (MDL) determined by the procedure in 40CFR. The MDL is lower than the MRL and represents an estimate of the level where positive detections have a 99% probability of being real, but where quantitation accuracy is unknown.

The MRL as defined by Analytica is the lowest demonstrated point of known quantitation accuracy.

The MRL should not be confused with the MCL, which is the EPA-defined "maximum contaminant level" allowed for certain regulated targets under specific regulations, such as the National Primary Drinking Water Regulations. Normally, the MRL is set at a level which is much lower than the MCL in order to ensure that levels are well below those limits. Not all target analytes have MCL levels established.

Other Flags may be applied. See Case Narrative for Description

Detailed Analytical Report

Analytica Environmental Laboratories, Inc.

Workorder (SDG): B1109178

Project: Garfield 2 Federal 26-3

Client: Maralex Resources, Inc.

Client Project Number: None

REPORTING CONVENTIONS FOR THIS REPORT

B1109178

<u>TestPkgName</u>	<u>Basis</u>	<u># Sig Figs</u>	<u>Reporting Limit</u>
200.7/200.7 (Aqueous) - Total	As Received	2	Report to PQL
2320B/2320B (Aqueous) - Alkalinity	As Received	2	Report to PQL
300.0/300.0 (Aqueous) - Anions by IC2	As Received	3	Report to PQL
602 (Aqueous) - Unpreserved	As Received	2	Report to PQL
RSK-175/RSK-175 (Aqueous) - Diss. Methane RSK-175	As Received	2	Report to MDL, J qual below PQL



ANALYTICAL SUMMARY REPORT

October 03, 2011

Analytica Group Inc
12189 Pennsylvania St
Thornton, CO 80241

Workorder No.: B11092882

Project Name: B1109178

Energy Laboratories Inc Billings MT received the following 1 sample for Analytica Group Inc on 9/30/2011 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B11092882-001	Surface Casing Water (B1109178-1D)	09/28/11 12:30	09/30/11	Aqueous	Headspace Gas Analysis

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 S 27th St., Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Analytica Group Inc
Project: B1109178
Lab ID: B11092882-001
Client Sample ID Surface Casing Water (B1109178-1D)

Report Date: 10/03/11
Collection Date: 09/28/11 12:30
Date Received: 09/30/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
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ORGANIC CHARACTERISTICS

Methane	6.3	mg/L		0.43		SW8015M	10/03/11 07:01 / bdw
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- Sample prep and analysis for dissolved gas in water was done using RSK-SOP-175 by Kampbell et al.

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Analytica Group Inc

Report Date: 10/03/11

Project: B1109178

Work Order: B11092882

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8015M										Analytical Run: R173499
Sample ID: CCV		Continuing Calibration Verification Standard								10/03/11 05:28
Methane		950	ppm	2.0	95	85	115			
Sample ID: CCV		Continuing Calibration Verification Standard								10/03/11 09:47
Methane		960	ppm	2.0	96	85	115			
Method: SW8015M										Batch: R173499
Sample ID: LCS		Laboratory Control Sample								10/03/11 06:14
Methane		110	ppm	2.0	111	85	115			Run: FID-HEADSPACE_111003A
Sample ID: MBLK		Method Blank								10/03/11 06:28
Methane		ND	ppm	2.0						Run: FID-HEADSPACE_111003A
Sample ID: B11092882-001ADUP		Sample Duplicate								10/03/11 08:58
Methane		6.15	mg/L	0.43				2.4	20	Run: FID-HEADSPACE_111003A

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

Workorder Receipt Checklist



B11092882

Login completed by: Leslie S. Cadreau

Date Received: 9/30/2011

Reviewed by: BL2000\jlortz

Received by: dts

Reviewed Date: 9/30/2011

Carrier FedEx
name:

- | | | | |
|---|---|-----------------------------|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time?
(Exclude analyses that are considered field parameters
such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.) | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature: | 4.6°C | | |
| Water - VOA vials have zero headspace? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input checked="" type="checkbox"/> |

Contact and Corrective Action Comments:

None



Cooler Receipt Form

Client: Maralex Resources, Inc.
Project: Garfield 2 Federal 26-3

Client Code: 501467

Order #: B1109178

Cooler ID: 1

A. Preliminary Examination Phase:

Date cooler opened: 9/29/2011
Cooler opened by: gp

Signature: GP

- 1. Was airbill Attached? Yes Airbill #: 872842457503 Carrier Name: FedEx
- 2. Custody Seals? Yes How many? 1 Location: Cooler Seal Name: DCH
- 3. Seals intact? Yes
- 4. COC Attached? Yes Properly Completed? Yes Signed by AEL employee? Yes
- 5. Project Identification from custody paper: Garfield 2 Federal 26-3
- 6. Preservative: BlueGel Temperature: 2.6 deg. C

Designated person initial here to acknowledge receipt: GP Date: 9/29/11

COMMENTS:

B. Log-In Phase: Samples Log-in Date: 9/29/2011 Log-in By: gp

- 1. Packing Type: Green Foam
- 2. Were samples in separate bags? N/A
- 3. Were containers intact? Yes Labels agree with COC? Yes
- 4. Number of bottles received: 7 Number of samples received: 1
- 5. Correct containers used? Yes Correct preservatives added? Yes
- 6. Sufficient sample volume? Yes
- 7. Bubbles in VOA samples? No
- 8. Was Project manager called and status discussed? Yes
- 9. Was anyone called? Yes Who was called? _____ By whom? _____ Date: _____

COMMENTS: