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CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES QUALITY ASSURANCE SURVEILLANCE REPORT

01402. *MRC*

PROJECT NO.: 20 01420.171 *9/18/03*

REPORT NO.: 2002-21

PAGE 1 OF 18

SURVEILLANCE SCOPE: Monitoring surveillance activities by Institute Quality Systems personnel of tests for Trace Metal Analysis by Atomic Absorption and Detection of Inorganic Anions by Ion Chromatography, in Division 01.

REFERENCE DOCUMENTS: Quality Assurance Procedure 004, Surveillance Control, and attached surveillance reports.

STARTING DATE: August 13, 2002

ENDING DATE: August 13, 2002

QA REPRESENTATIVE: Mark R. Ehnstrom *MRC*

PERSONS CONDUCTING TEST/EXAM/ACTIVITY: Charlie Butcher, Division 01 Staff

SATISFACTORY FINDINGS:

This surveillance is being issued to incorporate 17 surveillances performed in Division 01 since the beginning of the fiscal year 2002. The surveillances were performed by Mr. Charles Butcher from the Institute Quality Systems staff at the request of the Director of CNWRA QA, Mr. Bruce Mabrito. Since Mr. Butcher reports to the Manager of Institute QA, the surveillance reports have been issued through the Southwest Research Institute quality system. Copies of the surveillances have been sent to Mr. Mabrito and by way of this surveillance will now be incorporated into CNWRA quality records. The surveillances performed documented Division 01 staff performing the required tests in accordance with established test methods and laboratory protocol, did not identify any unsatisfactory findings and noted the use of calibrated equipment traceable to the National Institute of Standards and Technology.

UNSATISFACTORY FINDINGS: None

NONCONFORMANCE REPORT NO.: N/A

Corrective Action Request No.: N/A

ATTACHMENTS: 17 surveillances performed by Charles Butcher.

RECOMMENDATIONS/ACTIONS:

Indoctrinate and train Mr. Butcher into the CNWRA quality and surveillance programs so he can use CNWRA forms and obtain CNWRA surveillance numbers and directly report results to the Director of CNWRA QA.

APPROVED: *Bruce Mabrito*
CENTER DIRECTOR OF QUALITY ASSURANCE

DATE: 8/14/2002

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ORIGINATOR
PRINCIPAL ENGINEER:
ALL ELEMENT MANAGERS
B. Sagar
H. Garcia, B. Mabrito, M. Ehnstrom, C. Butcher



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INSTITUTE QUALITY ASSURANCE SURVEILLANCE REPORT

Project No.: 20-01402

Report No.: 2001-SR-0234

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Surveillance Scope: Monitor the Tests for Trace Metal Analysis by Atomic Adsorption and Detection of Inorganic Anions by Ion Chromatography, in Division 01. The client is NRC High Level Waste Program. This is a QA Nuclear surveillance.

Reference Documents: Work Order 121118, TAP 01-406-037 Dissolution of Acid Soluble Materials for Metals Analysis, TAP 01-0406-038 Inductively Coupled Plasma/Atomic Emission Spectrometric Method for Trace Elemental Analysis, and SPQP Rev 2.

Starting Date: 2001-10-17

Ending Date: 2001-10-24

Institute QA Representative: Charles S. Butcher ^{CSB}

Person(s) Conducting Test/Exam/Procedure: M.Madewell, A.Albarran

Satisfactory Findings: A work request was provided to Division 01 for work performed. The work order was logged in by receiving and labeled with PO number, QA Nuclear requirements, project number, tests required, and test revisions. The sample was labeled with PO number, QA label, ID number, and work order number. The analysts training records were on file as required. Copies of the work order, methods, and SPQP were available. The instruments were calibrated with NIST traceable standards and the sample run. Data was recorded, signed, and reviewed by project personal prior to transmittal to the client.

Unsatisfactory Findings: None

Nonconformance Report No.: N/A

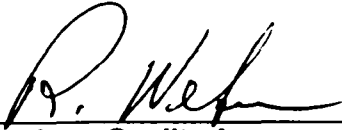
CAR/SCAR No.: N/A

Attachments: None

Recommendations/Actions: None

Equipment Calibration: All equipment was verified for calibration prior to running tests. All standards were NIST traceable.

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cc: CSB:
PM-Y. Pan (20)

Approved: 
Institute Quality Assurance

Date: 10/31/01





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INSTITUTE QUALITY ASSURANCE SURVEILLANCE REPORT

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|------------------------------|---------------------------------|--------------------|
| Project No.: 20-01402 | Report No.: 2001-SR-0246 | Page 1 of 1 |
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Surveillance Scope: Monitor the Tests for Trace Metal Analysis by Atomic Adsorption and Detection of Inorganic Anions by Ion Chromatography, in Division 01. The client is NRC High Level Waste Program. This is a QA Nuclear surveillance.

Reference Documents: Work Order 21117, TAP 01-0406-038 Inductively Coupled Plasma/Atomic Emission Spectrometric Method for Trace Elemental Analysis, and SPQP Rev 4.

Starting Date: 2001-10-18 *CSB* **Ending Date:** 2001-11-07 *CSB*

Institute QA Representative: Charles S. Butcher

Person(s) Conducting Test/Exam/Procedure: M. Madewell

Satisfactory Findings: A work request was provided to Division 01 for work performed. The work order was logged in by receiving and labeled with PO number, QA Nuclear requirements, project number, tests required, and test revisions. The sample was labeled with PO number, QA label, ID number, and work order number. The analysts training records were on file as required. Copies of the work order, methods, and SPQP were available. The instruments were calibrated with NIST traceable standards and the sample run. Data was recorded, signed, and reviewed by project personal prior to transmittal to the client.

Unsatisfactory Findings: None

Nonconformance Report No.: N/A **CAR/SCAR No.:** N/A

Attachments: None

Recommendations/Actions: None *Du/q/oj*

Equipment Calibration: All equipment was verified for calibration prior to running tests. All standards were NIST traceable.

Approved: *[Signature]*
 Institute Quality Assurance

Date: 11/9/01

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 PM-Brossia (20)

[Signature]



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INSTITUTE QUALITY ASSURANCE SURVEILLANCE REPORT

Project No.: 20-04810

Report No.: 2001-SR-0264

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Surveillance Scope: Monitor the Tests for Trace Metal Analysis by Atomic Adsorption and Detection of Inorganic Anions by Ion Chromatography, in Division 01. The client is NRC High Level Waste Program. This is a QA Nuclear surveillance.

Reference Documents: Work Order 21207, TAP 01-0406-038 Inductively Coupled Plasma/Atomic Emission Spectrometric Method for Trace Elemental Analysis, and SPQP CH/AN Rev 3.

Starting Date: 2001-11-12

Ending Date: 2001-11-27

Institute QA Representative: Charles S. Butcher ^{CSB}

Person(s) Conducting Test/Exam/Procedure: A. Albarron

Satisfactory Findings: A work request was provided to Division 01 for work performed. The work order was logged in by receiving and labeled with PO number, QA Nuclear requirements, project number, tests required, and test revisions. The sample was labeled with PO number, QA label, ID number, and work order number. The analysts training records were on file as required. Copies of the work order, methods, and SPQP were available. The instruments were calibrated with NIST traceable standards and the sample run. Data was recorded, signed, and reviewed by project personal prior to transmittal to the client.

Unsatisfactory Findings: None

Nonconformance Report No.: N/A

CAR/SCAR No.: N/A

Attachments: None

Recommendations/Actions: None

Equipment Calibration: All equipment was verified for calibration prior to running tests. All standards were NIST traceable.

Approved:


Institute Quality Assurance

Date:

11/29/01

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PM-S. Brossia(20)

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INSTITUTE QUALITY ASSURANCE SURVEILLANCE REPORT

Project No.: 20-01402

Report No.: 2001-SR-0265

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Surveillance Scope: Monitor the Tests for Trace Metal Analysis by Atomic Adsorption and Detection of Inorganic Anions by Ion Chromatography and Analysis for Chlorides, in Division 01. The client is NRC High Level Waste Program. This is a QA Nuclear surveillance.

Reference Documents: Work Order 21205, TAP 01-0406-038 Inductively Coupled Plasma/Atomic Emission Spectrometric Method for Trace Elemental Analysis, TAP 01-0406-042 Analysis for Chloride, and SPQP CH/AN Rev 3.

Starting Date: 2001-11-12

Ending Date: 2001-11-27

Institute QA Representative: Charles S. Butcher ^{CSB}

Person(s) Conducting Test/Exam/Procedure: A. Albarron, M. Madewell

Satisfactory Findings: A work request was provided to Division 01 for work performed. The work order was logged in by receiving and labeled with PO number, QA Nuclear requirements, project number, tests required, and test revisions. The sample was labeled with PO number, QA label, ID number, and work order number. The analysts training records were on file as required. Copies of the work order, methods, and SPQP were available. The instruments were calibrated with NIST traceable standards and the sample run. Data was recorded, signed, and reviewed by project personal prior to transmittal to the client.

Unsatisfactory Findings: None

Nonconformance Report No.: N/A

CAR/SCAR No.: N/A

Attachments: None

Recommendations/Actions: None

Equipment Calibration: All equipment was verified for calibration prior to running tests. All standards were NIST traceable.

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PM-Y. Pan(20)

Approved:

R. Webb
Institute Quality Assurance

Date:

11/29/01

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INSTITUTE QUALITY ASSURANCE SURVEILLANCE REPORT

Project No.: 20-01402

Report No.: 2001-SR-0269

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Surveillance Scope: Monitor the Tests for Trace Metal Analysis by Atomic Adsorption and Detection of Inorganic Anions by Ion Chromatography and Analysis for Chlorides, in Division 01. The client is NRC High Level Waste Program. This is a QA Nuclear surveillance.

Reference Documents: Work Order 21344, TAP 01-0406-038 Inductively Coupled Plasma/Atomic Emission Spectrometric Method for Trace Elemental Analysis, TAP 01-0406-042 Analysis for Chloride, and SPQP CH/AN Rev 3.

Starting Date: 2001-11-30

Ending Date: 2001-12-13

Institute QA Representative: Charles S. Butcher ^{CSB}

Person(s) Conducting Test/Exam/Procedure: A. Albarron, M. Madewell

Satisfactory Findings: A work request was provided to Division 01 for work performed. The work order was logged in by receiving and labeled with PO number, QA Nuclear requirements, project number, tests required, and test revisions. The sample was labeled with PO number, QA label, ID number, and work order number. The analysts training records were on file as required. Copies of the work order, methods, and SPQP were available. The instruments were calibrated with NIST traceable standards and the sample run. Data was recorded, signed, and reviewed by project personal prior to transmittal to the client.

Unsatisfactory Findings: None

Nonconformance Report No.: N/A

CAR/SCAR No.: N/A

Attachments: None

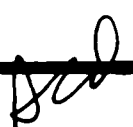
Recommendations/Actions: None

Equipment Calibration: All equipment was verified for calibration prior to running tests. All standards were NIST traceable.

Approved: 
Institute Quality Assurance

Date: 12/13/01

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PM-Y. Pan(20)





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INSTITUTE QUALITY ASSURANCE SURVEILLANCE REPORT

Project No.: 20-01402

Report No.: 2002-SR-0009

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Surveillance Scope: Monitor the Tests for Trace Metal Analysis by Atomic Adsorption and Detection of Inorganic Anions by Ion Chromatography, in Division 01. The client is NRC High Level Waste Program. This is a QA Nuclear surveillance.

Reference Documents: Work Order 21539, TAP 01-406-042 EPA 400 Analysis of Chlorides, TAP 01-0406-038 Inductively Coupled Plasma/Atomic Emission Spectrometric Method for Trace Elemental Analysis, and SPQP CH/AN Rev 2.

Starting Date: 2002-01-03

Ending Date: 2002-01-09

Institute QA Representative: ^{CSB} Charles S. Butcher

Person(s) Conducting Test/Exam/Procedure: M. Madewell, A. Albarran

Satisfactory Findings: A work request was provided to Division 01 for work performed. The work order was logged in by receiving and labeled with PO number, QA Nuclear requirements, project number, tests required, and test revisions. The sample was labeled with PO number, QA label, ID number, and work order number. The analysts training records were on file as required. Copies of the work order, methods, and SPQP were available. The instruments were calibrated with NIST traceable standards and the sample run. Data was recorded, signed, and reviewed by project personal prior to transmittal to the client.

Unsatisfactory Findings: None

Nonconformance Report No.: N/A

CAR/SCAR No.: N/A

Attachments: None

Recommendations/Actions: None

Equipment Calibration: All equipment was verified for calibration prior to running tests. All standards were NIST traceable.

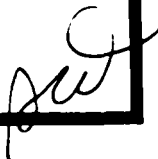
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PM-Y. Pan(20)

Approved:


Institute Quality Assurance

Date:

1/9/02





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INSTITUTE QUALITY ASSURANCE SURVEILLANCE REPORT

Project No.: 20-01402

Report No.: 2002-SR-0014

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Surveillance Scope: Monitor the Tests for Trace Metal Analysis by Atomic Adsorption and Detection of Inorganic Anions by Ion Chromatography and Analysis for Chlorides, in Division 01. The client is NRC High Level Waste Program. This is a QA Nuclear surveillance.

Reference Documents: Work Order 22664, TAP 01-0406-038 Inductively Coupled Plasma/Atomic Emission Spectrometric Method for Trace Elemental Analysis, TAP 01-0406-042 Analysis for Chloride, and SPQP CH/AN Rev 3.

Starting Date: 2002-01-14

Ending Date: 2002-01-22

Institute QA Representative: Charles S. ^{CSB}Butcher

Person(s) Conducting Test/Exam/Procedure: A. Albarron, M. Madewell

Satisfactory Findings: A work request was provided to Division 01 for work performed. The work order was logged in by receiving and labeled with PO number, QA Nuclear requirements, project number, tests required, and test revisions. The sample was labeled with PO number, QA label, ID number, and work order number. The analysts training records were on file as required. Copies of the work order, methods, and SPQP were available. The instruments were calibrated with NIST traceable standards and the sample run. Data was recorded, signed, and reviewed by project personal prior to transmittal to the client.

Unsatisfactory Findings: None

Nonconformance Report No.: N/A

CAR/SCAR No.: N/A

Attachments: None

Recommendations/Actions: None

Equipment Calibration: All equipment was verified for calibration prior to running tests. All standards were NIST traceable.

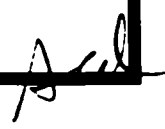
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PM-Y. Pan(20)

Approved:


Institute Quality Assurance

Date:

1/24/02





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INSTITUTE QUALITY ASSURANCE SURVEILLANCE REPORT

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| Project No.: 20-R9211 | Report No.: 2002-SR-0019 | Page 1 of 1 |
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Surveillance Scope: Monitor the Tests for Trace Metal Analysis by Atomic Adsorption and Detection of Inorganic Anions by Ion Chromatography and ICP-MS, in Division 01. The client is NRC High Level Waste Program. This is a QA Nuclear surveillance.

Reference Documents: Work Order 21572, TAP 01-0406-038 Inductively Coupled Plasma/Atomic Emission Spectrometric Method for Trace Elemental Analysis, TAP 01-0406-038 ICP-AE Spectrophotometry for Trace Elemental Analysis and SPQP CH/AN Rev 3.

Starting Date: 2002-01-18 **Ending Date:** 2002-01-25

Institute QA Representative: ^{CSB} Charles S. Butcher

Person(s) Conducting Test/Exam/Procedure: P. Mueller, M. Madewell

Satisfactory Findings: A work request was provided to Division 01 for work performed. The work order was logged in by receiving and labeled with PO number, QA Nuclear requirements, project number, tests required, and test revisions. The sample was labeled with PO number, QA label, ID number, and work order number. The analysts training records were on file as required. Copies of the work order, methods, and SPQP were available. The instruments were calibrated with NIST traceable standards and the sample run. Data was recorded, signed, and reviewed by project personal prior to transmittal to the client.


Unsatisfactory Findings: None

Nonconformance Report No.:N/A **CAR/SCAR No.:**N/A

Attachments: None

Recommendations/Actions: None

Equipment Calibration: All equipment was verified for calibration proir to running tests. All standards were NIST traceable.

Approved: 
Institute Quality Assurance

Date: 1/29/02

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 PM-PBeretti(20)

CSB



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INSTITUTE QUALITY ASSURANCE SURVEILLANCE REPORT

Project No.: 20-01402

Report No.: 2002-SR-0058

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Surveillance Scope: Monitor the Tests for Trace Metal Analysis by Atomic Adsorption and Detection of Inorganic Anions by Ion Chromatography and Analysis for Chlorides, in Division 01. The client is NRC High Level Waste Program. This is a QA Nuclear surveillance.

Reference Documents: Work Order 21943, TAP 01-0406-038 Inductively Coupled Plasma/Atomic Emission Spectrometric Method for Trace Elemental Analysis, TAP 01-0406-042 Analysis for Chloride, and SPQP CH/AN Rev 3.

Starting Date: 2002-02-27

Ending Date: 2002-03-06

Institute QA Representative: Charles S. Butcher ^{CSB}

Person(s) Conducting Test/Exam/Procedure: A. Albarron, M. Madewell

Satisfactory Findings: A work request was provided to Division 01 for work performed. The work order was logged in by receiving and labeled with PO number, QA Nuclear requirements, project number, tests required, and test revisions. The sample was labeled with PO number, QA label, ID number, and work order number. The analysts training records were on file as required. Copies of the work order, methods, and SPQP were available. The instruments were calibrated with NIST traceable standards and the sample run. Data was recorded, signed, and reviewed by project personal prior to transmittal to the client.

Unsatisfactory Findings: None

Nonconformance Report No.: N/A

CAR/SCAR No.: N/A

Attachments: None

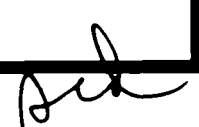
Recommendations/Actions: None

Equipment Calibration: All equipment was verified for calibration prior to running tests. All standards were NIST traceable.

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PM-Y. Pan(20)
B. Mabrito (20)

Approved: 
Institute Quality Assurance

Date: 3/6/02





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INSTITUTE QUALITY ASSURANCE SURVEILLANCE REPORT

Project No.: 20-R9211

Report No.: 2002-SR-0137

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Surveillance Scope: Monitor the Tests for Trace Metal Analysis by Atomic Adsorption in Division 01. The client is NRC High Level Waste Program. This is a QA Nuclear surveillance.

Reference Documents: Work Orders 22295, 22264, 22379, 22306, TAP 01-0406-038 Inductively Coupled Plasma/Atomic Emission Spectrometric Method for Trace Elemental Analysis, and SPQP CH/AN Rev 3.

Starting Date: 2002-05-31

Ending Date: 2002-06-17

Institute QA Representative: Charles S. Butcher

Person(s) Conducting Test/Exam/Procedure: T. O'Brien, A. Albarran, J. Wills, J. Ranger

Satisfactory Findings: A work request was provided to Division 01 for work performed. The work orders were logged in by receiving and labeled with PO number, QA Nuclear requirements, project number, tests required, and test revisions. The samples were labeled with, QA label, ID number, and work order number. The analysts training records were on file as required. Copies of the work order, methods, and SPQP were available. The instruments were calibrated with NIST traceable standards and the sample run. Data was recorded, signed, and reviewed by project personal prior to transmittal to the client.

Unsatisfactory Findings: None

Nonconformance Report No.: N/A

CAR/SCAR No.: N/A

Attachments: None

Recommendations/Actions: None

Equipment Calibration: Equipment calibration was verified prior to running samples. All standards were NIST traceable.

Approved: 
Institute Quality Assurance

Date: 6/25/02

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PM-B. Werlong(20)
B. Mabnto(20)

*Accd
6/26/02*



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INSTITUTE QUALITY ASSURANCE SURVEILLANCE REPORT

Project No.: 20-01402

Report No.: 2002-SR-0138

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Surveillance Scope: Monitor the Tests for Trace Metal Analysis by Atomic Adsorption and Detection of Inorganic Anions by Ion Chromatography, in Division 01. The client is NRC High Level Waste Program. This is a QA Nuclear surveillance.

Reference Documents: Work Order 22646, TAP 01-406-037 Dissolution of Acid Soluble Materials for Metals Analysis, TAP 01-0406-038 Inductively Coupled Plasma/Atomic Emission Spectrometric Method for Trace Elemental Analysis, EPA Method 300, and SPQP Rev 2.

Starting Date: 2002-05-31

Ending Date: 2002-06-21

Institute QA Representative: Charles S. Butcher

Person(s) Conducting Test/Exam/Procedure: A. Albarran, T. O'Bruan, A. Strawn

Satisfactory Findings: A work request was provided to Division 01 for work performed. The work order was logged in by receiving and labeled with PO number, QA Nuclear requirements, project number, tests required, and test revisions. The sample was labeled with PO number, QA label, ID number, and work order number. The analysts training records were on file as required. Copies of the work order, methods, and SPQP were available. The instruments were calibrated with NIST traceable standards and the sample run. Data was recorded, signed, and reviewed by project personal prior to transmittal to the client.

Unsatisfactory Findings: None

Nonconformance Report No.: N/A

CAR/SCAR No.: N/A

Attachments: None

Recommendations/Actions: None

Equipment Calibration: Equipment was verified for calibration prior to running tests. All standards were NIST traceable.

Approved:

Institute Quality Assurance

Date:

6/25/02

Distribution:

cc:

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PM-Y. Pan (20)
B. Mabrito(20)

ACK
6/26/02



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INSTITUTE QUALITY ASSURANCE SURVEILLANCE REPORT

Project No.: 20-R9211

Report No.: 2002-SR-0163

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Surveillance Scope: Monitor the Tests for Trace Metal Analysis by Atomic Adsorption in Division 01. The client is NRC High Level Waste Program. This is a QA Nuclear surveillance.

Reference Documents: Work Order 22552, TAP 01-0406-038 Inductively Coupled Plasma/Atomic Emission Spectrometric Method for Trace Elemental Analysis, and SPQP CH/AN Rev 3.

Starting Date: 2002-06-17

Ending Date: 2002-07-15

Institute QA Representative: Charles S. Butcher

Person(s) Conducting Test/Exam/Procedure: T. O'Brien

Satisfactory Findings: A work request was provided to Division 01 for work performed. The work orders were logged in by receiving and labeled with PO number, QA Nuclear requirements, project number, tests required, and test revisions. The samples were labeled with, QA label, ID number, and work order number. The analysts training records were on file as required. Copies of the work order, methods, and SPQP were available. The instruments were calibrated with NIST traceable standards and the sample run. Data was recorded, signed, and reviewed by project personal prior to transmittal to the client.

Unsatisfactory Findings: None

Nonconformance Report No.:N/A

CAR/SCAR No.:N/A

Attachments: None

Recommendations/Actions: None

Equipment Calibration: Equipment calibration was verified prior to running samples. All standards were NIST traceable.

Approved:

B. Wolf
Institute Quality Assurance

Date:

7/22/02

Distribution:

cc:

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cc: CSB:

PM-B. Wertling(20)

B. Mabrito(20)

scd 7/22/02

scd 7/22/02



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INSTITUTE QUALITY ASSURANCE SURVEILLANCE REPORT

Project No.: 20-01402

Report No.: 2002-SR-0164

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Surveillance Scope: Monitor the Tests for Trace Metal Analysis by Atomic Adsorption and Analysis of Chlorides in Division 01. The client is NRC High Level Waste Program. This is a QA Nuclear surveillance.

Reference Documents: Work Order 22696, TAP 01-406-042 EPA 400 Analysis of Chlorides, TAP 01-0406-038 Inductively Coupled Plasma/Atomic Emission Spectrometric Method for Trace Elemental Analysis, and SPQP CH/AN Rev 3.

Starting Date: 2002-06-26

Ending Date: 2002-07-18

Institute QA Representative: Charles S. Butcher

Person(s) Conducting Test/Exam/Procedure: A.Albarran, T. OBrian

Satisfactory Findings: A work request was provided to Division 01 for work performed. The work order was logged in by receiving and labeled with PO number, QA Nuclear requirements, project number, tests required, and test revisions. The sample was labeled with PO number, QA label, ID number, and work order number. The analysts training records were on file as required. Copies of the work order, methods, and SPQP were available. The instruments were calibrated with NIST traceable standards and the sample run. Data was recorded, signed, and reviewed by project personal prior to transmittal to the client.

Unsatisfactory Findings: None

Nonconformance Report No.:N/A

CAR/SCAR No.:N/A

Attachments: None

Recommendations/Actions: None

Equipment Calibration: All equipment was verified for calibration proir to running tests. All standards were NIST traceable.

Approved: 
Institute Quality Assurance

Date: 7/22/02

Distribution: Original - SCD
cc: cc: CSB:
PM-Y.Pan(20)
B.Mabnto (20)

ACD
7/22/02



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INSTITUTE QUALITY ASSURANCE SURVEILLANCE REPORT

Project No.: 20-01402

Report No.: 2002-SR-0170

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Surveillance Scope: Monitor the Tests for Trace Metal Analysis by Atomic Adsorption and Detection of Inorganic Anions by Ion Chromatography, in Division 01. The client is NRC High Level Waste Program. This is a QA Nuclear surveillance.

Reference Documents: Work Order 22106, 22287, TAP 01-406-037 Dissolution of Acid Soluble Materials for Metals Analysis, TAP 01-0406-038 Inductively Coupled Plasma/Atomic Emission Spectrometric Method for Trace Elemental Analysis, EPA Method 300, and SPQP CH/AN Rev 3.

Starting Date: 2002-03-28

Ending Date: 2002-07-31

Institute QA Representative: Charles S. Butcher

Person(s) Conducting Test/Exam/Procedure: A. Albarran, T. O'Bruan, P. Mueller

Satisfactory Findings: A work request was provided to Division 01 for work performed. The work order was logged in by receiving and labeled with PO number, QA Nuclear requirements, project number, tests required, and test revisions. The sample was labeled with PO number, QA label, ID number, and work order number. The analysts training records were on file as required. Copies of the work order, methods, and SPQP were available. The instruments were calibrated with NIST traceable standards and the samples run. Data was recorded, signed, and reviewed by project personal prior to transmittal to the client.

Unsatisfactory Findings: None

Nonconformance Report No.: N/A

CAR/SCAR No.: N/A

Attachments: None

Recommendations/Actions: None

Equipment Calibration: Equipment was verified for calibration prior to running tests. All standards were NIST traceable.

Approved:

R. Webb
Institute Quality Assurance

Date:

8/6/02

Distribution:

cc:

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cc: CSB

PM-J. Prnkryl (20)

B. Mabnto(20)

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INSTITUTE QUALITY ASSURANCE SURVEILLANCE REPORT

Project No.: 20-01402

Report No.: 2002-SR-0174

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Surveillance Scope: Monitor the Tests for Trace Metal Analysis by Atomic Adsorption and Detection of Inorganic Anions by Ion Chromatography, in Division 01. The client is NRC High Level Waste Program. This is a QA Nuclear surveillance.

Reference Documents: Work Orders 22381,22550, TAP 01-406-042 EPA 300 Analysis of Chlorides, TAP 01-0406-038 Inductively Coupled Plasma/Atomic Emission Spectrometric Method for Trace Elemental Analysis, Standard Methods 2320B Alkalinity, and SPQP CH/AN Rev 3.

Starting Date: 2002-05-13

Ending Date: 2002-08-08

Institute QA Representative: Charles S. Butcher

Person(s) Conducting Test/Exam/Procedure: A.Albarran, T. Obrien, J. Wilks

Satisfactory Findings: A work request was provided to Division 01 for work performed. The work order was logged in by receiving and labeled with PO number, QA Nuclear requirements, project number, tests required, and test revisions. The samples were labeled with PO number, QA label, ID number, and work order number. The analysts training records were on file as required. Copies of the work order, methods, and SPQP were available. The instruments were calibrated with NIST traceable standards and the sample run. Data was recorded, signed, and reviewed by project personnel prior to transmittal to the client.

Unsatisfactory Findings: None

Nonconformance Report No.: N/A

CAR/SCAR No.: N/A

Attachments: None

Recommendations/Actions: None

Equipment Calibration: All equipment was verified for calibration prior to testing. All standards were NIST traceable.

Approved:


Institute Quality Assurance

Date:

8/9/02

Distribution:

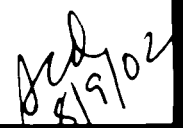
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Original - SCD

cc: CSB:

PM-B. Werling(20)

B. Mabrito(20)


8/9/02