District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised April 3, 2017

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

2RP-3472
Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Enterprise Products Operating, LLC	Contact Alena Miro
Address PO Box 4324, Houston, TX 77252	Telephone No. 575-628-6802
Facility Name Monsanto Road	Facility Type Dirt Road

Surface Owner State of New Mexico	Mineral Owner N/A	API No. N/A

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	16	25S	32E	612	South	822	East	Lea

Latitude N 32.124869 **Longitude** W -103.674213 NAD83

NATURE OF RELEASE

Type of Release Pipeline Hydro-Test Water	Volume of Release 300,000 gals	Volume Recovered N/A
Source of Release Haul Truck	Date and Hour of Occurrence 3/22 – 23/2014	Date and Hour of Discovery
Was Immediate Notice Given? ☐ Yes ☒ No ☐ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.*

While contract required construction contractor to dispose water at NMOCD permitted SWD, haul trucks took test water to Monsanto Road and sprayed for dust suppression. Soil samples have been collected pursuant to NMOCD-approved plan and analyzed.

Describe Area Affected and Cleanup Action Taken.*

Water was distributed on Monsanto Road beginning at Orla Highway and going west for approximately 1.9 miles. Soil samples have been collected pursuant to NMOCD-approved plan and analyzed. The results of analysis are included in the attached report.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: Jon E. Fields	OIL CONSERVATION DIVISION
Printed Name: Jon E. Fields	Approved by Environmental Specialist: Ashley Maxwell
Title: Director, Field Environmental	Approval Date: 4/13/2023 Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval: Attached ☐
Date: 5-9-19 Phone: 713-381-6684	

* Attach Additional Sheets If Necessary

Enterprise Products

ENTERPRISE PRODUCTS PARTNERS L.P.
ENTERPRISE PRODUCTS HOLDINGS LLC
(General Partner)

ENTERPRISE PRODUCTS OPERATING LLC

June 22, 2016

7015 0640 0005 6971 9279
Return Receipt Requested

New Mexico Oil Conservation Division
Energy Mineral and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 07505

RE: Settlement Agreement
Case No. WQCC15-05 (CO)

Sir:

Attached is Enterprise's check in the amount of $195,000 as outlined in III. Order of the referenced agreement. Should you need to contact Enterprise regarding this payment, I can be reached at 713-381-6595.

Yours truly,

Shiver J. Nolan
Sr. Compliance Administrator

Enclosure
ec Earl E. DeBrine, Modrall Sperling edebrine@modrall.com
Vijay d'Cruz vdcruz@eprod.com

7015 0640 0005 6971 9279

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

New Mexico

OFFICIAL USE

Certified Mail Fee
$

Extra Services & Fees (check box, add fee as appropriate)
- [x] Return Receipt (hardcopy) $
- [ ] Return Receipt (electronic) $
- [ ] Certified Mail Restricted Delivery $
- [ ] Adult Signature Required $
- [ ] Adult Signature Restricted Delivery $

Postage $ .46

Total Postage and Fees $ 6.46

Postmark Here

JUN 27 2016

New Mexico Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, NM 87505

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to: New Mexico

New Mexico Oil Conservation Division
Energy Mineral and Natural Resources Department
1220 S. St. Francis Drive
Santa Fe, NM 87505

9590 9402 1314 5285 8032 59

2. Article Number (Transfer from service label)
7015 0640 0005 6971 9279

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X
- [ ] Agent
- [ ] Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1?
If YES, enter delivery address below:
- [ ] Yes
- [ ] No

JUN 27 2016

3. Service Type
- [ ] Adult Signature
- [ ] Adult Signature Restricted Delivery
- [x] Certified Mail®
- [ ] Certified Mail Restricted Delivery
- [ ] Collect on Delivery
- [ ] Collect on Delivery Restricted Delivery
- [ ] Insured Mail
- [ ] Insured Mail Restricted Delivery (over $500)
- [ ] Priority Mail Express®
- [ ] Registered Mail™
- [ ] Registered Mail Restricted Delivery
- [ ] Return Receipt for Merchandise
- [ ] Signature Confirmation™
- [ ] Signature Confirmation Restricted Delivery

PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

Backup Information
Not Submitted to Agency

Nolan, Shiver

From: Ricca, Sandra
Sent: Tuesday, June 07, 2016 1:53 PM
To: Nolan, Shiver
Subject: RE: Question on Coding of "contribution"

Shiver, the $495,000 should be coded to 401.33035.0.0.0.0. This expense was accrued a long time ago on MAPL and Enterprise Field Services.

Thank you,

Sandra Ricca, CPA
Enterprise Products Partners (NYSE: EPD)
Director, Financial Accounting
1100 Louisiana, Room 9.210
Ofc: 713-381-6838
Cell: 281-989-3842
email: sricca@eprod.com

From: Nolan, Shiver
Sent: Tuesday, June 07, 2016 10:30 AM
To: Ricca, Sandra
Subject: Question on Coding of "contribution"

As a part of a Settlement with New Mexico I'm going to have to do a check request for $300,000 to an New Mexico agency (not the NMED)
It concerns two projects Salt Lake Lateral and Western Expansion III but this has been a long time in the making. Graham said to code as a contribution but did not give me a cost center.
There is still a penalty that will have to be paid roughly $195,000.

Shiver J. Nolan
Sr. Compliance Administrator
Enterprise Products Operating LLC

STATE OF NEW MEXICO

WATER QUALITY CONTROL COMMISSION

IN THE MATTER OF
Enterprise Products Operating, LLC,
a Texas limited liability company,
Respondent.

Case No. WQCC 15-05 (CO)

STIPULATED FINAL ORDER

Pursuant to authority vested under the New Mexico Water Quality Act ("WQA"), NMSA 1978, §§ 74-6-1 to 74-6-17, the Ground and Surface Water Protection Regulations ("Regulations"), 20.6.2 NMAC, and 20.1.3.22 NMAC, the New Mexico Water Quality Control Commission hereby issues this Stipulated Final Order to resolve the Administrative Compliance Order ("ACO") issued to Enterprise Products Operating, LLC ("Respondent") on April 17, 2015.

Pursuant to 20.1.3.22(B) NMAC, the Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department ("OCD") and Respondent have entered into a Settlement Agreement, which is submitted herewith as Attachment 1. The Settlement Agreement is a compromise of a disputed claim and resolves the ACO issued to Respondent and the violations of the WQA and the Regulations alleged in the ACO.

For the purposes of this Stipulated Final Order, Respondent admits to the jurisdictional allegations of the ACO and the Settlement Agreement and consents to the relief specified in the Settlement Agreement.

IT IS THEREFORE ORDERED that the Settlement Agreement is hereby approved and the Parties shall comply with the terms and conditions of the Settlement Agreement, which are hereby incorporated into this Stipulated Final Order.

BY:_____ DATE:_____
Ryan Flynn, Chairman
Water Quality Control Commission

Submitted by:

William Brancard
General Counsel
Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe NM 87505
505.476.3210
Bill.brancard@state.nm.us

Counsel for the NM Oil Conservation Division

Earl E. DeBrine, Jr.
Modrall Sperling
500 4th St. NW, Ste. 1000
Albuquerque, NM 87102
505.848.1810
edebrine@modrall.com

Counsel for Enterprise Products Operating, LLC

STATE OF NEW MEXICO
WATER QUALITY CONTROL COMMISSION

WQCC 15-05 (CO)

IN THE MATTER OF Enterprise Products Operating, LLC,
a Texas limited liability company,
Respondent.

SETTLEMENT AGREEMENT

Pursuant to the Water Quality Act, NMSA 1978, Sections 74-6-1 through 74-6-17 as amended ("WQA") and the Oil and Gas Act, NMSA 1978, Sections 70-2-1 through 70-2-38, as amended ("OGA"), and 20.1.3.22(B) NMAC, the Director of the Oil Conservation Division ("OCD") and Enterprise Products Operating, LLC ("Enterprise") enter into this Settlement Agreement ("Agreement") finally settling and resolving the violations asserted in the OCD's Administrative Compliance Order WQA-OCD-CO-2015-1 issued April 17, 2015 ("ACO OCD-CO-2015-1").

I. FINDINGS

1. OCD is the state agency charged with administration and enforcement of the OGA and WQA with regard to oil and gas activities, and rules and orders adopted pursuant to each Act. OCD is a constituent agency under the WQA which has been assigned responsibilities under the WQA by the Water Quality Control Commission ("WQCC"). NMSA 1978, Section 74-6-4(F).

2. Enterprise is a limited liability company doing business in the state of New Mexico under New Mexico Secretary of State registration No. 2916120.

3. On April 17, 2015, OCD issued Administrative Compliance Order WQA-OCD-CO-2015-1 ("ACO OCD-CO-2015-1") concerning discharges of hydrostatic test water associated with Enterprise's discharge permit No. HIP-122 for Enterprise's Western Expansion Pipeline III, Segment 3 project, located in Santa Fe County, New Mexico; and concerning discharges of hydrostatic test water associated with Enterprise's discharge permit No. HIP-126, associated with Enterprise's Salt Lake Extension, located in Eddy County, New Mexico. HIP-122 and HIP-126 are referred to as "the Permits".

4. On May 15, 2015, Enterprise filed a Request for Compliance Order Hearing and Answer, denying certain factual assertions in the ACO OCD-CO-2015-1 and denying that it violated the terms of the Permits, the OGA, WQA or regulations promulgated under either Act.

5. Under 20.1.3.22.B NMAC, Enterprise and OCD have entered into this Agreement for the sole purpose of resolving and settling all asserted violations set forth in the ACO OCD-CO-2015-1, together with any matters relating to or arising out of the ACO OCD-CO-2015-1 in order to avoid the cost, expense and uncertainty of further adversarial proceedings or litigation.

6. OCD will not, in any future proceedings, seek any civil penalties against Enterprise for any act or omission of Enterprise, its employees or affiliates with respect to the matters described in the ACO OCD-CO-2015-1.

7. OCD reserves the right to seek civil penalties against Enterprise for any breach of the terms of this Agreement or any violations of the OGA, WQA and regulations promulgated under either Act.

II. CONCLUSIONS

8. The WQCC has jurisdiction over the parties and subject matter in this proceeding under the WQA.

9. This Agreement is consistent with the provisions and objectives of the WQA and regulations and is in the public interest.

III. ORDER

10. Enterprise agrees to a civil penalty of $195,000.

11. Upon approval of the Stipulated Final Order ("Order") by the WQCC, Water Quality Control Commission proceeding WQCC 15-05 (CO), *IN THE MATTER OF Enterprise Products Operating, LLC, a Texas limited liability company*, will be dismissed with prejudice.

IV. OTHER TERMS AND CONDITIONS

12. By signing this Order, Enterprise expressly:

(a) Denies the violations alleged in ACO OCD-CO-2015-1;

(b) agrees to pay the penalty of $195,000 within 30 days of the effective date of the Order;

(c) waives any right, pursuant to the OGA, WQA or otherwise, to an appeal from the Order, or to a hearing either prior to or subsequent to the entry of the Order; and

(d) agrees that the Order may be enforced by OCD, WQCC, or the Oil Conservation Commission, by suit or otherwise to the same extent and with the same effect as a final order of the OCD or WQCC entered after notice and hearing in accordance with all terms and provisions of the OGA and WQA.

13. At the request of OCD, and as part of Enterprise's commitment to minimizing the environmental impacts from wastewater generated by oil and gas activity and the conservation and protection of New Mexico's water resources, Enterprise has funded supplemental environmental projects by providing $300,000 to the Oil and Gas Reclamation Fund, NMSA 1978, Sections 70-2-37 and 38, to provide for: (a) education and training in the field of wastewater transportation for the oil and gas industry; and (b) education and research to promote the reuse and recycling of liquids used in the oil and gas industry.

14. Integration and Modification. This Agreement merges all prior written and oral communications between the parties concerning the subject matter of the ACO OCD-CO-2015-1, and contains the entire agreement between the parties. This Agreement shall not be modified without the express written consent of the parties.

15. Reservation of Rights and Defenses. This Agreement shall not be construed to prohibit or limit in any way the OCD from requiring Enterprise to comply with any applicable state or federal requirement. This Agreement shall not be construed to prohibit or limit in any way the OCD from seeking any relief authorized by the WQA for violation of any state or federal requirement applicable to Enterprise not resolved herein. The Agreement shall not be construed to prohibit or limit in any way Enterprise from raising any defense to an OCD action seeking such relief. Provided further that this Agreement shall not be construed to prohibit or limit in any way the OCD from seeking any relief authorized by the OGA or WQA for violation of any state or federal requirement against any of Enterprise's contractors or subcontractors or other persons or entities hired by such contractors or subcontractors involved in the discharge of hydrostatic test water associated with Enterprise's Permits.

16. Mutual Release. OCD hereby releases Enterprise, Enterprise Field Services, LLC, Mid-America Pipeline Company, LLC, Mapletree, LLC, EPCO Holdings, Inc. and their affiliated corporations or limited liability companies employees and successors in interest from all claims that it raised or could have raised regarding the facts and legal conclusions set forth in the ACO OCD-CO-2015-1 and Enterprise's Request for Compliance Order Hearing and Answer.

Provided further that this release shall not be construed to extend to any of Enterprise's contractors or subcontractors or other persons or entities hired by such contractors or subcontractors involved in the discharge of hydrostatic test water associated with Enterprise's Permits or to in any way limit any right of indemnity by Enterprise. Enterprise releases OCD from all claims that it raised or could have raised regarding the facts and legal conclusions set forth in the ACO OCD-CO-2015-1 and Enterprise's Request for Compliance Order Hearing and Answer.

17. Waiver of State Liability. As between Enterprise on the one hand and the OCD and State of New Mexico on the other, Enterprise shall assume all costs and liabilities incurred in performing any obligation under this Agreement. The OCD, on its own behalf or on the behalf of the State of New Mexico or any other state agency, shall not assume any liability for Enterprise's performance of any obligation under this Agreement.

18. Authority to Bind. The person executing this Agreement on behalf of Enterprise represents that s/he has the authority to execute this Agreement on behalf of Enterprise.

19. Effective Date. This Agreement shall become effective upon the execution by the duly authorized representatives of OCD and Enterprise.

20. This Agreement applies only to the enforcement of the violations set forth in the ACO OCD-CO-2015-1. Other discharges by Enterprise may be subject to immediate enforcement action under the OGA and the WQA, and under WQCC and OCD Rules. Nothing in this Agreement relieves Enterprise of its responsibility for compliance with the OGA, WQA or any other federal, state or local laws and/or regulations.

Done at Santa Fe, New Mexico this ___th day of May, 2016

For the Oil Conservation Division

By:_____
David Catanach
Director, Oil Conservation Division

ACCEPTANCE

Enterprise Products Operating, LLC hereby accepts the foregoing Agreement, and agrees to all of the terms and provisions as set forth in the Agreement.

ENTERPRISE PRODUCTS OPERATING, LLC
By:_____

Title:_____

Date:_____

☐ URGENT!!

PAYMENT REQUEST

Enterprise Field Services

Indicate Name and Number of Paying EPCO, TEPPCO, DEP Company

Payment Due Date: ASAP

Total Payment Amount: $ 300,000

PAYMENT INFORMATION (please print)

Items with asterisk (*) are required for ACH or Wire payment only. All other information required for all payment types.

☐ ACH (Electronic) ☒ Check ☐ Wire ☐ Visa/Master Card

Payee Name: Oil and Gas Reclamation Fund-New Mexico Oil Conservation Division

This refers to the 'Parent' or 'Holding Company' to whom the money should be paid

☒ Pay Alone**

**separate from other payments to supplier

*For Further Credit:

This refers to the Company who billed EPCO, Inc. for the product/service

Misc. Cash Coding:

This additional detail is needed in the event that this is an intercompany payment

Payment For: Contribution

Special Handling Instructions: Return Check to Shiver

PAYEE INFORMATION

Items with asterisk (*) are required for ACH or Wire payment only. All other information required for all payment types.

Street Address: 1220 South St. Francis Drive

City, State, Zip: Santa Fe, NM 87505

*Bank Name:

*Bank ABA Number:

*Bank Account Number:

Approval

Approval in accordance with MAP is required in order to assure timely processing of requested payment.

Shiver J. Nolan Preparer's Name Printed	Sr. Compliance Administrator Title	 Signature	Date
Reviewer's Name Printed	Title	Signature	Date
Graham Bacon Approver's Name Printed	Executive Vice President Title	 Signature	6/8/16 Date

Payment Distribution Coding

All information is required in order to assure timely processing of requested payment

LIST ALL INVOICES FOR WHICH THIS PAYMENT REQUEST IS BEING SUBMITTED

ACCOUNT CODING									DESCRIPTION / REFERENCE	$ AMOUNT	$ AMOUNT
INVOICE #	CO	MAJOR	MINOR	CC	I/C	FERC	TAX COMMODITY	TAX LOCATION		DEBIT	CREDIT
	401	33035	0	0	0	0	OPERM1002	CORF	Salt Lake Lateral - Western Expansion III	300,000.00	
									Subtotals :	300,000.00	-
									Total Payment :		300,000

Items with asterisk (*) are required for ACH or Wire payment only.

All other information required for all payment types.

Invoice detail (including applicable backup detail) MUST be attached.

Mail to: EPCO, Inc.
Attention: Accounts Payable
1100 Louisiana, 5th Floor
Houston, TX 77002

or Email to: apadmin@eprod.com

Nolan, Shiver

From: Zirbes, Ivan
Sent: Monday, June 20, 2016 7:27 AM
To: Nolan, Shiver
Subject: FW: NMOCD

Almost forgot to send you this!

This is to pay the $195K penalty portion of the New Mexico enforcement. Let me know if you have any questions. Details are in the same document I sent you on the $300K portion.

Thank you!
Ivan

From: Earl E. DeBrine [mailto:edebrine@modrall.com]
Sent: Thursday, June 16, 2016 6:38 PM
To: D'Cruz, Vijay; Zirbes, Ivan
Subject: RE: NMOCD

The check should payable to the State of New Mexico and sent to:

David Catanach, Director
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

From: D'Cruz, Vijay [mailto:vdcruz@eprod.com]
Sent: Thursday, June 16, 2016 7:11 AM
To: Zirbes, Ivan
Cc: Earl E. DeBrine
Subject: FW: NMOCD

Ivan:

FYI, we need to pay the civil penalty by July 14th.

Earl:

Can you provide us the detail of to whom to make payment, and where to send the payment?

Thanks,

Vijay

From: Earl E. DeBrine [mailto:edebrine@modrall.com]
Sent: Tuesday, June 14, 2016 3:56 PM
To: D'Cruz, Vijay
Subject: RE: NMOCD

Vijay,
The Water Quality Control Commission considered the Settlement Agreement and Order at its hearing this morning and approved them on a 7-0 vote. Commissioner Scott Dawson abstained because of his involvement as OCD Deputy Director in issuing the ACO to Enterprise. Secretary Martin was unavailable so EMNRD Deputy Secretary Tony Delfin presented the matter to the Commission.

As a reminder, under paragraph 12 of the Order, Enterprise is required to pay the civil penalty of $195,000 within 30 days of effective date of the Order, which is July 14, 2016.
--Earl

MODRALL SPERLING

Earl E. DeBrine, Jr.
Modrall Sperling | www.modrall.com
P.O. Box 2168 | Albuquerque, NM 87103-2168
500 4th St. NW, Ste. 1000 | Albuquerque, NM 87102
D: 505.848.1810 | O: 505.848.1800 | C: 505.264.8409

-----Original Message-----
From: D'Cruz, Vijay [mailto:vdcruz@eprod.com]
Sent: Friday, June 10, 2016 9:40 AM
To: Zirbes, Ivan
Cc: Earl E. DeBrine
Subject: Re: NMOCD

Great. Thanks.

Vijay D'Cruz
Vice President, Litigation
Enterprise Products

1100 Louisiana Street, 24th Floor<x-apple-data-detectors://5/0>
Houston, Texas 77002<x-apple-data-detectors://5/0>
713.381.3996<tel:713.381.3996> (direct)
713.381.6950<tel:713.381.6950> (fax)
713.446.5645<tel:713.446.5645> (cell)

On Jun 10, 2016, at 10:38 AM, Zirbes, Ivan <IWZIRBES@eprod.com<mailto:IWZIRBES@eprod.com>> wrote:

All,

See attached documents for your records. Should hit their desk early Monday.

Ivan

From: Zirbes, Ivan
Sent: Wednesday, June 08, 2016 5:01 PM
To: edebrine@modrall.com<mailto:edebrine@modrall.com>; D'Cruz, Vijay
Subject: RE: NMOCD

Thanks!

Vijay,

I'll have Shiver put on letterhead for my signature and we'll get it sent overnight on Friday when we get the check from AP.

Ivan

From: Earl E. DeBrine <edebrine@modrall.com<mailto:edebrine@modrall.com>>
Sent: Wednesday, June 8, 2016 9:07:50 PM
To: Zirbes, Ivan; D'Cruz, Vijay
Subject: RE: NMOCD

I spoke to Allison and we can send her the check. As far as the transmittal letter, you can say something like this:

Dear Ms. Marks:

As part of Enterprise's commitment to minimizing the environmental impacts from wastewater generated by oil and gas activity and the conservation and protection of New Mexico's water resources, Enterprise is enclosing a check for $300,000 for a donation to the State of New Mexico's Oil and Gas Reclamation Fund. Enterprise understands that this donation will be used to provide for education and training in the field of wastewater transportation for the oil and gas industry and promote the reuse and recycling of liquids used in the oil and gas industry. We are glad we can make a meaningful contribution for these purposes.

Very truly yours,

<image001.jpg><http://www.modrall.com/>
Earl E. DeBrine, Jr.
Modrall Sperling | www.modrall.com<http://www.modrall.com/>
P.O. Box 2168 | Albuquerque, NM 87103-2168
500 4th St. NW, Ste. 1000 | Albuquerque, NM 87102
D: 505.848.1810 | O: 505.848.1800 | C: 505.264.8409

-----Original Message-----
From: Zirbes, Ivan [mailto:IWZIRBES@eprod.com]
Sent: Wednesday, June 08, 2016 11:56 AM
To: D'Cruz, Vijay; Earl E. DeBrine
Subject: RE: NMOCD

Is Alison expecting to be the person to get the check and is okay with this?

Ivan

From: D'Cruz, Vijay

Sent: Wednesday, June 8, 2016 5:33:33 PM

To: Earl E. DeBrine

Cc: Zirbes, Ivan

Subject: RE: NMOCD

Okay. Do you want to draft a cover letter or are there anything specific we should reference? I don't want the check to get lost within NMOCD, and suspect someone else will be opening and sorting through Allison's mail.

From: Earl E. DeBrine [mailto:edebrine@modrall.com]

Sent: Wednesday, June 08, 2016 10:22 AM

To: D'Cruz, Vijay

Subject: RE: NMOCD

Vijay,

You can do that but it's probably quicker to send it to Allison who is now Deputy Director of NMOCD:

Allison Marks

Deputy Director

New Mexico Oil Conservation Division

1220 South St. Francis Drive

Santa Fe, New Mexico 87505

I receive a voicemail this morning from Shawnra Knowten, who is processing the check seeking confirmation of the address to send the check. I also told her to send it to Allison at NMOCD.

--Earl

From: D'Cruz, Vijay [mailto:vdcruz@eprod.com]

Sent: Wednesday, June 08, 2016 6:55 AM

To: Earl E. DeBrine

Subject: FW: NMOCD

Earle:

Thoughts? Can we just give you the check and let you handle it?

Thanks,

Vijay

From: Zirbes, Ivan

Sent: Tuesday, June 07, 2016 11:04 AM

To: D'Cruz, Vijay

Subject: RE: NMOCD

Vijay,

The check request is getting processed and expedited. We'll also make sure we overnight it. I'm a little concerned on how we are going "provide evidence of funding" by a week from today so we may want to get some feedback from the Modrall folks on what that means.

Ivan

From: D'Cruz, Vijay

Sent: Thursday, June 02, 2016 11:45 AM

To: Zirbes, Ivan

Subject: FW: NMOCD

Can you get the ball rolling to fund the donation?

From: Earl E. DeBrine [mailto:edebrine@modrall.com]

Sent: Thursday, June 02, 2016 11:43 AM

To: D'Cruz, Vijay

Subject: RE: NMOCD

Vijay,

The approval of the settlement has been placed on the June 14th docket and will be heard first. Secretary Martin is planning to present it to the Commission. I spoke to Allison Marks today and she said that we need to make sure that the donation to the O&G Reclamation fund is made before the hearing in accordance with the settlement's recital in paragraph 13 that "Enterprise has funded .. by providing $300,000 to the Oil and Gas Reclamation Fund..." We'll need to provide evidence of funding of the donation to NMOCD. Let me know if that is going to create any problems.

--Earl

[MSEmailLogo]<http://www.modrall.com/>

Earl E. DeBrine, Jr.

Modrall Sperling |
www.modrall.com<http://www.modrall.com/<http://www.modrall.com%3chttp:/www.modrall.com/>>

P.O. Box 2168 | Albuquerque, NM 87103-2168

500 4th St. NW, Ste. 1000 | Albuquerque, NM 87102

D: 505.848.1810 | O: 505.848.1800 | C: 505.264.8409

From: D'Cruz, Vijay [mailto:vdcruz@eprod.com]

Sent: Thursday, May 12, 2016 6:53 AM

To: Earl E. DeBrine

Subject: NMOCD

Earl:

I had a call with Bill Brancard Tuesday and we have reached an agreement. Graham Bacon our EVP has signed it, and the original signature is heading your way.

My understanding is that Allison is trying to have this matter set for the June 14th docket, but it may be pushed to a later docket if there is not enough additional matters to be heard that day.

I will let Bill know that you have the signed agreement and are running with things for us.

Thanks,

Vijay D'Cruz

Vice President, Litigation

[EnterpriseProductsLogo.bmp]

1100 Louisiana Street, 24th Floor

Houston, Texas 77002

713.381.3996 (direct)

713.381.6950 (fax)

713.446.5645 (cell)

Modrall, Sperling, Roehl, Harris & Sisk, P.A. THIS MESSAGE IS INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY TO WHICH IT IS ADDRESSED AND MAY CONTAIN INFORMATION THAT IS CONFIDENTIAL, EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW, AND PROTECTED BY THE ATTORNEY-CLIENT PRIVILEGE. If the reader of this message is not the intended recipient or agent responsible for delivering the message to the intended recipient, you are hereby notified that any review,dissemination or copying of this communication is strictly prohibited. If you have received this electronic transmission in error, please do not read it, delete it from your system without copying it, and notify the sender by reply e-mail or by calling 505.848.1800 ,so that our address record can be corrected. Thank you.

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SOIL SAMPLING REPORT

Permian Expansion – Hydrostatic Water Release
(Permit # HIP-126)
Monsanto Road, Rural Lea County, NM

January 2015
Apex Project No. 7020114G292

Prepared for:

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Senior Program Manager

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SOIL SAMPLING REPORT

Permian Expansion – Hydrostatic Water Release
(Permit # HIP-126)
Monsanto Road, Rural Lea County, NM

Apex Project No. 7020114G292

1.0 INTRODUCTION

This Soil Sampling Report (SSR) documents the implementation of the Soil Sampling Plan (SSP), dated December 9, 2014, submitted by Enterprise Products Operating LLC (Enterprise) to the New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD). The proposed SSP was developed in accordance with applicable provisions of 19.15.29 of the New Mexico Administrative Code (NMAC), and was approved, verbally, by Mr. Jim Griswold (OCD) on December 10, 2014. This SSR documents the soil sampling activities performed to evaluate the potential presence, magnitude and/or extent of select constituents of concern (COCs) resulting from the application of hydrostatic test water from a new pipe installation to the land surface in rural Lea County, New Mexico.

1.1 Site Area Descriptions & Background

The areas of concern and the soil sampling locations were based on information obtained from Enterprise personnel. The hydrostatic test water application occurred during late March 2014, when water trucks equipped with drip bars applied the water to a dirt/gravel section of Monsanto Road, east of Orla Road, in rural Lea County, hereinafter referred to as the Site. The approximate locations of the applications are further described by the following coordinates:

- Monsanto Road approximate start point: 32.124869 N, -103.674213 W
- Monsanto Road approximate end point: 32.123547 N, -103.706092 W

An estimated maximum of 300,000 gallons of hydrostatic test water were applied to approximately 1.9 miles of Monsanto Road, west of Sahara Lane, where the asphalt pavement ends and Monsanto Road becomes a dirt/gravel road.

Laboratory analysis of the source water well that was utilized for the hydrostatic test water was performed. The water was analyzed for drinking water parameters and indicated levels of chloride, sulfate and total dissolved solids (TDS) above New Mexico Water Quality Control Commission (WQCC) standards (NMAC 20.6.2.3103).

The New Mexico Office of the State Engineer online database was searched for reported water wells within Sections 15, 16 and 17, Township 25 South, Range 32 West, and no water wells were reported within the three (3) sections.

1.2 Objectives

The objectives of the soil sampling activities were to 1.) Evaluate the presence, magnitude and/or extent of sulfate, chloride, iron and manganese concentrations in soils where hydrostatic test water was applied; and, 2.) Evaluate the presence and/or magnitude of sulfate, chloride, iron and

manganese concentrations in "background" locations along Monsanto Road adjacent to where the hydrostatic test water was applied.

2.0 SOIL SAMPLING ACTIVITIES

During December 2014, Apex collected soil samples along Monsanto Road where the hydrostatic discharge water was reportedly applied. Additionally, samples were collected from adjacent to Monsanto Road to provide background data from an unaffected area within the same vicinity. A total of 110 soil samples were collected during this event. Soil sample locations are presented on Figure 3 in Appendix A.

During the soil sampling activities, water trucks (unrelated to Enterprise) were driving down Monsanto Road, releasing water, as shown on a photograph in Appendix D. The Declaration of Adrian Jackson, Apex TITAN, Inc., environmental geologist, who performed the field sampling event, and observed and photographed the water trucks, is included in Appendix E.

2.1 Soil Sample Locations

Monsanto Road

Apex collected soil samples along Monsanto Lane approximately every 500 horizontal feet along approximately 1.9 miles of Monsanto Lane. Samples were collected from three (3) locations along the width of the road, two (2) samples on each side of Monsanto Lane and two (2) samples from the middle of Monsanto Lane. The roadside samples were collected from a depth of 0-6 inches, and the middle sampling locations was also sampled from 6-12 inches.

Background Sampling - Monsanto Road

Apex collected samples from alongside Monsanto Road for use as background samples in relation to Monsanto Road. The samples were obtained from at least 10 feet off the road in the apparent upgradient direction below the initial soil surface. The samples were taken along Monsanto Road in the same 500 foot increments as the confirmation samples in Monsanto Road.

2.2 Soil Sampling Program

The soil sampling program involved submitting five (5) soil samples from each soil sampling transect for laboratory analysis. Sample locations were recorded in the field. Soil samples were collected and placed in laboratory prepared glassware and placed on ice in a cooler, maintained at or below four (4) (+/- 2) degrees centigrade and secured with a custody seal. The sample cooler and completed chain-of-custody forms were relinquished to Trace Analysis' laboratory in Lubbock, TX for normal turnaround and can be found in Table 1 (Appendix B).

2.3 Laboratory Analytical Methods

The soil and background samples were analyzed for chloride and sulfate utilizing EPA method 300, and iron and manganese utilizing EPA method 6010. The number of samples and analyses are presented below:

Analysis	Sample Type	No. of Samples	Method
Anions	Soil Investigative	88	EPA 300
	Soil Background	22	EPA 300
Metals	Soil Investigative	88	EPA 6010
	Soil Background	22	EPA 6010

Laboratory results are summarized in Table 1, included in Appendix B. The executed chain-of-custody form and laboratory data sheets are provided in Appendix C.

3.0 DATA EVALUATION

The Site area is under regulatory oversight by the New Mexico EMNRD OCD. Laboratory analyses of the source of the hydrostatic test water for drinking water parameters indicated levels of iron, manganese, chloride, sulfate, and TDS above WQCC standards (NMAC 20.6.2.3103) or background. The soil sampling program was designed to assess the Site area with respect to these WQCC drinking water standard exceedances, while complying with reporting requirements of NMAC 19.15.29.

3.1 Soil Sample Results

Apex Titan, Inc. (Apex) compared the iron and manganese concentrations or reporting limits associated with the soil samples to the NMED baseline Residential SSLs and the projected concentration ranges provided in the USGS Professional Paper 1270 - *Element Concentrations in Soils and Other Surficial Materials of the Conterminous United States (1984)*.

Soil screening levels are not established for sulfate or chlorides by the NMED.

Monsanto Road

The investigative soil sample results from Monsanto road exhibited iron concentrations ranging from 1,470 mg/Kg to 6,330 mg/Kg, below the NMED Residential SSL of 23,500 mg/Kg. The reported background/upgradient iron concentrations ranged from 1,100 mg/Kg to 5,900 mg/Kg, also below the NMED Residential SSL of 23,500 mg/Kg.

The investigative soil sample results exhibited manganese concentrations ranging from 12.8 to 66.2, below the NMED Construction Worker SSL of 150 mg/Kg. The reported background/upgradient manganese concentrations ranged from 12.5 mg/Kg to 60.7 mg/Kg, also below the NMED Construction Worker SSL of 150 mg/Kg.

The investigative soil sample results from the Monsanto Road exhibited chloride concentrations ranging from <25.0 mg/Kg to 1,310 mg/Kg. The background soil sample results ranged from <25.0 mg/Kg to 93.4 mg/Kg.

The investigative soil sample results exhibited sulfate concentration ranging from <25.0 mg/Kg to 9,800 mg/Kg. The background/upgradient sulfate concentrations ranged from <25.0 mg/Kg to 248 mg/Kg

Laboratory Analytical results are provided in Table 1 in Appendix C.

4.0 FINDINGS

Based on the data provided through the laboratory analysis of 110 investigative and background samples, the application of hydrostatic test water has produced no readily identifiable adverse effect to the environment with respect to published regulatory standards. The following discussion focuses on possible trends with respect to the collective results:

Iron and Manganese

As demonstrated by the laboratory data, observed iron and manganese concentrations are below the more stringent NMED applicable SSLs for each constituent.

Chloride and Sulfate

The investigative soil sample results from the Monsanto Road exhibited chloride concentrations ranging from <25.0 mg/Kg to 1,310 mg/Kg. The background soil sample results ranged from <25.0 mg/Kg to 93.4 mg/Kg.

According to the USDA[1], sulfate concentrations in soils are thought to average 850 mg/Kg. The sulfate concentration average in the soils is higher than the USDA average. The average sulfate concentration is 2,505 mg/Kg. The background samples collected from adjacent to Monsanto Road ranged from <25.9 to 248 mg/Kg.

Monsanto Road is a caliche road and caliche is a sedimentary rock, a hardened natural cement of calcium carbonate that binds other materials—such as gravel, sand, clay, and silt. The sulfate concentrations reported for Monsanto Road could be attributable to calcium sulfate, which is poorly soluble, especially when compared with the solubility of ionic sulfate. Therefore, the sulfate is not likely to affect groundwater.

5.0 STANDARD OF CARE, LIMITATIONS, AND RELIANCE

Apex's services were performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period. Apex makes no warranties, expressed or implied, as to the services performed hereunder. Additionally, Apex does not warrant the work of third parties supplying information used in the report (e.g. laboratories, regulatory agencies, or other third parties). This scope of services was performed in accordance with the scope of work agreed with the client.

Findings, conclusions and recommendations resulting from these services are based upon information derived from the on-Site activities and other services performed under this scope of work and it should be noted that this information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, or not present during these services, and Apex cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during this scope of services. Environmental conditions at other areas or portions of the Site may vary from those

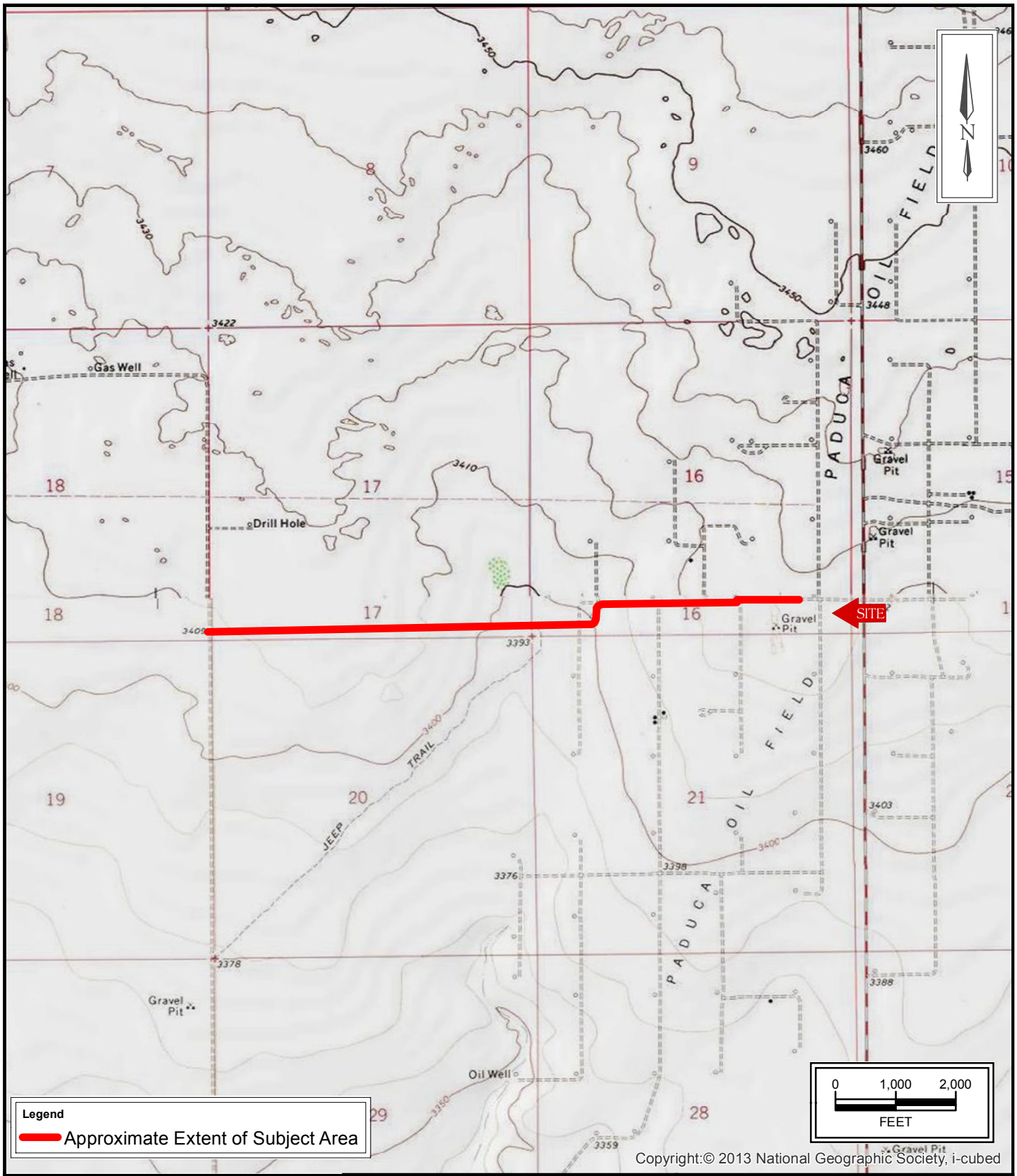
[1] "Dietary Reference Intakes For Water, Potassium, Sodium, Chloride, and Sulfate" Institute of Medicine of the National Academies, USDA, 2005, p.425.

encountered at actual sample locations. Apex's findings and recommendations are based solely upon data available to Apex at the time of these services.

This report has been prepared for the exclusive use of Enterprise, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the expressed written authorization of Enterprise and Apex. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the proposal, the report, and Apex's Agreement. The limitation of liability defined in the agreement is the aggregate limit of Apex's liability to the client.

APPENDIX A

Figures



Permian Expansion
Hydrostatic Water Release
Monsanto Lane
Rural Lea County, New Mexico

Project No. 7020114G292

Apex TITAN, Inc.
2351 W. Northwest Highway
Dallas, Texas 75220
Phone: (214) 350-5469
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A Subsidiary of Apex Companies, LLC

Figure 1

Topographic Map

Paduca Breaks West and Paduca Breaks NW Quadrangles
1973

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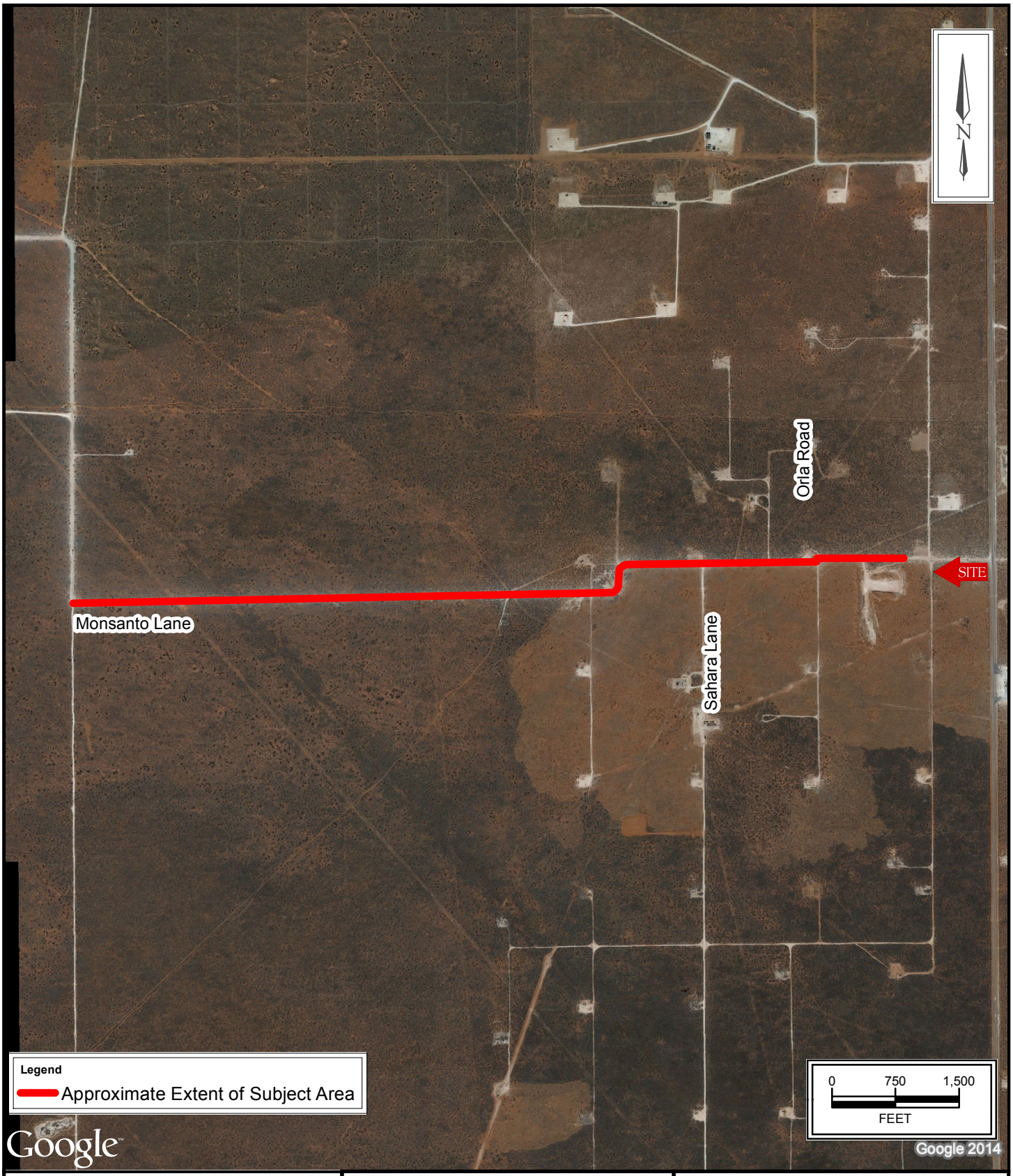

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Figure 2

Site Vicinity Map

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Legend

- Soil Sample Location
- Approximate Extent of Subject Area

Permian Expansion
Hydrostatic Water Release
Monsanto Lane
Rural Eddy County, New Mexico

Project No. 7020114G292

Figure 3

Sample Location Map

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APPENDIX B

Tables

TABLE 1
ENTERPRISE PERMAIN EXPANSION (Salt Lake Hydrotest Water)
SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Depth (inches)	Chloride (mg/kg)	Iron (mg/kg)	Manganese (mg/kg)	Sulfate (mg/kg)
New Mexico Environment Department Soil Screening Levels		Residential Soil	NE	23,500	3,590	NE
		Construction Worker	NE	92,900	150	NE
Monsanto Lane						
ML-CL-1	12/15/2014	0-6	240	6080	44.3	256
	12/15/2014	6-12	247	4080	43.9	159
ML-N-1	12/15/2014	0-6	111	2770	18.8	647
ML-S-1	12/15/2014	0-6	288	5560	30.5	459
ML-BG-1	12/15/2014	1	55.0	3260	26.3	103
ML-CL-2	12/15/2014	0-6	100	3670	29.4	355
	12/15/2014	6-12	275	2050	19.0	1480
ML-N-2	12/15/2014	0-6	96.7	2920	24.1	177
ML-S-2	12/15/2014	0-6	93.4	2590	22.9	700
ML-BG-2	12/15/2014	1	<25.0	1960	16.0	34.7
ML-CL-3	12/15/2014	0-6	336	3330	30	476
	12/15/2014	6-12	288	4990	45.8	130
ML-N-3	12/15/2014	0-6	144	3500	30.0	242
ML-S-3	12/15/2014	0-6	395	6330	35.6	1730
ML-BG-3	12/15/2014	1	60.8	4720	23.7	82.8
ML-CL-4	12/15/2014	0-6	216	3670	30	1240
	12/15/2014	6-12	267	3870	34.1	807
ML-N-4	12/15/2014	0-6	290	5530	37.8	1060
ML-S-4	12/15/2014	0-6	400	4040	34.3	571
ML-BG-4	12/15/2014	1	26.9	3260	31.3	43.4
ML-CL-5	12/15/2014	0-6	80	2710	26.8	360
	12/15/2014	6-12	184	4140	41.2	140
ML-N-5	12/15/2014	0-6	90.6	2360	18.5	523
ML-S-5	12/15/2014	0-6	72.2	1470	12.8	291
ML-BG-5	12/15/2014	1	<25.0	1100	12.5	46.2
ML-CL-6	12/15/2014	0-6	570	2750	24	9040
	12/15/2014	6-12	575	2740	23.1	8420
ML-N-6	12/15/2014	0-6	285	3450	28.7	2480
ML-S-6	12/15/2014	0-6	62.2	3410	26.2	1660
ML-BG-6	12/15/2014	1	<25.0	3130	26.6	57.7

TABLE 1
ENTERPRISE PERMAIN EXPANSION (Salt Lake Hydrotest Water)
SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Depth (inches)	Chloride (mg/kg)	Iron (mg/kg)	Manganese (mg/kg)	Sulfate (mg/kg)
New Mexico Environment Department Soil Screening Levels		Residential Soil	NE	23,500	3,590	NE
		Construction Worker	NE	92,900	150	NE
Monsanto Lane						
ML-CL-7	12/15/2014	0-6	86.5	2180	18.3	9810
ML-CL-7	12/15/2014	6-12	380	6220	64.1	613
ML-N-7	12/15/2014	0-6	63.1	4760	53.3	501
ML-S-7	12/15/2014	0-6	204	2750	20.8	3270
ML-BG-7	12/15/2014	1	93.4	2500	24.9	248
ML-CL-8	12/15/2014	0-6	107	4270	51.7	667
	12/15/2014	6-12	76.4	5580	63.3	466
ML-N-8	12/15/2014	0-6	609	4890	35.7	1600
ML-S-8	12/15/2014	0-6	34.4	4920	53.0	120
ML-BG-8	12/15/2014	1	<25.0	3390	23.7	106
ML-CL-9	12/15/2014	0-6	72.9	3290	34.7	348
	12/15/2014	6-12	85.9	5750	66.2	37.2
ML-N-9	12/15/2014	0-6	156	3550	31.3	1160
ML-S-9	12/15/2014	0-6	166	2910	18.5	2770
ML-BG-9	12/15/2014	1	<25.0	3420	24.6	41.4
ML-CL-10	12/15/2014	0-6	740	3950	31.0	414
	12/15/2014	6-12	825	4990	42.7	191
ML-N-10	12/15/2014	0-6	66.1	4230	24.8	1180
ML-S-10	12/15/2014	0-6	193	3090	23.3	1870
ML-BG-10	12/15/2014	1	<25.0	5900	60.7	67.6
ML-CL-11	12/15/2014	0-6	234	3570	29.5	1230
	12/15/2014	6-12	115	2520	21.6	188
ML-N-11	12/15/2014	0-6	140	3110	22.4	286
ML-S-11	12/15/2014	0-6	51.6	2240	16.0	1870
ML-BG-11	12/15/2014	1	26.5	4070	39.3	43.7
ML-CL-12	12/15/2014	0-6	139	4050	32.6	325
	12/15/2014	6-12	142	3460	35.7	80.8
ML-N-12	12/15/2014	0-6	31.2	3180	25.1	172
ML-S-12	12/15/2014	0-6	31.0	2870	29.2	106
ML-BG-12	12/15/2014	1	<25.0	3030	30.8	29.1

TABLE 1
ENTERPRISE PERMAIN EXPANSION (Salt Lake Hydrotest Water)
SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Depth (inches)	Chloride (mg/kg)	Iron (mg/kg)	Manganese (mg/kg)	Sulfate (mg/kg)
New Mexico Environment Department Soil Screening Levels		Residential Soil	NE	23,500	3,590	NE
		Construction Worker	NE	92,900	150	NE
Monsanto Lane						
ML-CL-13	12/15/2014	0-6	45.9	2060	18.9	168
	12/15/2014	6-12	181	2090	17.6	1610
ML-N-13	12/15/2014	0-6	218	3080	31.2	1110
ML-S-13	12/15/2014	0-6	277	2990	26.8	1740
ML-BG-13	12/15/2014	1	<25.0	3760	36.6	113
ML-CL-14	12/15/2014	0-6	83.3	2970	27.8	730
	12/15/2014	6-12	72.6	3660	33.0	58.5
ML-N-14	12/15/2014	0-6	215	3440	25.8	824
ML-S-14	12/15/2014	0-6	130	2740	21.0	1630
ML-BG-14	12/15/2014	1	<25.0	4040	36.9	29.4
ML-CL-15	12/15/2014	0-6	54.3	2770	25.7	50.5
	12/15/2014	6-12	<25.0	2510	25.4	<25.0
ML-N-15	12/15/2014	0-6	60.0	3270	30.3	109
ML-S-15	12/15/2014	0-6	277	2580	21.5	690
ML-BG-15	12/15/2014	1	<25.0	2880	27.2	<25.0
ML-CL-16	12/15/2014	0-6	336	4490	33.5	1770
	12/15/2014	6-12	26.3	3410	36.4	126
ML-N-16	12/15/2014	0-6	65.4	3060	26.6	1610
ML-S-16	12/15/2014	0-6	95.8	3100	28.8	287
ML-BG-16	12/15/2014	1	<25.0	3050	34.2	<25.0
ML-CL-17	12/15/2014	0-6	216	3720	31.3	331
	12/15/2014	6-12	28.8	3320	36.5	45.9
ML-N-17	12/15/2014	0-6	83.5	2780	22.2	356
ML-S-17	12/15/2014	0-6	307	2600	22.9	1510
ML-BG-17	12/15/2014	1	<25.0	2920	31.9	31.1
ML-CL-18	12/15/2014	0-6	573	3940	32.2	1750
	12/15/2014	6-12	740	3740	34.4	232
ML-N-18	12/15/2014	0-6	101	2910	22.7	655
ML-S-18	12/15/2014	0-6	402	3380	24.2	1020
ML-BG-18	12/15/2014	1	<25.0	3980	41.6	62.2

TABLE 1
ENTERPRISE PERMAIN EXPANSION (Salt Lake Hydrotest Water)
SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Depth (inches)	Chloride (mg/kg)	Iron (mg/kg)	Manganese (mg/kg)	Sulfate (mg/kg)
New Mexico Environment Department Soil Screening Levels		Residential Soil	NE	23,500	3,590	NE
		Construction Worker	NE	92,900	150	NE
Monsanto Lane						
ML-CL-19	12/15/2014	0-6	198	3480	30.7	336
	12/15/2014	6-12	94.2	3220	26.4	63.3
ML-N-19	12/15/2014	0-6	168	4140	29.1	1000
ML-S-19	12/15/2014	0-6	90.2	2520	17.9	1890
ML-BG-19	12/15/2014	1	<25.0	2960	26.0	29.5
ML-CL-20	12/15/2014	0-6	244	3830	28.7	1300
	12/15/2014	6-12	480	3610	31.7	1080
ML-N-20	12/15/2014	0-6	140	3900	28.8	1120
ML-S-20	12/15/2014	0-6	163	4650	38.5	1180
ML-BG-20	12/15/2014	1	<25.0	2370	24.8	<25.0
ML-CL-21	12/15/2014	0-6	1310	5440	42.9	747
	12/15/2014	6-12	688	3650	29.5	263
ML-N-21	12/15/2014	0-6	105	3130	23.4	1900
ML-S-21	12/15/2014	0-6	188	2970	21.2	1740
ML-BG-21	12/15/2014	1	<25.0	3360	28.8	<25.0
ML-CL-22	12/15/2014	0-6	<25.0	3690	31.9	37.3
	12/15/2014	6-12	<25.0	3550	33.0	25.1
ML-N-22	12/15/2014	0-6	26.0	2550	19.5	296
ML-S-22	12/15/2014	0-6	31.2	2160	16.9	106
ML-BG-22	12/15/2014	1	<25.0	3940	41.0	44.2

APPENDIX C

Laboratory Data Reports & Chain-of-Custody Documentation

TRACEANALYSIS, INC.
6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
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Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

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Report Date: January 14, 2015

Work Order: 14121803

Project Name: Enterprise Permian Expansion
Project Number: 7020114G292

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

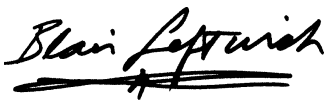
Sample	Description	Matrix	Date Taken	Time Taken	Date Received
382694	ML-CL-1 0-6 in	soil	2014-12-15	11:08	2014-12-16
382695	ML-CL-1 6-12	soil	2014-12-15	11:18	2014-12-16
382696	ML-N-1 0-6 in	soil	2014-12-15	10:50	2014-12-16
382697	ML-S-1 0-6 in	soil	2014-12-15	11:15	2014-12-16
382698	ML-BG-1 1 in	soil	2014-12-15	11:03	2014-12-16
382699	ML-CL-2 0-6 in	soil	2014-12-15	11:21	2014-12-16
382700	ML-CL-2 6-12	soil	2014-12-15	11:26	2014-12-16
382701	ML-N-2 0-6 in	soil	2014-12-15	11:37	2014-12-16
382702	ML-S-2 0-6 in	soil	2014-12-15	11:35	2014-12-16
382703	ML-BG 2 1 in	soil	2014-12-15	11:33	2014-12-16
382704	ML-CL-3 0-6 in	soil	2014-12-15	11:45	2014-12-16
382705	ML-CL-3 6-12	soil	2014-12-15	11:50	2014-12-16
382706	ML-N-3 0-6 in	soil	2014-12-15	11:59	2014-12-16
382707	ML-S-3 0-6 in	soil	2014-12-15	11:54	2014-12-16
382708	ML-BG-3 1 in	soil	2014-12-15	11:57	2014-12-16
382709	ML-CL-4 0-6 in	soil	2014-12-15	12:07	2014-12-16
382710	ML-CL-4 6-12	soil	2014-12-15	12:10	2014-12-16
382711	ML-N-4 0-6 in	soil	2014-12-15	12:19	2014-12-16

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
382712	ML-S-4 0-6 in	soil	2014-12-15	12:16	2014-12-16
382713	ML-BG-4 1 in	soil	2014-12-15	12:11	2014-12-16
382714	ML-CL-5 0-6 in	soil	2014-12-15	12:30	2014-12-16
382715	ML-CL-5 6-12	soil	2014-12-15	12:32	2014-12-16
382716	ML-N-5 0-6 in	soil	2014-12-15	12:40	2014-12-16
382717	ML-S-5 0-6 in	soil	2014-12-15	12:37	2014-12-16
382718	ML-BG-5 1 in	soil	2014-12-15	12:31	2014-12-16
382719	ML-CL-6 0-6 in	soil	2014-12-15	12:54	2014-12-16
382720	ML-CL-6 6-12	soil	2014-12-15	12:57	2014-12-16
382721	ML-N-6 0-6 in	soil	2014-12-15	13:02	2014-12-16
382722	ML-S-6 0-6 in	soil	2014-12-15	13:05	2014-12-16
382723	ML-BG-6 1 in	soil	2014-12-15	12:51	2014-12-16
382724	ML-CL-7 0-6 in	soil	2014-12-15	13:18	2014-12-16
382725	ML-CL-7 6-12	soil	2014-12-15	13:22	2014-12-16
382726	ML-N-7 0-6 in	soil	2014-12-15	13:29	2014-12-16
382727	ML-S-7 0-6 in	soil	2014-12-15	13:25	2014-12-16
382728	ML-BG-7 1 in	soil	2014-12-15	13:20	2014-12-16
382729	ML-CL-8 0-6 in	soil	2014-12-15	13:35	2014-12-16
382730	ML-CL-8 6-12	soil	2014-12-15	13:40	2014-12-16
382731	ML-N-8 0-6 in	soil	2014-12-15	13:49	2014-12-16
382732	ML-S-8 0-6 in	soil	2014-12-15	13:45	2014-12-16
382733	ML-BG-8 1 in	soil	2014-12-15	13:44	2014-12-16
382734	ML-CL-9 0-6 in	soil	2014-12-15	13:58	2014-12-16
382735	ML-CL-9 6-12	soil	2014-12-15	14:03	2014-12-16
382736	ML-N-9 0-6 in	soil	2014-12-15	14:09	2014-12-16
382737	ML-S-9 0-6 in	soil	2014-12-15	14:06	2014-12-16
382738	ML-BG-9 1 in	soil	2014-12-15	14:02	2014-12-16
382739	ML-CL-10 0-6 in	soil	2014-12-15	14:24	2014-12-16
382740	ML-CL-10 6-12	soil	2014-12-15	14:30	2014-12-16
382741	ML-N-10 0-6 in	soil	2014-12-15	14:32	2014-12-16
382742	ML-S-10 0-6 in	soil	2014-12-15	14:34	2014-12-16
382743	ML-BG-10 1 in	soil	2014-12-15	14:23	2014-12-16
382744	ML-CL-11 0-6 in	soil	2014-12-15	14:45	2014-12-16
382745	ML-CL-11 6-12in	soil	2014-12-15	14:27	2014-12-16
382746	ML-N-11 0-6 in	soil	2014-12-15	14:42	2014-12-16
382747	ML-S-11 0-6 in	soil	2014-12-15	14:49	2014-12-16
382748	ML-BG-11 1 in	soil	2014-12-15	14:46	2014-12-16
382749	ML-CL-12 0-6 in	soil	2014-12-15	14:58	2014-12-16
382750	ML-CL-12 6-12 in	soil	2014-12-15	15:03	2014-12-16
382751	ML-N-12 0-6 in	soil	2014-12-15	15:02	2014-12-16
382752	ML-S-12 0-6 in	soil	2014-12-15	15:05	2014-12-16
382753	ML-BG-12	soil	2014-12-15	15:00	2014-12-16
382754	ML-CL-13 0-6 in	soil	2014-12-15	15:15	2014-12-16
382755	ML-CL-13 6-12	soil	2014-12-15	15:18	2014-12-16
382756	ML-N-13 0-6 in	soil	2014-12-15	15:21	2014-12-16
382757	ML-S-13 0-6 in	soil	2014-12-15	15:19	2014-12-16

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
382758	ML-BG-13 1 in	soil	2014-12-15	15:17	2014-12-16
382759	ML-CL-14 0-6 in	soil	2014-12-15	15:28	2014-12-16
382760	ML-CL-14 6-12	soil	2014-12-15	15:29	2014-12-16
382761	ML-N-14 0-6 in	soil	2014-12-15	15:33	2014-12-16
382762	ML-s-14 0-6 in	soil	2014-12-15	15:31	2014-12-16
382763	ML-BG-14 1 in	soil	2014-12-15	15:32	2014-12-16
382764	ML-CL-15 0-6 in	soil	2014-12-15	15:39	2014-12-16
382765	ML-CL-15 6-12	soil	2014-12-15	15:43	2014-12-16
382766	ML-N-15 0-6 in	soil	2014-12-15	15:37	2014-12-16
382767	ML-S-15 0-6 in	soil	2014-12-15	15:45	2014-12-16
382768	ML-BG-15 1 in	soil	2014-12-15	15:44	2014-12-16
382769	ML-CL-16 0-6 in	soil	2014-12-15	15:54	2014-12-16
382770	ML-CL-16 6-12	soil	2014-12-15	15:57	2014-12-16
382771	ML-N-16 0-6 in	soil	2014-12-15	16:01	2014-12-16
382772	ML-S-16 0-6 in	soil	2014-12-15	15:39	2014-12-16
382773	ML-BG-16 1 in	soil	2014-12-15	15:55	2014-12-16
382774	ML-CL-17 0-6 in	soil	2014-12-15	16:07	2014-12-16
382775	ML-CL-17 6-12	soil	2014-12-15	16:11	2014-12-16
382776	ML-N-17 0-6 in	soil	2014-12-15	16:14	2014-12-16
382777	ML-S-17 0-6 in	soil	2014-12-15	16:13	2014-12-16
382778	ML-BG-17 1 in	soil	2014-12-15	16:09	2014-12-16
382779	ML-CL-18 0-6 in	soil	2014-12-15	16:22	2014-12-16
382780	ML-CL-18 6-12	soil	2014-12-15	16:23	2014-12-16
382781	ML-N-18 0-6 in	soil	2014-12-15	16:26	2014-12-16
382782	ML-S-18 0-6 in	soil	2014-12-15	16:25	2014-12-16
382783	ML-BG-18 1 in	soil	2014-12-15	16:27	2014-12-16
382784	ML-CL-20 0-6 in	soil	2014-12-15	16:46	2014-12-16
382785	ML-CL-20 6-12	soil	2014-12-15	16:48	2014-12-16
382786	ML-N-20 0-6 in	soil	2014-12-15	16:50	2014-12-16
382787	ML-S-20 0-6 in	soil	2014-12-15	16:49	2014-12-16
382788	ML-BG-20 1 in	soil	2014-12-15	16:51	2014-12-16
382789	ML-CL-19 0-6 in	soil	2014-12-15	16:36	2014-12-16
382790	ML-CL-19 6-12	soil	2014-12-15	16:37	2014-12-16
382791	ML-N-19 0-6 in	soil	2014-12-15	16:34	2014-12-16
382792	ML-S-19 0-6 in	soil	2014-12-15	16:38	2014-12-16
382793	ML-BG-19 1 in	soil	2014-12-15	16:39	2014-12-16
382794	ML-CL-21 0-6 in	soil	2014-12-15	16:58	2014-12-16
382795	ML-CL-21 6-12	soil	2014-12-15	16:59	2014-12-16
382796	ML-N-21 0-6 in	soil	2014-12-15	17:01	2014-12-16
382797	ML-S-21 0-6 in	soil	2014-12-15	17:00	2014-12-16
382798	ML-BG-21 1 in	soil	2014-12-15	17:02	2014-12-16
382799	ML-CL-22 0-6 in	soil	2014-12-15	17:01	2014-12-16
382800	ML-CL-22 6-12	soil	2014-12-15	17:10	2014-12-16
382801	ML-N-22 0-6 in	soil	2014-12-15	17:11	2014-12-16
382802	ML-S-22 0-6 in	soil	2014-12-15	17:13	2014-12-16
382803	ML-BG-22 1 in	soil	2014-12-15	17:12	2014-12-16

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 189 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.



Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Brian Pellam, Operations Manager

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Case Narrative

Samples for project Enterprise Permian Expansion were received by TraceAnalysis, Inc. on 2014-12-16 and assigned to work order 14121803. Samples for work order 14121803 were received intact at a temperature of 4.8 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	100147	2015-01-05 at 11:00	118437	2015-01-05 at 12:11
Chloride (IC)	E 300.0	100150	2015-01-05 at 11:00	118438	2015-01-05 at 17:20
Chloride (IC)	E 300.0	100151	2015-01-05 at 11:00	118439	2015-01-05 at 11:00
Chloride (IC)	E 300.0	100152	2015-01-05 at 11:00	118442	2015-01-05 at 17:20
Chloride (IC)	E 300.0	100220	2015-01-06 at 12:00	118531	2015-01-06 at 15:06
Chloride (IC)	E 300.0	100222	2015-01-06 at 12:00	118533	2015-01-06 at 15:06
Chloride (IC)	E 300.0	100223	2015-01-06 at 12:00	118536	2015-01-08 at 15:06
Chloride (IC)	E 300.0	100249	2015-01-09 at 13:05	118564	2015-01-09 at 17:03
Chloride (IC)	E 300.0	100250	2015-01-09 at 13:05	118565	2015-01-09 at 17:03
Chloride (IC)	E 300.0	100268	2015-01-12 at 13:30	118588	2015-01-12 at 14:16
Chloride (IC)	E 300.0	100269	2015-01-12 at 13:30	118589	2015-01-12 at 14:16
Chloride (IC)	E 300.0	100270	2015-01-12 at 13:30	118590	2015-01-12 at 14:16
Chloride (IC)	E 300.0	100297	2015-01-13 at 14:00	118620	2015-01-13 at 17:12
Chloride (IC)	E 300.0	100314	2015-01-14 at 08:00	118639	2015-01-14 at 08:44
Fe, Total	S 6010C	100003	2014-12-28 at 13:59	118464	2015-01-07 at 13:30
Fe, Total	S 6010C	100016	2014-12-29 at 11:54	118479	2015-01-08 at 08:47
Fe, Total	S 6010C	100017	2014-12-29 at 11:55	118527	2015-01-08 at 15:29
Fe, Total	S 6010C	100052	2014-12-30 at 11:11	118551	2015-01-09 at 14:22
Fe, Total	S 6010C	100054	2014-12-30 at 11:47	118574	2015-01-09 at 12:02
Fe, Total	S 6010C	100094	2015-01-05 at 11:25	118490	2015-01-07 at 15:42
Mn, Total	S 6010C	100003	2014-12-28 at 13:59	118428	2015-12-31 at 16:55
Mn, Total	S 6010C	100016	2014-12-29 at 11:54	118470	2015-01-07 at 14:38
Mn, Total	S 6010C	100017	2014-12-29 at 11:55	118482	2015-01-08 at 10:25
Mn, Total	S 6010C	100052	2014-12-30 at 11:11	118484	2015-01-08 at 10:56
Mn, Total	S 6010C	100054	2014-12-30 at 11:47	118486	2015-01-08 at 11:14
Mn, Total	S 6010C	100094	2015-01-05 at 11:25	118489	2015-01-07 at 15:42
SO4 (IC)	E 300.0	100147	2015-01-05 at 11:00	118437	2015-01-05 at 12:11
SO4 (IC)	E 300.0	100150	2015-01-05 at 11:00	118438	2015-01-05 at 17:20
SO4 (IC)	E 300.0	100151	2015-01-05 at 11:00	118439	2015-01-05 at 11:00
SO4 (IC)	E 300.0	100152	2015-01-05 at 11:00	118442	2015-01-05 at 17:20
SO4 (IC)	E 300.0	100220	2015-01-06 at 12:00	118531	2015-01-06 at 15:06
SO4 (IC)	E 300.0	100222	2015-01-06 at 12:00	118533	2015-01-06 at 15:06
SO4 (IC)	E 300.0	100223	2015-01-06 at 12:00	118536	2015-01-08 at 15:06
SO4 (IC)	E 300.0	100249	2015-01-09 at 13:05	118564	2015-01-09 at 17:03
SO4 (IC)	E 300.0	100250	2015-01-09 at 13:05	118565	2015-01-09 at 17:03
SO4 (IC)	E 300.0	100268	2015-01-12 at 13:30	118588	2015-01-12 at 14:16
SO4 (IC)	E 300.0	100269	2015-01-12 at 13:30	118589	2015-01-12 at 14:16
SO4 (IC)	E 300.0	100270	2015-01-12 at 13:30	118590	2015-01-12 at 14:16

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
SO4 (IC)	E 300.0	100297	2015-01-13 at 14:00	118620	2015-01-13 at 17:12
SO4 (IC)	E 300.0	100314	2015-01-14 at 08:00	118639	2015-01-14 at 08:44

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 14121803 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 382694 - ML-CL-1 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118565	Date Analyzed:	2015-01-09	Analyzed By:	RL
Prep Batch:	100250	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**240**	mg/Kg	2	25.0

Sample: 382694 - ML-CL-1 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118464	Date Analyzed:	2015-01-07	Analyzed By:	RR
Prep Batch:	100003	Sample Preparation:	2014-12-29	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**6080**	mg/Kg	100	0.500

Sample: 382694 - ML-CL-1 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118428	Date Analyzed:	2015-12-31	Analyzed By:	LM
Prep Batch:	100003	Sample Preparation:	2014-12-29	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**44.3**	mg/Kg	1	2.00

Sample: 382694 - ML-CL-1 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118565	Date Analyzed:	2015-01-09	Analyzed By:	RL
Prep Batch:	100250	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Sulfate		3,4,5	**256**		mg/Kg	2	25.0

Sample: 382695 - ML-CL-1 6-12

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118565	Date Analyzed:	2015-01-09	Analyzed By:	RL
Prep Batch:	100250	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Chloride		3,4,5	**247**		mg/Kg	2	25.0

Sample: 382695 - ML-CL-1 6-12

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118464	Date Analyzed:	2015-01-07	Analyzed By:	RR
Prep Batch:	100003	Sample Preparation:	2014-12-29	Prepared By:	RR

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**4080**		mg/Kg	100	0.500

Sample: 382695 - ML-CL-1 6-12

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118428	Date Analyzed:	2015-12-31	Analyzed By:	LM
Prep Batch:	100003	Sample Preparation:	2014-12-29	Prepared By:	LM

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**43.9**		mg/Kg	1	2.00

Sample: 382695 - ML-CL-1 6-12

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118565	Date Analyzed:	2015-01-09	Analyzed By:	RL
Prep Batch:	100250	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**159**	mg/Kg	2	25.0

Sample: 382696 - ML-N-1 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118588	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100268	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**111**	mg/Kg	1	25.0

Sample: 382696 - ML-N-1 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118464	Date Analyzed:	2015-01-07	Analyzed By:	RR
Prep Batch:	100003	Sample Preparation:	2014-12-29	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**2770**	mg/Kg	100	0.500

Sample: 382696 - ML-N-1 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118428	Date Analyzed:	2015-12-31	Analyzed By:	LM
Prep Batch:	100003	Sample Preparation:	2014-12-29	Prepared By:	LM

continued . . .

sample 382696 continued . . .

Parameter	Flag	Cert	RL Result	Units	Dilution	RL

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**18.8**	mg/Kg	1	2.00

Sample: 382696 - ML-N-1 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118565	Date Analyzed:	2015-01-09	Analyzed By:	RL
Prep Batch:	100250	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Sulfate		3,4,5	**647**	mg/Kg	2	25.0

Sample: 382697 - ML-S-1 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118565	Date Analyzed:	2015-01-09	Analyzed By:	RL
Prep Batch:	100250	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride		3,4,5	**288**	mg/Kg	5	25.0

Sample: 382697 - ML-S-1 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118464	Date Analyzed:	2015-01-07	Analyzed By:	RR
Prep Batch:	100003	Sample Preparation:	2014-12-29	Prepared By:	RR

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**5560**	mg/Kg	100	0.500

Sample: 382697 - ML-S-1 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118428	Date Analyzed:	2015-12-31	Analyzed By:	LM
Prep Batch:	100003	Sample Preparation:	2014-12-29	Prepared By:	LM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**30.5**	mg/Kg	1	2.00

Sample: 382697 - ML-S-1 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118565	Date Analyzed:	2015-01-09	Analyzed By:	RL
Prep Batch:	100250	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Sulfate		3,4,5	**459**	mg/Kg	5	25.0

Sample: 382698 - ML-BG-1 1 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118565	Date Analyzed:	2015-01-09	Analyzed By:	RL
Prep Batch:	100250	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride		3,4,5	**55.0**	mg/Kg	1	25.0

Sample: 382698 - ML-BG-1 1 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118464	Date Analyzed:	2015-01-07	Analyzed By:	RR
Prep Batch:	100003	Sample Preparation:	2014-12-29	Prepared By:	RR

continued . . .

sample 382698 continued . . .

Parameter	Flag	Cert	RL Result	Units	Dilution	RL

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**3260**	mg/Kg	100	0.500

Sample: 382698 - ML-BG-1 1 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118428	Date Analyzed:	2015-12-31	Analyzed By:	LM
Prep Batch:	100003	Sample Preparation:	2014-12-29	Prepared By:	LM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**26.3**	mg/Kg	1	2.00

Sample: 382698 - ML-BG-1 1 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118565	Date Analyzed:	2015-01-09	Analyzed By:	RL
Prep Batch:	100250	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Sulfate		3,4,5	**103**	mg/Kg	1	25.0

Sample: 382699 - ML-CL-2 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118565	Date Analyzed:	2015-01-09	Analyzed By:	RL
Prep Batch:	100250	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride		3,4,5	**100**	mg/Kg	2	25.0

Sample: 382699 - ML-CL-2 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118464	Date Analyzed:	2015-01-07	Analyzed By:	RR
Prep Batch:	100003	Sample Preparation:	2014-12-29	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**3670**	mg/Kg	100	0.500

Sample: 382699 - ML-CL-2 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118428	Date Analyzed:	2015-12-31	Analyzed By:	LM
Prep Batch:	100003	Sample Preparation:	2014-12-29	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**29.4**	mg/Kg	1	2.00

Sample: 382699 - ML-CL-2 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118565	Date Analyzed:	2015-01-09	Analyzed By:	RL
Prep Batch:	100250	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**355**	mg/Kg	2	25.0

Sample: 382700 - ML-CL-2 6-12

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118565	Date Analyzed:	2015-01-09	Analyzed By:	RL
Prep Batch:	100250	Sample Preparation:		Prepared By:	RL

continued . . .

sample 382700 continued . . .

Parameter	Flag	Cert	RL Result	Units	Dilution	RL

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride		3,4,5	**275**	mg/Kg	5	25.0

Sample: 382700 - ML-CL-2 6-12

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118464	Date Analyzed:	2015-01-07	Analyzed By:	RR
Prep Batch:	100003	Sample Preparation:	2014-12-29	Prepared By:	RR

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**2050**	mg/Kg	100	0.500

Sample: 382700 - ML-CL-2 6-12

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118428	Date Analyzed:	2015-12-31	Analyzed By:	LM
Prep Batch:	100003	Sample Preparation:	2014-12-29	Prepared By:	LM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**19.0**	mg/Kg	1	2.00

Sample: 382700 - ML-CL-2 6-12

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118565	Date Analyzed:	2015-01-09	Analyzed By:	RL
Prep Batch:	100250	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Sulfate		3,4,5	**1480**	mg/Kg	5	25.0

Sample: 382701 - ML-N-2 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118565	Date Analyzed:	2015-01-09	Analyzed By:	RL
Prep Batch:	100250	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**96.7**	mg/Kg	1	25.0

Sample: 382701 - ML-N-2 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118464	Date Analyzed:	2015-01-07	Analyzed By:	RR
Prep Batch:	100003	Sample Preparation:	2014-12-29	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**2920**	mg/Kg	100	0.500

Sample: 382701 - ML-N-2 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118428	Date Analyzed:	2015-12-31	Analyzed By:	LM
Prep Batch:	100003	Sample Preparation:	2014-12-29	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**24.1**	mg/Kg	1	2.00

Sample: 382701 - ML-N-2 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118565	Date Analyzed:	2015-01-09	Analyzed By:	RL
Prep Batch:	100250	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**177**	mg/Kg	1	25.0

Sample: 382702 - ML-S-2 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118588	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100268	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**93.4**	mg/Kg	1	25.0

Sample: 382702 - ML-S-2 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118464	Date Analyzed:	2015-01-07	Analyzed By:	RR
Prep Batch:	100003	Sample Preparation:	2014-12-29	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**2590**	mg/Kg	100	0.500

Sample: 382702 - ML-S-2 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118428	Date Analyzed:	2015-12-31	Analyzed By:	LM
Prep Batch:	100003	Sample Preparation:	2014-12-29	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**22.9**	mg/Kg	1	2.00

Sample: 382702 - ML-S-2 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118565	Date Analyzed:	2015-01-09	Analyzed By:	RL
Prep Batch:	100250	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**700**	mg/Kg	5	25.0

Sample: 382703 - ML-BG 2 1 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118565	Date Analyzed:	2015-01-09	Analyzed By:	RL
Prep Batch:	100250	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	<25.0	mg/Kg	1	25.0

Sample: 382703 - ML-BG 2 1 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118464	Date Analyzed:	2015-01-07	Analyzed By:	RR
Prep Batch:	100003	Sample Preparation:	2014-12-29	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**1960**	mg/Kg	100	0.500

Sample: 382703 - ML-BG 2 1 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118428	Date Analyzed:	2015-12-31	Analyzed By:	LM
Prep Batch:	100003	Sample Preparation:	2014-12-29	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**16.0**	mg/Kg	1	2.00

Sample: 382703 - ML-BG 2 1 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118565	Date Analyzed:	2015-01-09	Analyzed By:	RL
Prep Batch:	100250	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**34.7**	mg/Kg	1	25.0

Sample: 382704 - ML-CL-3 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118588	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100268	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	Units	Dilution	RL
Chloride		3,4,5	**336**	mg/Kg	2	25.0

Sample: 382704 - ML-CL-3 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118464	Date Analyzed:	2015-01-07	Analyzed By:	RR
Prep Batch:	100003	Sample Preparation:	2014-12-29	Prepared By:	RR

Parameter	Flag	Cert	Result	Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**3330**	mg/Kg	100	0.500

Sample: 382704 - ML-CL-3 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118428	Date Analyzed:	2015-12-31	Analyzed By:	LM
Prep Batch:	100003	Sample Preparation:	2014-12-29	Prepared By:	LM

Parameter	Flag	Cert	Result	Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**30.0**	mg/Kg	1	2.00

Sample: 382704 - ML-CL-3 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118588	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100268	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	Units	Dilution	RL
Sulfate		3,4,5	**476**	mg/Kg	2	25.0

Sample: 382705 - ML-CL-3 6-12

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118588	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100268	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**288**	mg/Kg	2	25.0

Sample: 382705 - ML-CL-3 6-12

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118464	Date Analyzed:	2015-01-07	Analyzed By:	RR
Prep Batch:	100003	Sample Preparation:	2014-12-29	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**4990**	mg/Kg	100	0.500

Sample: 382705 - ML-CL-3 6-12

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118428	Date Analyzed:	2015-12-31	Analyzed By:	LM
Prep Batch:	100003	Sample Preparation:	2014-12-29	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**45.8**	mg/Kg	1	2.00

Sample: 382705 - ML-CL-3 6-12

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118588	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100268	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**130**	mg/Kg	2	25.0

Sample: 382706 - ML-N-3 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118588	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100268	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**144**	mg/Kg	1	25.0

Sample: 382706 - ML-N-3 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118464	Date Analyzed:	2015-01-07	Analyzed By:	RR
Prep Batch:	100003	Sample Preparation:	2014-12-29	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**3500**	mg/Kg	100	0.500

Sample: 382706 - ML-N-3 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118428	Date Analyzed:	2015-12-31	Analyzed By:	LM
Prep Batch:	100003	Sample Preparation:	2014-12-29	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**30.0**	mg/Kg	1	2.00

Sample: 382706 - ML-N-3 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118588	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100268	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**242**	mg/Kg	1	25.0

Sample: 382707 - ML-S-3 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118588	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100268	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**395**	mg/Kg	5	25.0

Sample: 382707 - ML-S-3 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118464	Date Analyzed:	2015-01-07	Analyzed By:	RR
Prep Batch:	100003	Sample Preparation:	2014-12-29	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**6330**	mg/Kg	100	0.500

Sample: 382707 - ML-S-3 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118428	Date Analyzed:	2015-12-31	Analyzed By:	LM
Prep Batch:	100003	Sample Preparation:	2014-12-29	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**35.6**	mg/Kg	1	2.00

Sample: 382707 - ML-S-3 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118588	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100268	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**1730**	mg/Kg	5	25.0

Sample: 382708 - ML-BG-3 1 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118588	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100268	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**60.8**	mg/Kg	1	25.0

Sample: 382708 - ML-BG-3 1 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118464	Date Analyzed:	2015-01-07	Analyzed By:	RR
Prep Batch:	100003	Sample Preparation:	2014-12-29	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**4720**	mg/Kg	100	0.500

Sample: 382708 - ML-BG-3 1 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118428	Date Analyzed:	2015-12-31	Analyzed By:	LM
Prep Batch:	100003	Sample Preparation:	2014-12-29	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**23.7**	mg/Kg	1	2.00

Sample: 382708 - ML-BG-3 1 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118588	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100268	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**82.8**	mg/Kg	1	25.0

Sample: 382709 - ML-CL-4 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118588	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100268	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	Units	Dilution	RL
Chloride		3,4,5	**216**	mg/Kg	5	25.0

Sample: 382709 - ML-CL-4 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118464	Date Analyzed:	2015-01-07	Analyzed By:	RR
Prep Batch:	100003	Sample Preparation:	2014-12-29	Prepared By:	RR

Parameter	Flag	Cert	Result	Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**3670**	mg/Kg	100	0.500

Sample: 382709 - ML-CL-4 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118428	Date Analyzed:	2015-12-31	Analyzed By:	LM
Prep Batch:	100003	Sample Preparation:	2014-12-29	Prepared By:	LM

Parameter	Flag	Cert	Result	Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**30.0**	mg/Kg	1	2.00

Sample: 382709 - ML-CL-4 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118588	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100268	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	Units	Dilution	RL
Sulfate		3,4,5	**1240**	mg/Kg	5	25.0

Sample: 382710 - ML-CL-4 6-12

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118588	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100268	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**267**	mg/Kg	5	25.0

Sample: 382710 - ML-CL-4 6-12

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118479	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100016	Sample Preparation:	2014-12-29	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**3870**	mg/Kg	100	0.500

Sample: 382710 - ML-CL-4 6-12

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118470	Date Analyzed:	2015-01-07	Analyzed By:	RR
Prep Batch:	100016	Sample Preparation:	2014-12-29	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**34.1**	mg/Kg	1	2.00

Sample: 382710 - ML-CL-4 6-12

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118588	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100268	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**807**	mg/Kg	5	25.0

Sample: 382711 - ML-N-4 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118588	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100268	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**290**	mg/Kg	5	25.0

Sample: 382711 - ML-N-4 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118479	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100016	Sample Preparation:	2014-12-29	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**5530**	mg/Kg	100	0.500

Sample: 382711 - ML-N-4 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118470	Date Analyzed:	2015-01-07	Analyzed By:	RR
Prep Batch:	100016	Sample Preparation:	2014-12-29	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**37.8**	mg/Kg	1	2.00

Sample: 382711 - ML-N-4 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118588	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100268	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**1060**	mg/Kg	5	25.0

Sample: 382712 - ML-S-4 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118589	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100269	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**400**	mg/Kg	5	25.0

Sample: 382712 - ML-S-4 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118479	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100016	Sample Preparation:	2014-12-29	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**4040**	mg/Kg	100	0.500

Sample: 382712 - ML-S-4 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118470	Date Analyzed:	2015-01-07	Analyzed By:	RR
Prep Batch:	100016	Sample Preparation:	2014-12-29	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**34.3**	mg/Kg	1	2.00

Sample: 382712 - ML-S-4 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118589	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100269	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**571**	mg/Kg	5	25.0

Sample: 382713 - ML-BG-4 1 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118589	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100269	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**26.9**	mg/Kg	1	25.0

Sample: 382713 - ML-BG-4 1 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118479	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100016	Sample Preparation:	2014-12-29	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**3260**	mg/Kg	100	0.500

Sample: 382713 - ML-BG-4 1 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118470	Date Analyzed:	2015-01-07	Analyzed By:	RR
Prep Batch:	100016	Sample Preparation:	2014-12-29	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**31.3**	mg/Kg	1	2.00

Sample: 382713 - ML-BG-4 1 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118589	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100269	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**43.4**	mg/Kg	1	25.0

Sample: 382714 - ML-CL-5 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118589	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100269	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**80.0**	mg/Kg	2	25.0

Sample: 382714 - ML-CL-5 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118479	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100016	Sample Preparation:	2014-12-29	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**2710**	mg/Kg	100	0.500

Sample: 382714 - ML-CL-5 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118470	Date Analyzed:	2015-01-07	Analyzed By:	RR
Prep Batch:	100016	Sample Preparation:	2014-12-29	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**26.8**	mg/Kg	1	2.00

Sample: 382714 - ML-CL-5 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118589	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100269	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**360**	mg/Kg	2	25.0

Sample: 382715 - ML-CL-5 6-12

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118589	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100269	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**184**	mg/Kg	2	25.0

Sample: 382715 - ML-CL-5 6-12

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118479	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100016	Sample Preparation:	2014-12-29	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**4140**	mg/Kg	100	0.500

Sample: 382715 - ML-CL-5 6-12

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118470	Date Analyzed:	2015-01-07	Analyzed By:	RR
Prep Batch:	100016	Sample Preparation:	2014-12-29	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**41.2**	mg/Kg	1	2.00

Sample: 382715 - ML-CL-5 6-12

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118589	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100269	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**140**	mg/Kg	2	25.0

Sample: 382716 - ML-N-5 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118589	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100269	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**90.6**	mg/Kg	2	25.0

Sample: 382716 - ML-N-5 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118479	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100016	Sample Preparation:	2014-12-29	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**2360**	mg/Kg	100	0.500

Sample: 382716 - ML-N-5 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118470	Date Analyzed:	2015-01-07	Analyzed By:	RR
Prep Batch:	100016	Sample Preparation:	2014-12-29	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**18.5**	mg/Kg	1	2.00

Sample: 382716 - ML-N-5 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118589	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100269	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**523**	mg/Kg	2	25.0

Sample: 382717 - ML-S-5 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118589	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100269	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**72.2**	mg/Kg	1	25.0

Sample: 382717 - ML-S-5 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118479	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100016	Sample Preparation:	2014-12-29	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**1470**	mg/Kg	100	0.500

Sample: 382717 - ML-S-5 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118470	Date Analyzed:	2015-01-07	Analyzed By:	RR
Prep Batch:	100016	Sample Preparation:	2014-12-29	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**12.8**	mg/Kg	1	2.00

Sample: 382717 - ML-S-5 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118589	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100269	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**291**	mg/Kg	1	25.0

Sample: 382718 - ML-BG-5 1 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118589	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100269	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	<25.0	mg/Kg	1	25.0

Sample: 382718 - ML-BG-5 1 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118479	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100016	Sample Preparation:	2014-12-29	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**1100**	mg/Kg	100	0.500

Sample: 382718 - ML-BG-5 1 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118470	Date Analyzed:	2015-01-07	Analyzed By:	RR
Prep Batch:	100016	Sample Preparation:	2014-12-29	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**12.5**	mg/Kg	1	2.00

Sample: 382718 - ML-BG-5 1 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118589	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100269	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**46.2**	mg/Kg	1	25.0

Sample: 382719 - ML-CL-6 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118620	Date Analyzed:	2015-01-13	Analyzed By:	RL
Prep Batch:	100297	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**570**	mg/Kg	5	25.0

Sample: 382719 - ML-CL-6 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118479	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100016	Sample Preparation:	2014-12-29	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**2750**	mg/Kg	100	0.500

Sample: 382719 - ML-CL-6 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118470	Date Analyzed:	2015-01-07	Analyzed By:	RR
Prep Batch:	100016	Sample Preparation:	2014-12-29	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**24.0**	mg/Kg	1	2.00

Sample: 382719 - ML-CL-6 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118589	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100269	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**9040**	mg/Kg	50	25.0

Sample: 382720 - ML-CL-6 6-12

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118620	Date Analyzed:	2015-01-13	Analyzed By:	RL
Prep Batch:	100297	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**575**	mg/Kg	5	25.0

Sample: 382720 - ML-CL-6 6-12

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118479	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100016	Sample Preparation:	2014-12-29	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**2740**	mg/Kg	100	0.500

Sample: 382720 - ML-CL-6 6-12

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118470	Date Analyzed:	2015-01-07	Analyzed By:	RR
Prep Batch:	100016	Sample Preparation:	2014-12-29	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**23.1**	mg/Kg	1	2.00

Sample: 382720 - ML-CL-6 6-12

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118589	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100269	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**8420**	mg/Kg	50	25.0

Sample: 382721 - ML-N-6 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118589	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100269	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**285**	mg/Kg	5	25.0

Sample: 382721 - ML-N-6 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118479	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100016	Sample Preparation:	2014-12-29	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**3450**	mg/Kg	100	0.500

Sample: 382721 - ML-N-6 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118470	Date Analyzed:	2015-01-07	Analyzed By:	RR
Prep Batch:	100016	Sample Preparation:	2014-12-29	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**28.7**	mg/Kg	1	2.00

Sample: 382721 - ML-N-6 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118589	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100269	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**2480**	mg/Kg	5	25.0

Sample: 382722 - ML-S-6 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118620	Date Analyzed:	2015-01-13	Analyzed By:	RL
Prep Batch:	100297	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**62.2**	mg/Kg	1	25.0

Sample: 382722 - ML-S-6 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118479	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100016	Sample Preparation:	2014-12-29	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**3410**	mg/Kg	100	0.500

Sample: 382722 - ML-S-6 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118470	Date Analyzed:	2015-01-07	Analyzed By:	RR
Prep Batch:	100016	Sample Preparation:	2014-12-29	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**26.2**	mg/Kg	1	2.00

Sample: 382722 - ML-S-6 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118590	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100270	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**1660**	mg/Kg	5	25.0

Sample: 382723 - ML-BG-6 1 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118590	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100270	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	<25.0	mg/Kg	1	25.0

Sample: 382723 - ML-BG-6 1 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118479	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100016	Sample Preparation:	2014-12-29	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**3130**	mg/Kg	100	0.500

Sample: 382723 - ML-BG-6 1 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118470	Date Analyzed:	2015-01-07	Analyzed By:	RR
Prep Batch:	100016	Sample Preparation:	2014-12-29	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**26.6**	mg/Kg	1	2.00

Sample: 382723 - ML-BG-6 1 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118590	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100270	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**57.7**	mg/Kg	1	25.0

Sample: 382724 - ML-CL-7 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118620	Date Analyzed:	2015-01-13	Analyzed By:	RL
Prep Batch:	100297	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**86.5**	mg/Kg	1	25.0

Sample: 382724 - ML-CL-7 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118479	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100016	Sample Preparation:	2014-12-29	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**2180**	mg/Kg	100	0.500

Sample: 382724 - ML-CL-7 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118470	Date Analyzed:	2015-01-07	Analyzed By:	RR
Prep Batch:	100016	Sample Preparation:	2014-12-29	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**18.3**	mg/Kg	1	2.00

Sample: 382724 - ML-CL-7 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118590	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100270	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**9810**	mg/Kg	10	25.0

Sample: 382725 - ML-CL-7 6-12

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118590	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100270	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**380**	mg/Kg	5	25.0

Sample: 382725 - ML-CL-7 6-12

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118479	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100016	Sample Preparation:	2014-12-29	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**6220**	mg/Kg	100	0.500

Sample: 382725 - ML-CL-7 6-12

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118470	Date Analyzed:	2015-01-07	Analyzed By:	RR
Prep Batch:	100016	Sample Preparation:	2014-12-29	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**64.1**	mg/Kg	1	2.00

Sample: 382725 - ML-CL-7 6-12

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118590	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100270	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**613**	mg/Kg	5	25.0

Sample: 382726 - ML-N-7 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118590	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100270	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**63.1**	mg/Kg	2	25.0

Sample: 382726 - ML-N-7 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118479	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100016	Sample Preparation:	2014-12-29	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**4760**	mg/Kg	100	0.500

Sample: 382726 - ML-N-7 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118470	Date Analyzed:	2015-01-07	Analyzed By:	RR
Prep Batch:	100016	Sample Preparation:	2014-12-29	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**53.3**	mg/Kg	1	2.00

Sample: 382726 - ML-N-7 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118590	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100270	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**501**	mg/Kg	2	25.0

Sample: 382727 - ML-S-7 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118590	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100270	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**204**	mg/Kg	5	25.0

Sample: 382727 - ML-S-7 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118479	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100016	Sample Preparation:	2014-12-29	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**2750**	mg/Kg	100	0.500

Sample: 382727 - ML-S-7 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118470	Date Analyzed:	2015-01-07	Analyzed By:	RR
Prep Batch:	100016	Sample Preparation:	2014-12-29	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**20.8**	mg/Kg	1	2.00

Sample: 382727 - ML-S-7 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118590	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100270	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**3270**	mg/Kg	5	25.0

Sample: 382728 - ML-BG-7 1 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118590	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100270	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**93.4**	mg/Kg	2	25.0

Sample: 382728 - ML-BG-7 1 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118479	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100016	Sample Preparation:	2014-12-29	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**2500**	mg/Kg	100	0.500

Sample: 382728 - ML-BG-7 1 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118470	Date Analyzed:	2015-01-07	Analyzed By:	RR
Prep Batch:	100016	Sample Preparation:	2014-12-29	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**24.9**	mg/Kg	1	2.00

Sample: 382728 - ML-BG-7 1 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118590	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100270	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**248**	mg/Kg	2	25.0

Sample: 382729 - ML-CL-8 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118590	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100270	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	Units	Dilution	RL
Chloride		3,4,5	**107**	mg/Kg	2	25.0

Sample: 382729 - ML-CL-8 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118479	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100016	Sample Preparation:	2014-12-29	Prepared By:	RR

Parameter	Flag	Cert	Result	Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**4270**	mg/Kg	100	0.500

Sample: 382729 - ML-CL-8 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118470	Date Analyzed:	2015-01-07	Analyzed By:	RR
Prep Batch:	100016	Sample Preparation:	2014-12-29	Prepared By:	RR

Parameter	Flag	Cert	Result	Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**51.7**	mg/Kg	1	2.00

Sample: 382729 - ML-CL-8 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118590	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100270	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	Units	Dilution	RL
Sulfate		3,4,5	**667**	mg/Kg	2	25.0

Sample: 382730 - ML-CL-8 6-12

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118590	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100270	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**76.4**	mg/Kg	2	25.0

Sample: 382730 - ML-CL-8 6-12

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118527	Date Analyzed:	2015-01-08	Analyzed By:	LM
Prep Batch:	100017	Sample Preparation:	2014-12-30	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**5580**	mg/Kg	100	0.500

Sample: 382730 - ML-CL-8 6-12

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118482	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100017	Sample Preparation:	2014-12-30	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**63.3**	mg/Kg	1	2.00

Sample: 382730 - ML-CL-8 6-12

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118590	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100270	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**466**	mg/Kg	2	25.0

Sample: 382731 - ML-N-8 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118590	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100270	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Chloride		3,4,5	**609**		mg/Kg	5	25.0

Sample: 382731 - ML-N-8 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118527	Date Analyzed:	2015-01-08	Analyzed By:	LM
Prep Batch:	100017	Sample Preparation:	2014-12-30	Prepared By:	LM

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**4890**		mg/Kg	100	0.500

Sample: 382731 - ML-N-8 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118482	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100017	Sample Preparation:	2014-12-30	Prepared By:	RR

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**35.7**		mg/Kg	1	2.00

Sample: 382731 - ML-N-8 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118590	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100270	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Sulfate		3,4,5	**1600**		mg/Kg	5	25.0

Sample: 382732 - ML-S-8 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118620	Date Analyzed:	2015-01-13	Analyzed By:	RL
Prep Batch:	100297	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**34.4**	mg/Kg	1	25.0

Sample: 382732 - ML-S-8 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118527	Date Analyzed:	2015-01-08	Analyzed By:	LM
Prep Batch:	100017	Sample Preparation:	2014-12-30	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**4920**	mg/Kg	100	0.500

Sample: 382732 - ML-S-8 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118482	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100017	Sample Preparation:	2014-12-30	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**53.0**	mg/Kg	1	2.00

Sample: 382732 - ML-S-8 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118620	Date Analyzed:	2015-01-13	Analyzed By:	RL
Prep Batch:	100297	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**120**	mg/Kg	1	25.0

Sample: 382733 - ML-BG-8 1 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118620	Date Analyzed:	2015-01-13	Analyzed By:	RL
Prep Batch:	100297	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	<25.0	mg/Kg	1	25.0

Sample: 382733 - ML-BG-8 1 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118527	Date Analyzed:	2015-01-08	Analyzed By:	LM
Prep Batch:	100017	Sample Preparation:	2014-12-30	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**3390**	mg/Kg	100	0.500

Sample: 382733 - ML-BG-8 1 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118482	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100017	Sample Preparation:	2014-12-30	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**23.7**	mg/Kg	1	2.00

Sample: 382733 - ML-BG-8 1 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118620	Date Analyzed:	2015-01-13	Analyzed By:	RL
Prep Batch:	100297	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**106**	mg/Kg	1	25.0

Sample: 382734 - ML-CL-9 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118639	Date Analyzed:	2015-01-14	Analyzed By:	RL
Prep Batch:	100314	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**72.9**	mg/Kg	2	25.0

Sample: 382734 - ML-CL-9 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118527	Date Analyzed:	2015-01-08	Analyzed By:	LM
Prep Batch:	100017	Sample Preparation:	2014-12-30	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**3290**	mg/Kg	100	0.500

Sample: 382734 - ML-CL-9 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118482	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100017	Sample Preparation:	2014-12-30	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**34.7**	mg/Kg	1	2.00

Sample: 382734 - ML-CL-9 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118639	Date Analyzed:	2015-01-14	Analyzed By:	RL
Prep Batch:	100314	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**348**	mg/Kg	2	25.0

Sample: 382735 - ML-CL-9 6-12

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118639	Date Analyzed:	2015-01-14	Analyzed By:	RL
Prep Batch:	100314	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**85.9**	mg/Kg	1	25.0

Sample: 382735 - ML-CL-9 6-12

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118527	Date Analyzed:	2015-01-08	Analyzed By:	LM
Prep Batch:	100017	Sample Preparation:	2014-12-30	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**5750**	mg/Kg	100	0.500

Sample: 382735 - ML-CL-9 6-12

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118482	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100017	Sample Preparation:	2014-12-30	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**66.2**	mg/Kg	1	2.00

Sample: 382735 - ML-CL-9 6-12

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118639	Date Analyzed:	2015-01-14	Analyzed By:	RL
Prep Batch:	100314	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**37.2**	mg/Kg	1	25.0

Sample: 382736 - ML-N-9 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118564	Date Analyzed:	2015-01-09	Analyzed By:	RL
Prep Batch:	100249	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**156**	mg/Kg	5	25.0

Sample: 382736 - ML-N-9 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118527	Date Analyzed:	2015-01-08	Analyzed By:	LM
Prep Batch:	100017	Sample Preparation:	2014-12-30	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**3550**	mg/Kg	100	0.500

Sample: 382736 - ML-N-9 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118482	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100017	Sample Preparation:	2014-12-30	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**31.3**	mg/Kg	1	2.00

Sample: 382736 - ML-N-9 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118564	Date Analyzed:	2015-01-09	Analyzed By:	RL
Prep Batch:	100249	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**1160**	mg/Kg	5	25.0

Sample: 382737 - ML-S-9 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118564	Date Analyzed:	2015-01-09	Analyzed By:	RL
Prep Batch:	100249	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**166**	mg/Kg	5	25.0

Sample: 382737 - ML-S-9 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118527	Date Analyzed:	2015-01-08	Analyzed By:	LM
Prep Batch:	100017	Sample Preparation:	2014-12-30	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**2910**	mg/Kg	100	0.500

Sample: 382737 - ML-S-9 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118482	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100017	Sample Preparation:	2014-12-30	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**18.5**	mg/Kg	1	2.00

Sample: 382737 - ML-S-9 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118564	Date Analyzed:	2015-01-09	Analyzed By:	RL
Prep Batch:	100249	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**2770**	mg/Kg	5	25.0

Sample: 382738 - ML-BG-9 1 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118536	Date Analyzed:	2015-01-08	Analyzed By:	RL
Prep Batch:	100223	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Chloride	Qr,Qs	3,4,5	<25.0		mg/Kg	1	25.0

Sample: 382738 - ML-BG-9 1 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118527	Date Analyzed:	2015-01-08	Analyzed By:	LM
Prep Batch:	100017	Sample Preparation:	2014-12-30	Prepared By:	LM

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**3420**		mg/Kg	100	0.500

Sample: 382738 - ML-BG-9 1 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118482	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100017	Sample Preparation:	2014-12-30	Prepared By:	RR

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**24.6**		mg/Kg	1	2.00

Sample: 382738 - ML-BG-9 1 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118536	Date Analyzed:	2015-01-08	Analyzed By:	RL
Prep Batch:	100223	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Sulfate	Qs	3,4,5	**41.4**		mg/Kg	1	25.0

Sample: 382739 - ML-CL-10 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118536	Date Analyzed:	2015-01-08	Analyzed By:	RL
Prep Batch:	100223	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride	Qr,Qs	3,4,5	**740**	mg/Kg	5	25.0

Sample: 382739 - ML-CL-10 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118527	Date Analyzed:	2015-01-08	Analyzed By:	LM
Prep Batch:	100017	Sample Preparation:	2014-12-30	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**3950**	mg/Kg	100	0.500

Sample: 382739 - ML-CL-10 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118482	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100017	Sample Preparation:	2014-12-30	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**31.0**	mg/Kg	1	2.00

Sample: 382739 - ML-CL-10 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118536	Date Analyzed:	2015-01-08	Analyzed By:	RL
Prep Batch:	100223	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate	Qs	3,4,5	**414**	mg/Kg	5	25.0

Sample: 382740 - ML-CL-10 6-12

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118536	Date Analyzed:	2015-01-08	Analyzed By:	RL
Prep Batch:	100223	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Chloride	Qr,Qs	3,4,5	**825**		mg/Kg	5	25.0

Sample: 382740 - ML-CL-10 6-12

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118527	Date Analyzed:	2015-01-08	Analyzed By:	LM
Prep Batch:	100017	Sample Preparation:	2014-12-30	Prepared By:	LM

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**4990**		mg/Kg	100	0.500

Sample: 382740 - ML-CL-10 6-12

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118482	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100017	Sample Preparation:	2014-12-30	Prepared By:	RR

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**42.7**		mg/Kg	1	2.00

Sample: 382740 - ML-CL-10 6-12

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118536	Date Analyzed:	2015-01-08	Analyzed By:	RL
Prep Batch:	100223	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Sulfate	Qs	3,4,5	**191**		mg/Kg	5	25.0

Sample: 382741 - ML-N-10 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118564	Date Analyzed:	2015-01-09	Analyzed By:	RL
Prep Batch:	100249	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**66.1**	mg/Kg	1	25.0

Sample: 382741 - ML-N-10 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118527	Date Analyzed:	2015-01-08	Analyzed By:	LM
Prep Batch:	100017	Sample Preparation:	2014-12-30	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**4230**	mg/Kg	100	0.500

Sample: 382741 - ML-N-10 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118482	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100017	Sample Preparation:	2014-12-30	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**24.8**	mg/Kg	1	2.00

Sample: 382741 - ML-N-10 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118536	Date Analyzed:	2015-01-08	Analyzed By:	RL
Prep Batch:	100223	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate	Qs	3,4,5	**1180**	mg/Kg	5	25.0

Sample: 382742 - ML-S-10 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118536	Date Analyzed:	2015-01-08	Analyzed By:	RL
Prep Batch:	100223	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Chloride	Qr,Qs	3,4,5	**193**		mg/Kg	5	25.0

Sample: 382742 - ML-S-10 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118527	Date Analyzed:	2015-01-08	Analyzed By:	LM
Prep Batch:	100017	Sample Preparation:	2014-12-30	Prepared By:	LM

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**3090**		mg/Kg	100	0.500

Sample: 382742 - ML-S-10 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118482	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100017	Sample Preparation:	2014-12-30	Prepared By:	RR

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**23.3**		mg/Kg	1	2.00

Sample: 382742 - ML-S-10 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118536	Date Analyzed:	2015-01-08	Analyzed By:	RL
Prep Batch:	100223	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Sulfate	Qs	3,4,5	**1870**		mg/Kg	5	25.0

Sample: 382743 - ML-BG-10 1 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118536	Date Analyzed:	2015-01-08	Analyzed By:	RL
Prep Batch:	100223	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Chloride	Qr,Qs	3,4,5	<25.0		mg/Kg	1	25.0

Sample: 382743 - ML-BG-10 1 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118527	Date Analyzed:	2015-01-08	Analyzed By:	LM
Prep Batch:	100017	Sample Preparation:	2014-12-30	Prepared By:	LM

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**5900**		mg/Kg	100	0.500

Sample: 382743 - ML-BG-10 1 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118482	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100017	Sample Preparation:	2014-12-30	Prepared By:	RR

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**60.7**		mg/Kg	1	2.00

Sample: 382743 - ML-BG-10 1 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118536	Date Analyzed:	2015-01-08	Analyzed By:	RL
Prep Batch:	100223	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Sulfate	Qs	3,4,5	**67.6**		mg/Kg	1	25.0

Sample: 382744 - ML-CL-11 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118536	Date Analyzed:	2015-01-08	Analyzed By:	RL
Prep Batch:	100223	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride	Qr,Qs	3,4,5	**234**	mg/Kg	5	25.0

Sample: 382744 - ML-CL-11 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118527	Date Analyzed:	2015-01-08	Analyzed By:	LM
Prep Batch:	100017	Sample Preparation:	2014-12-30	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**3570**	mg/Kg	100	0.500

Sample: 382744 - ML-CL-11 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118482	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100017	Sample Preparation:	2014-12-30	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**29.5**	mg/Kg	1	2.00

Sample: 382744 - ML-CL-11 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118536	Date Analyzed:	2015-01-08	Analyzed By:	RL
Prep Batch:	100223	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate	Qs	3,4,5	**1230**	mg/Kg	5	25.0

Sample: 382745 - ML-CL-11 6-12in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118536	Date Analyzed:	2015-01-08	Analyzed By:	RL
Prep Batch:	100223	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Chloride	Qr,Qs	3,4,5	**115**		mg/Kg	1	25.0

Sample: 382745 - ML-CL-11 6-12in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118527	Date Analyzed:	2015-01-08	Analyzed By:	LM
Prep Batch:	100017	Sample Preparation:	2014-12-30	Prepared By:	LM

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**2520**		mg/Kg	100	0.500

Sample: 382745 - ML-CL-11 6-12in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118482	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100017	Sample Preparation:	2014-12-30	Prepared By:	RR

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**21.6**		mg/Kg	1	2.00

Sample: 382745 - ML-CL-11 6-12in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118536	Date Analyzed:	2015-01-08	Analyzed By:	RL
Prep Batch:	100223	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Sulfate	Qs	3,4,5	**188**		mg/Kg	1	25.0

Sample: 382746 - ML-N-11 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118536	Date Analyzed:	2015-01-08	Analyzed By:	RL
Prep Batch:	100223	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Chloride	Qr,Qs	3,4,5	**140**		mg/Kg	1	25.0

Sample: 382746 - ML-N-11 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118527	Date Analyzed:	2015-01-08	Analyzed By:	LM
Prep Batch:	100017	Sample Preparation:	2014-12-30	Prepared By:	LM

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**3110**		mg/Kg	100	0.500

Sample: 382746 - ML-N-11 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118482	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100017	Sample Preparation:	2014-12-30	Prepared By:	RR

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**22.4**		mg/Kg	1	2.00

Sample: 382746 - ML-N-11 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118536	Date Analyzed:	2015-01-08	Analyzed By:	RL
Prep Batch:	100223	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Sulfate	Qs	3,4,5	**286**		mg/Kg	1	25.0

Sample: 382747 - ML-S-11 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118564	Date Analyzed:	2015-01-09	Analyzed By:	RL
Prep Batch:	100249	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**51.6**	mg/Kg	1	25.0

Sample: 382747 - ML-S-11 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118527	Date Analyzed:	2015-01-08	Analyzed By:	LM
Prep Batch:	100017	Sample Preparation:	2014-12-30	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**2240**	mg/Kg	100	0.500

Sample: 382747 - ML-S-11 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118482	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100017	Sample Preparation:	2014-12-30	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**16.0**	mg/Kg	1	2.00

Sample: 382747 - ML-S-11 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118536	Date Analyzed:	2015-01-08	Analyzed By:	RL
Prep Batch:	100223	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate	Qs	3,4,5	**1870**	mg/Kg	5	25.0

Sample: 382748 - ML-BG-11 1 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118533	Date Analyzed:	2015-01-06	Analyzed By:	RL
Prep Batch:	100222	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**26.5**	mg/Kg	1	25.0

Sample: 382748 - ML-BG-11 1 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118527	Date Analyzed:	2015-01-08	Analyzed By:	LM
Prep Batch:	100017	Sample Preparation:	2014-12-30	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**4070**	mg/Kg	100	0.500

Sample: 382748 - ML-BG-11 1 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118482	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100017	Sample Preparation:	2014-12-30	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**39.3**	mg/Kg	1	2.00

Sample: 382748 - ML-BG-11 1 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118533	Date Analyzed:	2015-01-06	Analyzed By:	RL
Prep Batch:	100222	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate	B	3,4,5	**43.7**	mg/Kg	1	25.0

Sample: 382749 - ML-CL-12 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118533	Date Analyzed:	2015-01-06	Analyzed By:	RL
Prep Batch:	100222	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**139**	mg/Kg	2	25.0

Sample: 382749 - ML-CL-12 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118527	Date Analyzed:	2015-01-08	Analyzed By:	LM
Prep Batch:	100017	Sample Preparation:	2014-12-30	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**4050**	mg/Kg	100	0.500

Sample: 382749 - ML-CL-12 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118482	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100017	Sample Preparation:	2014-12-30	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**32.6**	mg/Kg	1	2.00

Sample: 382749 - ML-CL-12 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118533	Date Analyzed:	2015-01-06	Analyzed By:	RL
Prep Batch:	100222	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**325**	mg/Kg	2	25.0

Sample: 382750 - ML-CL-12 6-12 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118533	Date Analyzed:	2015-01-06	Analyzed By:	RL
Prep Batch:	100222	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**142**	mg/Kg	1	25.0

Sample: 382750 - ML-CL-12 6-12 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118551	Date Analyzed:	2015-01-09	Analyzed By:	RR
Prep Batch:	100052	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**3460**	mg/Kg	100	0.500

Sample: 382750 - ML-CL-12 6-12 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118484	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100052	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese		1,2,3,4,5	**35.7**	mg/Kg	1	2.00

Sample: 382750 - ML-CL-12 6-12 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118533	Date Analyzed:	2015-01-06	Analyzed By:	RL
Prep Batch:	100222	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**80.8**	mg/Kg	1	25.0

Sample: 382751 - ML-N-12 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118533	Date Analyzed:	2015-01-06	Analyzed By:	RL
Prep Batch:	100222	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**31.2**	mg/Kg	1	25.0

Sample: 382751 - ML-N-12 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118551	Date Analyzed:	2015-01-09	Analyzed By:	RR
Prep Batch:	100052	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**3180**	mg/Kg	100	0.500

Sample: 382751 - ML-N-12 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118484	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100052	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese		1,2,3,4,5	**25.1**	mg/Kg	1	2.00

Sample: 382751 - ML-N-12 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118533	Date Analyzed:	2015-01-06	Analyzed By:	RL
Prep Batch:	100222	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**172**	mg/Kg	1	25.0

Sample: 382752 - ML-S-12 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118533	Date Analyzed:	2015-01-06	Analyzed By:	RL
Prep Batch:	100222	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**31.0**	mg/Kg	1	25.0

Sample: 382752 - ML-S-12 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118551	Date Analyzed:	2015-01-09	Analyzed By:	RR
Prep Batch:	100052	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**2870**	mg/Kg	100	0.500

Sample: 382752 - ML-S-12 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118484	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100052	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese		1,2,3,4,5	**29.2**	mg/Kg	1	2.00

Sample: 382752 - ML-S-12 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118533	Date Analyzed:	2015-01-06	Analyzed By:	RL
Prep Batch:	100222	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**106**	mg/Kg	1	25.0

Sample: 382753 - ML-BG-12

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118533	Date Analyzed:	2015-01-06	Analyzed By:	RL
Prep Batch:	100222	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	<25.0	mg/Kg	1	25.0

Sample: 382753 - ML-BG-12

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118551	Date Analyzed:	2015-01-09	Analyzed By:	RR
Prep Batch:	100052	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**3030**	mg/Kg	100	0.500

Sample: 382753 - ML-BG-12

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118484	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100052	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese		1,2,3,4,5	**30.8**	mg/Kg	1	2.00

Sample: 382753 - ML-BG-12

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118533	Date Analyzed:	2015-01-06	Analyzed By:	RL
Prep Batch:	100222	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate	B	3,4,5	**29.1**	mg/Kg	1	25.0

Sample: 382754 - ML-CL-13 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118533	Date Analyzed:	2015-01-06	Analyzed By:	RL
Prep Batch:	100222	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**45.9**	mg/Kg	1	25.0

Sample: 382754 - ML-CL-13 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118551	Date Analyzed:	2015-01-09	Analyzed By:	RR
Prep Batch:	100052	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**2060**	mg/Kg	100	0.500

Sample: 382754 - ML-CL-13 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118484	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100052	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese		1,2,3,4,5	**18.9**	mg/Kg	1	2.00

Sample: 382754 - ML-CL-13 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118533	Date Analyzed:	2015-01-06	Analyzed By:	RL
Prep Batch:	100222	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**168**	mg/Kg	1	25.0

Sample: 382755 - ML-CL-13 6-12

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118533	Date Analyzed:	2015-01-06	Analyzed By:	RL
Prep Batch:	100222	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**181**	mg/Kg	5	25.0

Sample: 382755 - ML-CL-13 6-12

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118551	Date Analyzed:	2015-01-09	Analyzed By:	RR
Prep Batch:	100052	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**2090**	mg/Kg	100	0.500

Sample: 382755 - ML-CL-13 6-12

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118484	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100052	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese		1,2,3,4,5	**17.6**	mg/Kg	1	2.00

Sample: 382755 - ML-CL-13 6-12

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118533	Date Analyzed:	2015-01-06	Analyzed By:	RL
Prep Batch:	100222	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**1610**	mg/Kg	5	25.0

Sample: 382756 - ML-N-13 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118533	Date Analyzed:	2015-01-06	Analyzed By:	RL
Prep Batch:	100222	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**218**	mg/Kg	5	25.0

Sample: 382756 - ML-N-13 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118551	Date Analyzed:	2015-01-09	Analyzed By:	RR
Prep Batch:	100052	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**3080**	mg/Kg	100	0.500

Sample: 382756 - ML-N-13 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118484	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100052	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese		1,2,3,4,5	**31.2**	mg/Kg	1	2.00

Sample: 382756 - ML-N-13 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118533	Date Analyzed:	2015-01-06	Analyzed By:	RL
Prep Batch:	100222	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**1110**	mg/Kg	5	25.0

Sample: 382757 - ML-S-13 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118533	Date Analyzed:	2015-01-06	Analyzed By:	RL
Prep Batch:	100222	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**277**	mg/Kg	5	25.0

Sample: 382757 - ML-S-13 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118551	Date Analyzed:	2015-01-09	Analyzed By:	RR
Prep Batch:	100052	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**2990**	mg/Kg	100	0.500

Sample: 382757 - ML-S-13 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118484	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100052	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese		1,2,3,4,5	**26.8**	mg/Kg	1	2.00

Sample: 382757 - ML-S-13 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118533	Date Analyzed:	2015-01-06	Analyzed By:	RL
Prep Batch:	100222	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**1740**	mg/Kg	5	25.0

Sample: 382758 - ML-BG-13 1 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118531	Date Analyzed:	2015-01-06	Analyzed By:	RL
Prep Batch:	100220	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	<25.0	mg/Kg	1	25.0

Sample: 382758 - ML-BG-13 1 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118551	Date Analyzed:	2015-01-09	Analyzed By:	RR
Prep Batch:	100052	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**3760**	mg/Kg	100	0.500

Sample: 382758 - ML-BG-13 1 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118484	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100052	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese		1,2,3,4,5	**36.6**	mg/Kg	1	2.00

Sample: 382758 - ML-BG-13 1 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118531	Date Analyzed:	2015-01-06	Analyzed By:	RL
Prep Batch:	100220	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**113**	mg/Kg	1	25.0

Sample: 382759 - ML-CL-14 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118531	Date Analyzed:	2015-01-06	Analyzed By:	RL
Prep Batch:	100220	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**83.3**	mg/Kg	2	25.0

Sample: 382759 - ML-CL-14 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118551	Date Analyzed:	2015-01-09	Analyzed By:	RR
Prep Batch:	100052	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**2970**	mg/Kg	100	0.500

Sample: 382759 - ML-CL-14 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118484	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100052	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese		1,2,3,4,5	**27.8**	mg/Kg	1	2.00

Sample: 382759 - ML-CL-14 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118531	Date Analyzed:	2015-01-06	Analyzed By:	RL
Prep Batch:	100220	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**730**	mg/Kg	2	25.0

Sample: 382760 - ML-CL-14 6-12

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118531	Date Analyzed:	2015-01-06	Analyzed By:	RL
Prep Batch:	100220	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**72.6**	mg/Kg	1	25.0

Sample: 382760 - ML-CL-14 6-12

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118551	Date Analyzed:	2015-01-09	Analyzed By:	RR
Prep Batch:	100052	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**3660**	mg/Kg	100	0.500

Sample: 382760 - ML-CL-14 6-12

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118484	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100052	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese		1,2,3,4,5	**33.0**	mg/Kg	1	2.00

Sample: 382760 - ML-CL-14 6-12

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118531	Date Analyzed:	2015-01-06	Analyzed By:	RL
Prep Batch:	100220	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**58.5**	mg/Kg	1	25.0

Sample: 382761 - ML-N-14 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118531	Date Analyzed:	2015-01-06	Analyzed By:	RL
Prep Batch:	100220	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**215**	mg/Kg	5	25.0

Sample: 382761 - ML-N-14 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118551	Date Analyzed:	2015-01-09	Analyzed By:	RR
Prep Batch:	100052	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**3440**	mg/Kg	100	0.500

Sample: 382761 - ML-N-14 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118484	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100052	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese		1,2,3,4,5	**25.8**	mg/Kg	1	2.00

Sample: 382761 - ML-N-14 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118531	Date Analyzed:	2015-01-06	Analyzed By:	RL
Prep Batch:	100220	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**824**	mg/Kg	5	25.0

Sample: 382762 - ML-s-14 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118551	Date Analyzed:	2015-01-09	Analyzed By:	RR
Prep Batch:	100052	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**2740**	mg/Kg	100	0.500

Sample: 382762 - ML-s-14 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118484	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100052	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese		1,2,3,4,5	**21.0**	mg/Kg	1	2.00

Sample: 382762 - ML-s-14 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118531	Date Analyzed:	2015-01-06	Analyzed By:	RL
Prep Batch:	100220	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**1630**	mg/Kg	5	25.0

Sample: 382763 - ML-BG-14 1 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118531	Date Analyzed:	2015-01-06	Analyzed By:	RL
Prep Batch:	100220	Sample Preparation:		Prepared By:	RL

continued . . .

sample 382763 continued . . .

Parameter	Flag	Cert	RL Result	Units	Dilution	RL

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride		3,4,5	<25.0	mg/Kg	1	25.0

Sample: 382763 - ML-BG-14 1 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118551	Date Analyzed:	2015-01-09	Analyzed By:	RR
Prep Batch:	100052	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**4040**	mg/Kg	100	0.500

Sample: 382763 - ML-BG-14 1 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118484	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100052	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Total Manganese		1,2,3,4,5	**36.9**	mg/Kg	1	2.00

Sample: 382763 - ML-BG-14 1 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118531	Date Analyzed:	2015-01-06	Analyzed By:	RL
Prep Batch:	100220	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Sulfate		3,4,5	**29.4**	mg/Kg	1	25.0

Sample: 382764 - ML-CL-15 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118531	Date Analyzed:	2015-01-06	Analyzed By:	RL
Prep Batch:	100220	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**54.3**	mg/Kg	1	25.0

Sample: 382764 - ML-CL-15 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118551	Date Analyzed:	2015-01-09	Analyzed By:	RR
Prep Batch:	100052	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**2770**	mg/Kg	100	0.500

Sample: 382764 - ML-CL-15 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118484	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100052	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese		1,2,3,4,5	**25.7**	mg/Kg	1	2.00

Sample: 382764 - ML-CL-15 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118531	Date Analyzed:	2015-01-06	Analyzed By:	RL
Prep Batch:	100220	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**50.5**	mg/Kg	1	25.0

Sample: 382765 - ML-CL-15 6-12

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118531	Date Analyzed:	2015-01-06	Analyzed By:	RL
Prep Batch:	100220	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	<25.0	mg/Kg	1	25.0

Sample: 382765 - ML-CL-15 6-12

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118551	Date Analyzed:	2015-01-09	Analyzed By:	RR
Prep Batch:	100052	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**2510**	mg/Kg	100	0.500

Sample: 382765 - ML-CL-15 6-12

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118484	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100052	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese		1,2,3,4,5	**25.4**	mg/Kg	1	2.00

Sample: 382765 - ML-CL-15 6-12

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118531	Date Analyzed:	2015-01-06	Analyzed By:	RL
Prep Batch:	100220	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	<25.0	mg/Kg	1	25.0

Sample: 382766 - ML-N-15 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118531	Date Analyzed:	2015-01-06	Analyzed By:	RL
Prep Batch:	100220	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**60.0**	mg/Kg	1	25.0

Sample: 382766 - ML-N-15 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118551	Date Analyzed:	2015-01-09	Analyzed By:	RR
Prep Batch:	100052	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**3270**	mg/Kg	100	0.500

Sample: 382766 - ML-N-15 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118484	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100052	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese		1,2,3,4,5	**30.3**	mg/Kg	1	2.00

Sample: 382766 - ML-N-15 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118531	Date Analyzed:	2015-01-06	Analyzed By:	RL
Prep Batch:	100220	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**109**	mg/Kg	1	25.0

Sample: 382767 - ML-S-15 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118531	Date Analyzed:	2015-01-06	Analyzed By:	RL
Prep Batch:	100220	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**277**	mg/Kg	5	25.0

Sample: 382767 - ML-S-15 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118551	Date Analyzed:	2015-01-09	Analyzed By:	RR
Prep Batch:	100052	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**2580**	mg/Kg	100	0.500

Sample: 382767 - ML-S-15 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118484	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100052	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese		1,2,3,4,5	**21.5**	mg/Kg	1	2.00

Sample: 382767 - ML-S-15 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118531	Date Analyzed:	2015-01-06	Analyzed By:	RL
Prep Batch:	100220	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**690**	mg/Kg	5	25.0

Sample: 382768 - ML-BG-15 1 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118438	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100150	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Chloride		3,4,5	<25.0		mg/Kg	1	25.0

Sample: 382768 - ML-BG-15 1 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118551	Date Analyzed:	2015-01-09	Analyzed By:	RR
Prep Batch:	100052	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**2880**		mg/Kg	100	0.500

Sample: 382768 - ML-BG-15 1 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118484	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100052	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Total Manganese		1,2,3,4,5	**27.2**		mg/Kg	1	2.00

Sample: 382768 - ML-BG-15 1 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118438	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100150	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Sulfate		3,4,5	<25.0		mg/Kg	1	25.0

Sample: 382769 - ML-CL-16 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118438	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100150	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**336**	mg/Kg	5	25.0

Sample: 382769 - ML-CL-16 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118551	Date Analyzed:	2015-01-09	Analyzed By:	RR
Prep Batch:	100052	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**4490**	mg/Kg	100	0.500

Sample: 382769 - ML-CL-16 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118484	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100052	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese		1,2,3,4,5	**33.5**	mg/Kg	1	2.00

Sample: 382769 - ML-CL-16 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118438	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100150	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**1770**	mg/Kg	5	25.0

Sample: 382770 - ML-CL-16 6-12

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118438	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100150	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**26.3**	mg/Kg	1	25.0

Sample: 382770 - ML-CL-16 6-12

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118574	Date Analyzed:	2015-01-09	Analyzed By:	LM
Prep Batch:	100054	Sample Preparation:	2014-12-31	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**3410**	mg/Kg	100	0.500

Sample: 382770 - ML-CL-16 6-12

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118486	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100054	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**36.4**	mg/Kg	1	2.00

Sample: 382770 - ML-CL-16 6-12

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118438	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100150	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**126**	mg/Kg	1	25.0

Sample: 382771 - ML-N-16 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118564	Date Analyzed:	2015-01-09	Analyzed By:	RL
Prep Batch:	100249	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**65.4**	mg/Kg	1	25.0

Sample: 382771 - ML-N-16 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118574	Date Analyzed:	2015-01-09	Analyzed By:	LM
Prep Batch:	100054	Sample Preparation:	2014-12-31	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**3060**	mg/Kg	100	0.500

Sample: 382771 - ML-N-16 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118486	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100054	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**26.6**	mg/Kg	1	2.00

Sample: 382771 - ML-N-16 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118438	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100150	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**1610**	mg/Kg	5	25.0

Sample: 382772 - ML-S-16 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118438	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100150	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**95.8**	mg/Kg	1	25.0

Sample: 382772 - ML-S-16 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118574	Date Analyzed:	2015-01-09	Analyzed By:	LM
Prep Batch:	100054	Sample Preparation:	2014-12-31	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**3100**	mg/Kg	100	0.500

Sample: 382772 - ML-S-16 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118486	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100054	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**28.8**	mg/Kg	1	2.00

Sample: 382772 - ML-S-16 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118438	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100150	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**287**	mg/Kg	1	25.0

Sample: 382773 - ML-BG-16 1 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118438	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100150	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	<25.0	mg/Kg	1	25.0

Sample: 382773 - ML-BG-16 1 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118574	Date Analyzed:	2015-01-09	Analyzed By:	LM
Prep Batch:	100054	Sample Preparation:	2014-12-31	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**3050**	mg/Kg	100	0.500

Sample: 382773 - ML-BG-16 1 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118486	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100054	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**34.2**	mg/Kg	1	2.00

Sample: 382773 - ML-BG-16 1 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118438	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100150	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	<25.0	mg/Kg	1	25.0

Sample: 382774 - ML-CL-17 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118438	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100150	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**216**	mg/Kg	2	25.0

Sample: 382774 - ML-CL-17 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118574	Date Analyzed:	2015-01-09	Analyzed By:	LM
Prep Batch:	100054	Sample Preparation:	2014-12-31	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**3720**	mg/Kg	100	0.500

Sample: 382774 - ML-CL-17 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118486	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100054	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**31.3**	mg/Kg	1	2.00

Sample: 382774 - ML-CL-17 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118438	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100150	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**331**	mg/Kg	2	25.0

Sample: 382775 - ML-CL-17 6-12

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118438	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100150	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**28.8**	mg/Kg	1	25.0

Sample: 382775 - ML-CL-17 6-12

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118574	Date Analyzed:	2015-01-09	Analyzed By:	LM
Prep Batch:	100054	Sample Preparation:	2014-12-31	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**3320**	mg/Kg	100	0.500

Sample: 382775 - ML-CL-17 6-12

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118486	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100054	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**36.5**	mg/Kg	1	2.00

Sample: 382775 - ML-CL-17 6-12

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118438	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100150	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**45.9**	mg/Kg	1	25.0

Sample: 382776 - ML-N-17 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118438	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100150	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**83.5**	mg/Kg	1	25.0

Sample: 382776 - ML-N-17 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118574	Date Analyzed:	2015-01-09	Analyzed By:	LM
Prep Batch:	100054	Sample Preparation:	2014-12-31	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**2780**	mg/Kg	100	0.500

Sample: 382776 - ML-N-17 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118486	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100054	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**22.2**	mg/Kg	1	2.00

Sample: 382776 - ML-N-17 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118438	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100150	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**356**	mg/Kg	1	25.0

Sample: 382777 - ML-S-17 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118438	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100150	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**307**	mg/Kg	5	25.0

Sample: 382777 - ML-S-17 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118574	Date Analyzed:	2015-01-09	Analyzed By:	LM
Prep Batch:	100054	Sample Preparation:	2014-12-31	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**2600**	mg/Kg	100	0.500

Sample: 382777 - ML-S-17 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118486	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100054	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**22.9**	mg/Kg	1	2.00

Sample: 382777 - ML-S-17 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118438	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100150	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**1510**	mg/Kg	5	25.0

Sample: 382778 - ML-BG-17 1 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118442	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100152	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	<25.0	mg/Kg	1	25.0

Sample: 382778 - ML-BG-17 1 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118574	Date Analyzed:	2015-01-09	Analyzed By:	LM
Prep Batch:	100054	Sample Preparation:	2014-12-31	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**2920**	mg/Kg	100	0.500

Sample: 382778 - ML-BG-17 1 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118486	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100054	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**31.9**	mg/Kg	1	2.00

Sample: 382778 - ML-BG-17 1 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118442	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100152	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**31.1**	mg/Kg	1	25.0

Sample: 382779 - ML-CL-18 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118442	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100152	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**573**	mg/Kg	5	25.0

Sample: 382779 - ML-CL-18 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118574	Date Analyzed:	2015-01-09	Analyzed By:	LM
Prep Batch:	100054	Sample Preparation:	2014-12-31	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**3940**	mg/Kg	100	0.500

Sample: 382779 - ML-CL-18 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118486	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100054	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**32.2**	mg/Kg	1	2.00

Sample: 382779 - ML-CL-18 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118442	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100152	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**1750**	mg/Kg	5	25.0

Sample: 382780 - ML-CL-18 6-12

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118442	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100152	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**740**	mg/Kg	5	25.0

Sample: 382780 - ML-CL-18 6-12

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118574	Date Analyzed:	2015-01-09	Analyzed By:	LM
Prep Batch:	100054	Sample Preparation:	2014-12-31	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**3740**	mg/Kg	100	0.500

Sample: 382780 - ML-CL-18 6-12

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118486	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100054	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**34.4**	mg/Kg	1	2.00

Sample: 382780 - ML-CL-18 6-12

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118442	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100152	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**232**	mg/Kg	5	25.0

Sample: 382781 - ML-N-18 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118564	Date Analyzed:	2015-01-09	Analyzed By:	RL
Prep Batch:	100249	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**101**	mg/Kg	1	25.0

Sample: 382781 - ML-N-18 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118574	Date Analyzed:	2015-01-09	Analyzed By:	LM
Prep Batch:	100054	Sample Preparation:	2014-12-31	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**2910**	mg/Kg	100	0.500

Sample: 382781 - ML-N-18 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118486	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100054	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**22.7**	mg/Kg	1	2.00

Sample: 382781 - ML-N-18 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118442	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100152	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**655**	mg/Kg	5	25.0

Sample: 382782 - ML-S-18 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118442	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100152	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**402**	mg/Kg	5	25.0

Sample: 382782 - ML-S-18 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118574	Date Analyzed:	2015-01-09	Analyzed By:	LM
Prep Batch:	100054	Sample Preparation:	2014-12-31	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**3380**	mg/Kg	100	0.500

Sample: 382782 - ML-S-18 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118486	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100054	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**24.2**	mg/Kg	1	2.00

Sample: 382782 - ML-S-18 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118442	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100152	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**1020**	mg/Kg	5	25.0

Sample: 382783 - ML-BG-18 1 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118442	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100152	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	<25.0	mg/Kg	1	25.0

Sample: 382783 - ML-BG-18 1 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118574	Date Analyzed:	2015-01-09	Analyzed By:	LM
Prep Batch:	100054	Sample Preparation:	2014-12-31	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**3980**	mg/Kg	100	0.500

Sample: 382783 - ML-BG-18 1 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118486	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100054	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**41.6**	mg/Kg	1	2.00

Sample: 382783 - ML-BG-18 1 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118442	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100152	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**62.2**	mg/Kg	1	25.0

Sample: 382784 - ML-CL-20 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118442	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100152	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**244**	mg/Kg	5	25.0

Sample: 382784 - ML-CL-20 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118574	Date Analyzed:	2015-01-09	Analyzed By:	LM
Prep Batch:	100054	Sample Preparation:	2014-12-31	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**3830**	mg/Kg	100	0.500

Sample: 382784 - ML-CL-20 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118486	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100054	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**28.7**	mg/Kg	1	2.00

Sample: 382784 - ML-CL-20 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118442	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100152	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**1300**	mg/Kg	5	25.0

Sample: 382785 - ML-CL-20 6-12

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118442	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100152	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**480**	mg/Kg	5	25.0

Sample: 382785 - ML-CL-20 6-12

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118574	Date Analyzed:	2015-01-09	Analyzed By:	LM
Prep Batch:	100054	Sample Preparation:	2014-12-31	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**3610**	mg/Kg	100	0.500

Sample: 382785 - ML-CL-20 6-12

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118486	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100054	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**31.7**	mg/Kg	1	2.00

Sample: 382785 - ML-CL-20 6-12

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118442	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100152	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**1080**	mg/Kg	5	25.0

Sample: 382786 - ML-N-20 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118564	Date Analyzed:	2015-01-09	Analyzed By:	RL
Prep Batch:	100249	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**140**	mg/Kg	1	25.0

Sample: 382786 - ML-N-20 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118574	Date Analyzed:	2015-01-09	Analyzed By:	LM
Prep Batch:	100054	Sample Preparation:	2014-12-31	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**3900**	mg/Kg	100	0.500

Sample: 382786 - ML-N-20 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118486	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100054	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**28.8**	mg/Kg	1	2.00

Sample: 382786 - ML-N-20 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118442	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100152	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**1120**	mg/Kg	5	25.0

Sample: 382787 - ML-S-20 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118564	Date Analyzed:	2015-01-09	Analyzed By:	RL
Prep Batch:	100249	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**163**	mg/Kg	1	25.0

Sample: 382787 - ML-S-20 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118574	Date Analyzed:	2015-01-09	Analyzed By:	LM
Prep Batch:	100054	Sample Preparation:	2014-12-31	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**4650**	mg/Kg	100	0.500

Sample: 382787 - ML-S-20 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118486	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100054	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**38.5**	mg/Kg	1	2.00

Sample: 382787 - ML-S-20 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118442	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100152	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**1180**	mg/Kg	5	25.0

Sample: 382788 - ML-BG-20 1 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118437	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100147	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	<25.0	mg/Kg	1	25.0

Sample: 382788 - ML-BG-20 1 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118574	Date Analyzed:	2015-01-09	Analyzed By:	LM
Prep Batch:	100054	Sample Preparation:	2014-12-31	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**2370**	mg/Kg	100	0.500

Sample: 382788 - ML-BG-20 1 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118486	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100054	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**24.8**	mg/Kg	1	2.00

Sample: 382788 - ML-BG-20 1 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118437	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100147	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	<25.0	mg/Kg	1	25.0

Sample: 382789 - ML-CL-19 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118437	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100147	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**198**	mg/Kg	2	25.0

Sample: 382789 - ML-CL-19 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118574	Date Analyzed:	2015-01-09	Analyzed By:	LM
Prep Batch:	100054	Sample Preparation:	2014-12-31	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qs	1,2,3,4,5	**3480**	mg/Kg	100	0.500

Sample: 382789 - ML-CL-19 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118486	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100054	Sample Preparation:	2014-12-31	Prepared By:	RR

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese	Qs	1,2,3,4,5	**30.7**	mg/Kg	1	2.00

Sample: 382789 - ML-CL-19 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118437	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100147	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**336**	mg/Kg	2	25.0

Sample: 382790 - ML-CL-19 6-12

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118437	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100147	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**94.2**	mg/Kg	1	25.0

Sample: 382790 - ML-CL-19 6-12

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118490	Date Analyzed:	2015-01-07	Analyzed By:	LM
Prep Batch:	100094	Sample Preparation:	2015-01-05	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qr,Qs	1,2,3,4,5	**3220**	mg/Kg	100	0.500

Sample: 382790 - ML-CL-19 6-12

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118489	Date Analyzed:	2015-01-07	Analyzed By:	LM
Prep Batch:	100094	Sample Preparation:	2015-01-05	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese		1,2,3,4,5	**26.4**	mg/Kg	1	2.00

Sample: 382790 - ML-CL-19 6-12

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118437	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100147	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**63.3**	mg/Kg	1	25.0

Sample: 382791 - ML-N-19 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118437	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100147	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**168**	mg/Kg	5	25.0

Sample: 382791 - ML-N-19 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118490	Date Analyzed:	2015-01-07	Analyzed By:	LM
Prep Batch:	100094	Sample Preparation:	2015-01-05	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qr,Qs	1,2,3,4,5	**4140**	mg/Kg	100	0.500

Sample: 382791 - ML-N-19 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118489	Date Analyzed:	2015-01-07	Analyzed By:	LM
Prep Batch:	100094	Sample Preparation:	2015-01-05	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese		1,2,3,4,5	**29.1**	mg/Kg	1	2.00

Sample: 382791 - ML-N-19 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118437	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100147	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**1000**	mg/Kg	5	25.0

Sample: 382792 - ML-S-19 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118564	Date Analyzed:	2015-01-09	Analyzed By:	RL
Prep Batch:	100249	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**90.2**	mg/Kg	1	25.0

Sample: 382792 - ML-S-19 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118490	Date Analyzed:	2015-01-07	Analyzed By:	LM
Prep Batch:	100094	Sample Preparation:	2015-01-05	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qr,Qs	1,2,3,4,5	**2520**	mg/Kg	100	0.500

Sample: 382792 - ML-S-19 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118489	Date Analyzed:	2015-01-07	Analyzed By:	LM
Prep Batch:	100094	Sample Preparation:	2015-01-05	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese		1,2,3,4,5	**17.9**	mg/Kg	1	2.00

Sample: 382792 - ML-S-19 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118437	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100147	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**1890**	mg/Kg	5	25.0

Sample: 382793 - ML-BG-19 1 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118437	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100147	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	<25.0	mg/Kg	1	25.0

Sample: 382793 - ML-BG-19 1 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118490	Date Analyzed:	2015-01-07	Analyzed By:	LM
Prep Batch:	100094	Sample Preparation:	2015-01-05	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qr,Qs	1,2,3,4,5	**2960**	mg/Kg	100	0.500

Sample: 382793 - ML-BG-19 1 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118489	Date Analyzed:	2015-01-07	Analyzed By:	LM
Prep Batch:	100094	Sample Preparation:	2015-01-05	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese		1,2,3,4,5	**26.0**	mg/Kg	1	2.00

Sample: 382793 - ML-BG-19 1 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118437	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100147	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**29.5**	mg/Kg	1	25.0

Sample: 382794 - ML-CL-21 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118437	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100147	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**1310**	mg/Kg	5	25.0

Sample: 382794 - ML-CL-21 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118490	Date Analyzed:	2015-01-07	Analyzed By:	LM
Prep Batch:	100094	Sample Preparation:	2015-01-05	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qr,Qs	1,2,3,4,5	**5440**	mg/Kg	100	0.500

Sample: 382794 - ML-CL-21 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118489	Date Analyzed:	2015-01-07	Analyzed By:	LM
Prep Batch:	100094	Sample Preparation:	2015-01-05	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese		1,2,3,4,5	**42.9**	mg/Kg	1	2.00

Sample: 382794 - ML-CL-21 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118437	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100147	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**747**	mg/Kg	5	25.0

Sample: 382795 - ML-CL-21 6-12

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118437	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100147	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Chloride		3,4,5	**688**		mg/Kg	5	25.0

Sample: 382795 - ML-CL-21 6-12

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118490	Date Analyzed:	2015-01-07	Analyzed By:	LM
Prep Batch:	100094	Sample Preparation:	2015-01-05	Prepared By:	LM

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Total Iron	Qr,Qs	1,2,3,4,5	**3650**		mg/Kg	100	0.500

Sample: 382795 - ML-CL-21 6-12

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118489	Date Analyzed:	2015-01-07	Analyzed By:	LM
Prep Batch:	100094	Sample Preparation:	2015-01-05	Prepared By:	LM

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Total Manganese		1,2,3,4,5	**29.5**		mg/Kg	1	2.00

Sample: 382795 - ML-CL-21 6-12

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118437	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100147	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Sulfate		3,4,5	**263**		mg/Kg	5	25.0

Sample: 382796 - ML-N-21 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118564	Date Analyzed:	2015-01-09	Analyzed By:	RL
Prep Batch:	100249	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**105**	mg/Kg	1	25.0

Sample: 382796 - ML-N-21 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118490	Date Analyzed:	2015-01-07	Analyzed By:	LM
Prep Batch:	100094	Sample Preparation:	2015-01-05	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qr,Qs	1,2,3,4,5	**3130**	mg/Kg	100	0.500

Sample: 382796 - ML-N-21 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118489	Date Analyzed:	2015-01-07	Analyzed By:	LM
Prep Batch:	100094	Sample Preparation:	2015-01-05	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese		1,2,3,4,5	**23.4**	mg/Kg	1	2.00

Sample: 382796 - ML-N-21 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118437	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100147	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**1900**	mg/Kg	5	25.0

Sample: 382797 - ML-S-21 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118439	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100151	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**188**	mg/Kg	5	25.0

Sample: 382797 - ML-S-21 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118490	Date Analyzed:	2015-01-07	Analyzed By:	LM
Prep Batch:	100094	Sample Preparation:	2015-01-05	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qr,Qs	1,2,3,4,5	**2970**	mg/Kg	100	0.500

Sample: 382797 - ML-S-21 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118489	Date Analyzed:	2015-01-07	Analyzed By:	LM
Prep Batch:	100094	Sample Preparation:	2015-01-05	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese		1,2,3,4,5	**21.2**	mg/Kg	1	2.00

Sample: 382797 - ML-S-21 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118439	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100151	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**1740**	mg/Kg	5	25.0

Sample: 382798 - ML-BG-21 1 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118439	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100151	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	<25.0	mg/Kg	1	25.0

Sample: 382798 - ML-BG-21 1 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118490	Date Analyzed:	2015-01-07	Analyzed By:	LM
Prep Batch:	100094	Sample Preparation:	2015-01-05	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qr,Qs	1,2,3,4,5	**3360**	mg/Kg	100	0.500

Sample: 382798 - ML-BG-21 1 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118489	Date Analyzed:	2015-01-07	Analyzed By:	LM
Prep Batch:	100094	Sample Preparation:	2015-01-05	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese		1,2,3,4,5	**28.8**	mg/Kg	1	2.00

Sample: 382798 - ML-BG-21 1 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118439	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100151	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	<25.0	mg/Kg	1	25.0

Sample: 382799 - ML-CL-22 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118439	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100151	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	<25.0	mg/Kg	1	25.0

Sample: 382799 - ML-CL-22 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118490	Date Analyzed:	2015-01-07	Analyzed By:	LM
Prep Batch:	100094	Sample Preparation:	2015-01-05	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qr,Qs	1,2,3,4,5	**3690**	mg/Kg	100	0.500

Sample: 382799 - ML-CL-22 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118489	Date Analyzed:	2015-01-07	Analyzed By:	LM
Prep Batch:	100094	Sample Preparation:	2015-01-05	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese		1,2,3,4,5	**31.9**	mg/Kg	1	2.00

Sample: 382799 - ML-CL-22 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118439	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100151	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**37.3**	mg/Kg	1	25.0

Sample: 382800 - ML-CL-22 6-12

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118439	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100151	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	<25.0	mg/Kg	1	25.0

Sample: 382800 - ML-CL-22 6-12

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118490	Date Analyzed:	2015-01-07	Analyzed By:	LM
Prep Batch:	100094	Sample Preparation:	2015-01-05	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qr,Qs	1,2,3,4,5	**3550**	mg/Kg	100	0.500

Sample: 382800 - ML-CL-22 6-12

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118489	Date Analyzed:	2015-01-07	Analyzed By:	LM
Prep Batch:	100094	Sample Preparation:	2015-01-05	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese		1,2,3,4,5	**33.0**	mg/Kg	1	2.00

Sample: 382800 - ML-CL-22 6-12

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118439	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100151	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**25.1**	mg/Kg	1	25.0

Sample: 382801 - ML-N-22 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118439	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100151	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**26.0**	mg/Kg	1	25.0

Sample: 382801 - ML-N-22 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118490	Date Analyzed:	2015-01-07	Analyzed By:	LM
Prep Batch:	100094	Sample Preparation:	2015-01-05	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qr,Qs	1,2,3,4,5	**2550**	mg/Kg	100	0.500

Sample: 382801 - ML-N-22 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118489	Date Analyzed:	2015-01-07	Analyzed By:	LM
Prep Batch:	100094	Sample Preparation:	2015-01-05	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese		1,2,3,4,5	**19.5**	mg/Kg	1	2.00

Sample: 382801 - ML-N-22 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118439	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100151	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**296**	mg/Kg	1	25.0

Sample: 382802 - ML-S-22 0-6 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118439	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100151	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	**31.2**	mg/Kg	1	25.0

Sample: 382802 - ML-S-22 0-6 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118490	Date Analyzed:	2015-01-07	Analyzed By:	LM
Prep Batch:	100094	Sample Preparation:	2015-01-05	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qr,Qs	1,2,3,4,5	**2160**	mg/Kg	100	0.500

Sample: 382802 - ML-S-22 0-6 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118489	Date Analyzed:	2015-01-07	Analyzed By:	LM
Prep Batch:	100094	Sample Preparation:	2015-01-05	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese		1,2,3,4,5	**16.9**	mg/Kg	1	2.00

Sample: 382802 - ML-S-22 0-6 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118439	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100151	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**106**	mg/Kg	1	25.0

Sample: 382803 - ML-BG-22 1 in

Laboratory:	Lubbock				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118439	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100151	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride		3,4,5	<25.0	mg/Kg	1	25.0

Sample: 382803 - ML-BG-22 1 in

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118490	Date Analyzed:	2015-01-07	Analyzed By:	LM
Prep Batch:	100094	Sample Preparation:	2015-01-05	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Iron	Qr,Qs	1,2,3,4,5	**3940**	mg/Kg	100	0.500

Sample: 382803 - ML-BG-22 1 in

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010C	Prep Method:	S 3050B
QC Batch:	118489	Date Analyzed:	2015-01-07	Analyzed By:	LM
Prep Batch:	100094	Sample Preparation:	2015-01-05	Prepared By:	LM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Total Manganese		1,2,3,4,5	**41.0**	mg/Kg	1	2.00

Sample: 382803 - ML-BG-22 1 in

Laboratory:	Lubbock				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	118439	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100151	Sample Preparation:		Prepared By:	RL

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Sulfate		3,4,5	**44.2**	mg/Kg	1	25.0

Method Blanks

Method Blank (1) QC Batch: 118428

QC Batch:	118428	Date Analyzed:	2015-12-31	Analyzed By:	LM
Prep Batch:	100003	QC Preparation:	2014-12-28	Prepared By:	PM

Parameter	Flag	Cert	MDL Result	Units	RL
Total Manganese		1,2,3,4,5	<0.0957	mg/Kg	2

Method Blank (1) QC Batch: 118437

QC Batch:	118437	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100147	QC Preparation:	2015-01-05	Prepared By:	RL

Parameter	Flag	Cert	MDL Result	Units	RL
Chloride		3,4,5	<2.66	mg/Kg	25

Method Blank (1) QC Batch: 118437

QC Batch:	118437	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100147	QC Preparation:	2015-01-05	Prepared By:	RL

Parameter	Flag	Cert	MDL Result	Units	RL
Sulfate		3,4,5	<3.44	mg/Kg	25

Method Blank (1) QC Batch: 118438

QC Batch:	118438	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100150	QC Preparation:	2015-01-05	Prepared By:	RL

Parameter	Flag	Cert	MDL Result	Units	RL
Chloride		3,4,5	<2.66	mg/Kg	25

Method Blank (1) QC Batch: 118438

QC Batch: 118438 Date Analyzed: 2015-01-05 Analyzed By: RL
Prep Batch: 100150 QC Preparation: 2015-01-05 Prepared By: RL

Parameter	Flag	Cert	MDL Result	Units	RL
Sulfate		3,4,5	<3.44	mg/Kg	25

Method Blank (1) QC Batch: 118439

QC Batch: 118439 Date Analyzed: 2015-01-05 Analyzed By: RL
Prep Batch: 100151 QC Preparation: 2015-01-05 Prepared By: RL

Parameter	Flag	Cert	MDL Result	Units	RL
Chloride		3,4,5	<2.66	mg/Kg	25

Method Blank (1) QC Batch: 118439

QC Batch: 118439 Date Analyzed: 2015-01-05 Analyzed By: RL
Prep Batch: 100151 QC Preparation: 2015-01-05 Prepared By: RL

Parameter	Flag	Cert	MDL Result	Units	RL
Sulfate		3,4,5	<3.44	mg/Kg	25

Method Blank (1) QC Batch: 118442

QC Batch:	118442	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100152	QC Preparation:	2015-01-05	Prepared By:	RL

Parameter	Flag	Cert	MDL Result	Units	RL
Chloride		3,4,5	<2.66	mg/Kg	25

Method Blank (1) QC Batch: 118442

QC Batch:	118442	Date Analyzed:	2015-01-05	Analyzed By:	RL
Prep Batch:	100152	QC Preparation:	2015-01-05	Prepared By:	RL

Parameter	Flag	Cert	MDL Result	Units	RL
Sulfate		3,4,5	<3.44	mg/Kg	25

Method Blank (1) QC Batch: 118464

QC Batch:	118464	Date Analyzed:	2015-01-07	Analyzed By:	RR
Prep Batch:	100003	QC Preparation:	2014-12-28	Prepared By:	PM

Parameter	Flag	Cert	MDL Result	Units	RL
Total Iron		1,2,3,4,5	1.44	mg/Kg	0.5

Method Blank (1) QC Batch: 118470

QC Batch:	118470	Date Analyzed:	2015-01-07	Analyzed By:	RR
Prep Batch:	100016	QC Preparation:	2014-12-29	Prepared By:	PM

Parameter	Flag	Cert	MDL Result	Units	RL
Total Manganese		1,2,3,4,5	<0.0957	mg/Kg	2

Method Blank (1) QC Batch: 118479

QC Batch:	118479	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100016	QC Preparation:	2014-12-29	Prepared By:	PM

Parameter	Flag	Cert	MDL Result	Units	RL
Total Iron		1,2,3,4,5	10.1	mg/Kg	0.5

Method Blank (1) QC Batch: 118482

QC Batch:	118482	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100017	QC Preparation:	2014-12-29	Prepared By:	PM

Parameter	Flag	Cert	MDL Result	Units	RL
Total Manganese		1,2,3,4,5	<0.0957	mg/Kg	2

Method Blank (1) QC Batch: 118484

QC Batch:	118484	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100052	QC Preparation:	2014-12-30	Prepared By:	PM

Parameter	Flag	Cert	MDL Result	Units	RL
Total Manganese		1,2,3,4,5	<0.0957	mg/Kg	2

Method Blank (1) QC Batch: 118486

QC Batch:	118486	Date Analyzed:	2015-01-08	Analyzed By:	RR
Prep Batch:	100054	QC Preparation:	2014-12-30	Prepared By:	PM

Parameter	Flag	Cert	MDL Result	Units	RL
Total Manganese		1,2,3,4,5	<0.0957	mg/Kg	2

Method Blank (1) QC Batch: 118489

QC Batch:	118489	Date Analyzed:	2015-01-07	Analyzed By:	LM
Prep Batch:	100094	QC Preparation:	2015-01-05	Prepared By:	PM

Parameter	Flag	Cert	MDL Result	Units	RL
Total Manganese		1,2,3,4,5	<0.0957	mg/Kg	2

Method Blank (1) QC Batch: 118490

QC Batch:	118490	Date Analyzed:	2015-01-07	Analyzed By:	LM
Prep Batch:	100094	QC Preparation:	2015-01-05	Prepared By:	PM

Parameter	Flag	Cert	MDL Result	Units	RL
Total Iron		1,2,3,4,5	5.04	mg/Kg	0.5

Method Blank (1) QC Batch: 118527

QC Batch:	118527	Date Analyzed:	2015-01-08	Analyzed By:	LM
Prep Batch:	100017	QC Preparation:	2014-12-29	Prepared By:	PM

Parameter	Flag	Cert	MDL Result	Units	RL
Total Iron		1,2,3,4,5	4.12	mg/Kg	0.5

Method Blank (1) QC Batch: 118531

QC Batch:	118531	Date Analyzed:	2015-01-06	Analyzed By:	RL
Prep Batch:	100220	QC Preparation:	2015-01-06	Prepared By:	RL

Parameter	Flag	Cert	MDL Result	Units	RL
Chloride		3,4,5	<2.66	mg/Kg	25

Method Blank (1) QC Batch: 118531

QC Batch:	118531	Date Analyzed:	2015-01-06	Analyzed By:	RL
Prep Batch:	100220	QC Preparation:	2015-01-06	Prepared By:	RL

Parameter	Flag	Cert	MDL Result	Units	RL
Sulfate		3,4,5	<3.44	mg/Kg	25

Method Blank (1) QC Batch: 118533

QC Batch:	118533	Date Analyzed:	2015-01-06	Analyzed By:	RL
Prep Batch:	100222	QC Preparation:	2015-01-06	Prepared By:	RL

Parameter	Flag	Cert	MDL Result	Units	RL
Chloride		3,4,5	<2.66	mg/Kg	25

Method Blank (1) QC Batch: 118533

QC Batch:	118533	Date Analyzed:	2015-01-06	Analyzed By:	RL
Prep Batch:	100222	QC Preparation:	2015-01-06	Prepared By:	RL

Parameter	Flag	Cert	MDL Result	Units	RL
Sulfate		3,4,5	5.66	mg/Kg	25

Method Blank (1) QC Batch: 118536

QC Batch:	118536	Date Analyzed:	2015-01-08	Analyzed By:	RL
Prep Batch:	100223	QC Preparation:	2015-01-06	Prepared By:	RL

Parameter	Flag	Cert	MDL Result	Units	RL
Chloride		3,4,5	<2.66	mg/Kg	25

Method Blank (1) QC Batch: 118536

QC Batch: 118536 Date Analyzed: 2015-01-08 Analyzed By: RL
Prep Batch: 100223 QC Preparation: 2015-01-06 Prepared By: RL

Parameter	Flag	Cert	MDL Result	Units	RL
Sulfate		3,4,5	<3.44	mg/Kg	25

Method Blank (1) QC Batch: 118551

QC Batch: 118551 Date Analyzed: 2015-01-09 Analyzed By: RR
Prep Batch: 100052 QC Preparation: 2014-12-30 Prepared By: PM

Parameter	Flag	Cert	MDL Result	Units	RL
Total Iron		1,2,3,4,5	<0.0684	mg/Kg	0.5

Method Blank (1) QC Batch: 118564

QC Batch: 118564 Date Analyzed: 2015-01-09 Analyzed By: RL
Prep Batch: 100249 QC Preparation: 2015-01-09 Prepared By: RL

Parameter	Flag	Cert	MDL Result	Units	RL
Chloride		3,4,5	<2.66	mg/Kg	25

Method Blank (1) QC Batch: 118564

QC Batch: 118564 Date Analyzed: 2015-01-09 Analyzed By: RL
Prep Batch: 100249 QC Preparation: 2015-01-09 Prepared By: RL

Parameter	Flag	Cert	MDL Result	Units	RL
Sulfate		3,4,5	<3.44	mg/Kg	25

Method Blank (1) QC Batch: 118565

QC Batch:	118565	Date Analyzed:	2015-01-09	Analyzed By:	RL
Prep Batch:	100250	QC Preparation:	2015-01-09	Prepared By:	RL

Parameter	Flag	Cert	MDL Result	Units	RL
Chloride		3,4,5	<2.66	mg/Kg	25

Method Blank (1) QC Batch: 118565

QC Batch:	118565	Date Analyzed:	2015-01-09	Analyzed By:	RL
Prep Batch:	100250	QC Preparation:	2015-01-09	Prepared By:	RL

Parameter	Flag	Cert	MDL Result	Units	RL
Sulfate		3,4,5	<3.44	mg/Kg	25

Method Blank (1) QC Batch: 118574

QC Batch:	118574	Date Analyzed:	2015-01-09	Analyzed By:	LM
Prep Batch:	100054	QC Preparation:	2014-12-30	Prepared By:	PM

Parameter	Flag	Cert	MDL Result	Units	RL
Total Iron		1,2,3,4,5	3.24	mg/Kg	0.5

Method Blank (1) QC Batch: 118588

QC Batch:	118588	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100268	QC Preparation:	2015-01-12	Prepared By:	RL

Parameter	Flag	Cert	MDL Result	Units	RL
Chloride		3,4,5	<2.66	mg/Kg	25

Method Blank (1) QC Batch: 118588

QC Batch:	118588	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100268	QC Preparation:	2015-01-12	Prepared By:	RL

Parameter	Flag	Cert	MDL Result	Units	RL
Sulfate		3,4,5	<3.44	mg/Kg	25

Method Blank (1) QC Batch: 118589

QC Batch:	118589	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100269	QC Preparation:	2015-01-12	Prepared By:	RL

Parameter	Flag	Cert	MDL Result	Units	RL
Chloride		3,4,5	<2.66	mg/Kg	25

Method Blank (1) QC Batch: 118589

QC Batch:	118589	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100269	QC Preparation:	2015-01-12	Prepared By:	RL

Parameter	Flag	Cert	MDL Result	Units	RL
Sulfate		3,4,5	<3.44	mg/Kg	25

Method Blank (1) QC Batch: 118590

QC Batch:	118590	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100270	QC Preparation:	2015-01-12	Prepared By:	RL

Parameter	Flag	Cert	MDL Result	Units	RL
Chloride		3,4,5	<2.66	mg/Kg	25

Method Blank (1) QC Batch: 118590

QC Batch:	118590	Date Analyzed:	2015-01-12	Analyzed By:	RL
Prep Batch:	100270	QC Preparation:	2015-01-12	Prepared By:	RL

Parameter	Flag	Cert	MDL Result	Units	RL
Sulfate		3,4,5	<3.44	mg/Kg	25

Method Blank (1) QC Batch: 118620

QC Batch:	118620	Date Analyzed:	2015-01-13	Analyzed By:	RL
Prep Batch:	100297	QC Preparation:	2015-01-13	Prepared By:	RL

Parameter	Flag	Cert	MDL Result	Units	RL
Chloride		3,4,5	<2.66	mg/Kg	25

Method Blank (1) QC Batch: 118620

QC Batch:	118620	Date Analyzed:	2015-01-13	Analyzed By:	RL
Prep Batch:	100297	QC Preparation:	2015-01-13	Prepared By:	RL

Parameter	Flag	Cert	MDL Result	Units	RL
Sulfate		3,4,5	<3.44	mg/Kg	25

Method Blank (1) QC Batch: 118639

QC Batch:	118639	Date Analyzed:	2015-01-14	Analyzed By:	RL
Prep Batch:	100314	QC Preparation:	2015-01-14	Prepared By:	RL

Parameter	Flag	Cert	MDL Result	Units	RL
Chloride		3,4,5	<2.66	mg/Kg	25

Method Blank (1) QC Batch: 118639

QC Batch:	118639	Date Analyzed:	2015-01-14	Analyzed By:	RL
Prep Batch:	100314	QC Preparation:	2015-01-14	Prepared By:	RL

Parameter	Flag	Cert	MDL Result	Units	RL
Sulfate		3,4,5	<3.44	mg/Kg	25

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 118428 Date Analyzed: 2015-12-31 Analyzed By: LM
Prep Batch: 100003 QC Preparation: 2014-12-28 Prepared By: PM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Manganese		1,2,3,4,5	24.9	mg/Kg	1	25.0	<0.0957	100	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Manganese		1,2,3,4,5	24.8	mg/Kg	1	25.0	<0.0957	99	85 - 115	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 118437 Date Analyzed: 2015-01-05 Analyzed By: RL
Prep Batch: 100147 QC Preparation: 2015-01-05 Prepared By: RL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		3,4,5	241	mg/Kg	1	250	<2.66	96	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		3,4,5	258	mg/Kg	1	250	<2.66	103	90 - 110	7	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 118437 Date Analyzed: 2015-01-05 Analyzed By: RL
Prep Batch: 100147 QC Preparation: 2015-01-05 Prepared By: RL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		3,4,5	252	mg/Kg	1	250	<3.44	101	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate		3,4,5	265	mg/Kg	1	250	<3.44	106	90 - 110	5	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 118438 Date Analyzed: 2015-01-05 Analyzed By: RL
Prep Batch: 100150 QC Preparation: 2015-01-05 Prepared By: RL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		3,4,5	229	mg/Kg	1	250	<2.66	92	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		3,4,5	249	mg/Kg	1	250	<2.66	100	90 - 110	8	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 118438 Date Analyzed: 2015-01-05 Analyzed By: RL
Prep Batch: 100150 QC Preparation: 2015-01-05 Prepared By: RL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		3,4,5	233	mg/Kg	1	250	<3.44	93	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate		3,4,5	248	mg/Kg	1	250	<3.44	99	90 - 110	6	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 118439 Date Analyzed: 2015-01-05 Analyzed By: RL
Prep Batch: 100151 QC Preparation: 2015-01-05 Prepared By: RL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		3,4,5	254	mg/Kg	1	250	<2.66	102	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		3,4,5	251	mg/Kg	1	250	<2.66	100	90 - 110	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 118439 Date Analyzed: 2015-01-05 Analyzed By: RL
Prep Batch: 100151 QC Preparation: 2015-01-05 Prepared By: RL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		3,4,5	251	mg/Kg	1	250	<3.44	100	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate		3,4,5	248	mg/Kg	1	250	<3.44	99	90 - 110	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 118442 Date Analyzed: 2015-01-05 Analyzed By: RL
Prep Batch: 100152 QC Preparation: 2015-01-05 Prepared By: RL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		3,4,5	247	mg/Kg	1	250	<2.66	99	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		3,4,5	244	mg/Kg	1	250	<2.66	98	90 - 110	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 118442 Date Analyzed: 2015-01-05 Analyzed By: RL
Prep Batch: 100152 QC Preparation: 2015-01-05 Prepared By: RL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		3,4,5	243	mg/Kg	1	250	<3.44	97	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate		3,4,5	240	mg/Kg	1	250	<3.44	96	90 - 110	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 118464 Date Analyzed: 2015-01-07 Analyzed By: RR
Prep Batch: 100003 QC Preparation: 2014-12-28 Prepared By: PM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Iron		1,2,3,4,5	57.1	mg/Kg	1	50.0	1.44	111	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Iron	Qs	Qs 1,2,3,4,5	60.2	mg/Kg	1	50.0	1.44	118	85 - 115	5	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 118470 Date Analyzed: 2015-01-07 Analyzed By: RR
Prep Batch: 100016 QC Preparation: 2014-12-29 Prepared By: PM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Manganese		1,2,3,4,5	28.4	mg/Kg	1	25.0	<0.0957	114	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Manganese	Qs Qs	1,2,3,4,5	29.0	mg/Kg	1	25.0	<0.0957	116	85 - 115	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 118479 Date Analyzed: 2015-01-08 Analyzed By: RR
Prep Batch: 100016 QC Preparation: 2014-12-29 Prepared By: PM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Iron		1,2,3,4,5	59.3	mg/Kg	1	50.0	10.1	98	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Iron		1,2,3,4,5	58.5	mg/Kg	1	50.0	10.1	97	85 - 115	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 118482 Date Analyzed: 2015-01-08 Analyzed By: RR
Prep Batch: 100017 QC Preparation: 2014-12-29 Prepared By: PM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Manganese		1,2,3,4,5	27.5	mg/Kg	1	25.0	<0.0957	110	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Manganese		1,2,3,4,5	27.4	mg/Kg	1	25.0	<0.0957	110	85 - 115	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 118484 Date Analyzed: 2015-01-08 Analyzed By: RR
Prep Batch: 100052 QC Preparation: 2014-12-30 Prepared By: PM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Manganese		1,2,3,4,5	26.4	mg/Kg	1	25.0	<0.0957	106	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Manganese		1,2,3,4,5	28.7	mg/Kg	1	25.0	<0.0957	115	85 - 115	8	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 118486 Date Analyzed: 2015-01-08 Analyzed By: RR
Prep Batch: 100054 QC Preparation: 2014-12-30 Prepared By: PM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Manganese	Qs Qs	1,2,3,4,5	–	mg/Kg	1	25.0	<0.0957	115	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Manganese		1,2,3,4,5	28.7	mg/Kg	1	25.0	<0.0957	115	85 - 115	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 118489 Date Analyzed: 2015-01-07 Analyzed By: LM
Prep Batch: 100094 QC Preparation: 2015-01-05 Prepared By: PM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Manganese		1,2,3,4,5	22.8	mg/Kg	1	25.0	<0.0957	91	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Manganese		1,2,3,4,5	23.3	mg/Kg	1	25.0	<0.0957	93	85 - 115	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 118490 Date Analyzed: 2015-01-07 Analyzed By: LM
Prep Batch: 100094 QC Preparation: 2015-01-05 Prepared By: PM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Iron		1,2,3,4,5	55.6	mg/Kg	1	50.0	5.044	101	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Iron	Qr,Qs	Qr,Qs 1,2,3,4,5	24.0	mg/Kg	1	50.0	5.044	38	85 - 115	79	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 118527 Date Analyzed: 2015-01-08 Analyzed By: LM
Prep Batch: 100017 QC Preparation: 2014-12-29 Prepared By: PM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Iron	Qs	Qs 1,2,3,4,5	67.8	mg/Kg	1	50.0	4.116	127	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Iron		1,2,3,4,5	60.2	mg/Kg	1	50.0	4.116	112	85 - 115	12	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 118531 Date Analyzed: 2015-01-06 Analyzed By: RL
Prep Batch: 100220 QC Preparation: 2015-01-06 Prepared By: RL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		3,4,5	270	mg/Kg	1	250	<2.66	108	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		3,4,5	227	mg/Kg	1	250	<2.66	91	90 - 110	17	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 118531 Date Analyzed: 2015-01-06 Analyzed By: RL
Prep Batch: 100220 QC Preparation: 2015-01-06 Prepared By: RL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		3,4,5	274	mg/Kg	1	250	<3.44	110	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate		3,4,5	228	mg/Kg	1	250	<3.44	91	90 - 110	18	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 118533 Date Analyzed: 2015-01-06 Analyzed By: RL
Prep Batch: 100222 QC Preparation: 2015-01-06 Prepared By: RL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		3,4,5	228	mg/Kg	1	250	<2.66	91	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		3,4,5	229	mg/Kg	1	250	<2.66	92	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 118533 Date Analyzed: 2015-01-06 Analyzed By: RL
Prep Batch: 100222 QC Preparation: 2015-01-06 Prepared By: RL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		3,4,5	235	mg/Kg	1	250	5.66	92	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate		3,4,5	234	mg/Kg	1	250	5.66	91	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 118536 Date Analyzed: 2015-01-08 Analyzed By: RL
Prep Batch: 100223 QC Preparation: 2015-01-06 Prepared By: RL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		3,4,5	249	mg/Kg	1	250	<2.66	100	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		3,4,5	230	mg/Kg	1	250	<2.66	92	90 - 110	8	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 118536 Date Analyzed: 2015-01-08 Analyzed By: RL
Prep Batch: 100223 QC Preparation: 2015-01-06 Prepared By: RL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		3,4,5	268	mg/Kg	1	250	<3.44	107	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate		3,4,5	243	mg/Kg	1	250	<3.44	97	90 - 110	10	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 118551 Date Analyzed: 2015-01-09 Analyzed By: RR
Prep Batch: 100052 QC Preparation: 2014-12-30 Prepared By: PM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Iron		1,2,3,4,5	56.6	mg/Kg	1	50.0	1.056	111	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Iron		1,2,3,4,5	57.2	mg/Kg	1	50.0	1.056	112	85 - 115	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 118564 Date Analyzed: 2015-01-09 Analyzed By: RL
Prep Batch: 100249 QC Preparation: 2015-01-09 Prepared By: RL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		3,4,5	255	mg/Kg	1	250	<2.66	102	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		3,4,5	255	mg/Kg	1	250	<2.66	102	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 118564 Date Analyzed: 2015-01-09 Analyzed By: RL
Prep Batch: 100249 QC Preparation: 2015-01-09 Prepared By: RL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		3,4,5	249	mg/Kg	1	250	<3.44	100	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate		3,4,5	249	mg/Kg	1	250	<3.44	100	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 118565 Date Analyzed: 2015-01-09 Analyzed By: RL
Prep Batch: 100250 QC Preparation: 2015-01-09 Prepared By: RL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		3,4,5	251	mg/Kg	1	250	<2.66	100	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		3,4,5	251	mg/Kg	1	250	<2.66	100	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 118565 Date Analyzed: 2015-01-09 Analyzed By: RL
Prep Batch: 100250 QC Preparation: 2015-01-09 Prepared By: RL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		3,4,5	246	mg/Kg	1	250	<3.44	98	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate		3,4,5	245	mg/Kg	1	250	<3.44	98	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 118574 Date Analyzed: 2015-01-09 Analyzed By: LM
Prep Batch: 100054 QC Preparation: 2014-12-30 Prepared By: PM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Iron		1,2,3,4,5	58.7	mg/Kg	1	50.0	3.145	111	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Iron		1,2,3,4,5	57.7	mg/Kg	1	50.0	3.145	109	85 - 115	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 118588 Date Analyzed: 2015-01-12 Analyzed By: RL
Prep Batch: 100268 QC Preparation: 2015-01-12 Prepared By: RL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		3,4,5	246	mg/Kg	1	250	<2.66	98	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		3,4,5	248	mg/Kg	1	250	<2.66	99	90 - 110	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 118588 Date Analyzed: 2015-01-12 Analyzed By: RL
Prep Batch: 100268 QC Preparation: 2015-01-12 Prepared By: RL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		3,4,5	247	mg/Kg	1	250	<3.44	99	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate		3,4,5	247	mg/Kg	1	250	<3.44	99	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 118589 Date Analyzed: 2015-01-12 Analyzed By: RL
Prep Batch: 100269 QC Preparation: 2015-01-12 Prepared By: RL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		3,4,5	248	mg/Kg	1	250	<2.66	99	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		3,4,5	248	mg/Kg	1	250	<2.66	99	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 118589 Date Analyzed: 2015-01-12 Analyzed By: RL
Prep Batch: 100269 QC Preparation: 2015-01-12 Prepared By: RL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		3,4,5	251	mg/Kg	1	250	<3.44	100	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate		3,4,5	251	mg/Kg	1	250	<3.44	100	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 118590 Date Analyzed: 2015-01-12 Analyzed By: RL
Prep Batch: 100270 QC Preparation: 2015-01-12 Prepared By: RL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		3,4,5	249	mg/Kg	1	250	<2.66	100	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		3,4,5	244	mg/Kg	1	250	<2.66	98	90 - 110	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 118590 Date Analyzed: 2015-01-12 Analyzed By: RL
Prep Batch: 100270 QC Preparation: 2015-01-12 Prepared By: RL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		3,4,5	252	mg/Kg	1	250	<3.44	101	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate		3,4,5	247	mg/Kg	1	250	<3.44	99	90 - 110	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 118620 Date Analyzed: 2015-01-13 Analyzed By: RL
Prep Batch: 100297 QC Preparation: 2015-01-13 Prepared By: RL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		3,4,5	268	mg/Kg	1	250	<2.66	107	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		3,4,5	268	mg/Kg	1	250	<2.66	107	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 118620 Date Analyzed: 2015-01-13 Analyzed By: RL
Prep Batch: 100297 QC Preparation: 2015-01-13 Prepared By: RL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		3,4,5	254	mg/Kg	1	250	<3.44	102	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate		3,4,5	255	mg/Kg	1	250	<3.44	102	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 118639 Date Analyzed: 2015-01-14 Analyzed By: RL
Prep Batch: 100314 QC Preparation: 2015-01-14 Prepared By: RL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		3,4,5	245	mg/Kg	1	250	<2.66	98	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		3,4,5	242	mg/Kg	1	250	<2.66	97	90 - 110	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 118639 Date Analyzed: 2015-01-14 Analyzed By: RL
Prep Batch: 100314 QC Preparation: 2015-01-14 Prepared By: RL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		3,4,5	239	mg/Kg	1	250	<3.44	96	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate		3,4,5	236	mg/Kg	1	250	<3.44	94	90 - 110	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes

Matrix Spike (xMS-1) Spiked Sample: 382479

QC Batch: 118428 Date Analyzed: 2015-12-31 Analyzed By: LM
Prep Batch: 100003 QC Preparation: 2014-12-28 Prepared By: PM

Param		F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Manganese	Qs	Qs	1,2,3,4,5	189	mg/Kg	1	25.0	180.4	34	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param		F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Manganese	Qs	Qs	1,2,3,4,5	187	mg/Kg	1	25.0	180.4	26	75 - 125	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 382796

QC Batch: 118437 Date Analyzed: 2015-01-05 Analyzed By: RL
Prep Batch: 100147 QC Preparation: 2015-01-05 Prepared By: RL

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		3,4,5	1200	mg/Kg	5	1250	126	86	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		3,4,5	1210	mg/Kg	5	1250	126	87	80 - 120	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 382796

QC Batch: 118437 Date Analyzed: 2015-01-05 Analyzed By: RL
Prep Batch: 100147 QC Preparation: 2015-01-05 Prepared By: RL

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		3,4,5	3270	mg/Kg	5	1250	1900	110	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate		3,4,5	3370	mg/Kg	5	1250	1900	118	80 - 120	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 382777

QC Batch: 118438 Date Analyzed: 2015-01-05 Analyzed By: RL
Prep Batch: 100150 QC Preparation: 2015-01-05 Prepared By: RL

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		3,4,5	1510	mg/Kg	5	1250	307	96	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		3,4,5	1490	mg/Kg	5	1250	307	95	80 - 120	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 382777

QC Batch: 118438 Date Analyzed: 2015-01-05 Analyzed By: RL
Prep Batch: 100150 QC Preparation: 2015-01-05 Prepared By: RL

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		3,4,5	2800	mg/Kg	5	1250	1510	103	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate		3,4,5	2790	mg/Kg	5	1250	1510	102	80 - 120	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 382818

QC Batch: 118439 Date Analyzed: 2015-01-05 Analyzed By: RL
Prep Batch: 100151 QC Preparation: 2015-01-05 Prepared By: RL

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		3,4,5	200	mg/Kg	1	208	2.7	95	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		3,4,5	200	mg/Kg	1	208	2.7	95	80 - 120	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 382818

QC Batch: 118439 Date Analyzed: 2015-01-05 Analyzed By: RL
Prep Batch: 100151 QC Preparation: 2015-01-05 Prepared By: RL

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		3,4,5	204	mg/Kg	1	208	12.7	92	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate		3,4,5	203	mg/Kg	1	208	12.7	91	80 - 120	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 382787

QC Batch: 118442 Date Analyzed: 2015-01-05 Analyzed By: RL
Prep Batch: 100152 QC Preparation: 2015-01-05 Prepared By: RL

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		3,4,5	1370	mg/Kg	5	1250	123	100	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		3,4,5	1340	mg/Kg	5	1250	123	97	80 - 120	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 382787

QC Batch: 118442 Date Analyzed: 2015-01-05 Analyzed By: RL
Prep Batch: 100152 QC Preparation: 2015-01-05 Prepared By: RL

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		3,4,5	2640	mg/Kg	5	1250	1180	117	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate		3,4,5	2590	mg/Kg	5	1250	1180	113	80 - 120	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (xMS-1) Spiked Sample: 382479

QC Batch: 118464 Date Analyzed: 2015-01-07 Analyzed By: RR
Prep Batch: 100003 QC Preparation: 2014-12-28 Prepared By: PM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Iron		1,2,3,4,5	9600	mg/Kg	1	500	9090	102	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Iron		1,2,3,4,5	9570	mg/Kg	1	500	9090	96	75 - 125	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 382710

QC Batch: 118470 Date Analyzed: 2015-01-07 Analyzed By: RR
Prep Batch: 100016 QC Preparation: 2014-12-29 Prepared By: PM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Manganese		1,2,3,4,5	63.7	mg/Kg	1	25.0	34.1	118	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Manganese		1,2,3,4,5	64.6	mg/Kg	1	25.0	34.1	122	75 - 125	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 382710

QC Batch: 118479 Date Analyzed: 2015-01-08 Analyzed By: RR
Prep Batch: 100016 QC Preparation: 2014-12-29 Prepared By: PM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Iron [1] Qs	Qs	1,2,3,4,5	4040	mg/Kg	100	5000	3870	3	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Iron Qs	Qs	1,2,3,4,5	4070	mg/Kg	100	5000	3870	4	75 - 125	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 382730

QC Batch: 118482 Date Analyzed: 2015-01-08 Analyzed By: RR
Prep Batch: 100017 QC Preparation: 2014-12-29 Prepared By: PM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Manganese		1,2,3,4,5	90.7	mg/Kg	1	25.0	63.3	110	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Manganese Qs	Qs	1,2,3,4,5	95.2	mg/Kg	1	25.0	63.3	128	75 - 125	5	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 382750

QC Batch: 118484 Date Analyzed: 2015-01-08 Analyzed By: RR
Prep Batch: 100052 QC Preparation: 2014-12-30 Prepared By: PM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Manganese		1,2,3,4,5	64.3	mg/Kg	1	25.0	35.7	114	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Manganese		1,2,3,4,5	65.6	mg/Kg	1	25.0	35.7	120	75 - 125	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 382770

QC Batch: 118486 Date Analyzed: 2015-01-08 Analyzed By: RR
Prep Batch: 100054 QC Preparation: 2014-12-30 Prepared By: PM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Manganese		1,2,3,4,5	61.0	mg/Kg	1	25.0	36.4	98	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Manganese		1,2,3,4,5	60.7	mg/Kg	1	25.0	36.4	97	75 - 125	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 382790

QC Batch: 118489 Date Analyzed: 2015-01-07 Analyzed By: LM
Prep Batch: 100094 QC Preparation: 2015-01-05 Prepared By: PM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Manganese		1,2,3,4,5	47.2	mg/Kg	1	25.0	26.41	83	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Manganese		1,2,3,4,5	47.8	mg/Kg	1	25.0	26.41	86	75 - 125	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 382790

QC Batch: 118490 Date Analyzed: 2015-01-07 Analyzed By: LM
Prep Batch: 100094 QC Preparation: 2015-01-05 Prepared By: PM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Iron	Qs	Qs 1,2,3,4,5	3460	mg/Kg	1	50.0	3219	482	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Iron [2]	Qs	Qs 1,2,3,4,5	3210	mg/Kg	1	50.0	3219	-18	75 - 125	8	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 382730

QC Batch: 118527 Date Analyzed: 2015-01-08 Analyzed By: LM
Prep Batch: 100017 QC Preparation: 2014-12-29 Prepared By: PM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Iron	Qs	Qs 1,2,3,4,5	5770	mg/Kg	100	50.0	5583	374	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Iron	Qs	Qs 1,2,3,4,5	5610	mg/Kg	100	50.0	5583	54	75 - 125	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 382767

QC Batch: 118531 Date Analyzed: 2015-01-06 Analyzed By: RL
Prep Batch: 100220 QC Preparation: 2015-01-06 Prepared By: RL

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		3,4,5	1330	mg/Kg	5	1250	277	84	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		3,4,5	1380	mg/Kg	5	1250	277	88	80 - 120	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 382767

QC Batch: 118531 Date Analyzed: 2015-01-06 Analyzed By: RL
Prep Batch: 100220 QC Preparation: 2015-01-06 Prepared By: RL

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		3,4,5	1790	mg/Kg	5	1250	690	88	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate		3,4,5	1860	mg/Kg	5	1250	690	94	80 - 120	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 382757

QC Batch: 118533 Date Analyzed: 2015-01-06 Analyzed By: RL
Prep Batch: 100222 QC Preparation: 2015-01-06 Prepared By: RL

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		3,4,5	1410	mg/Kg	5	1250	277	91	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		3,4,5	1400	mg/Kg	5	1250	277	90	80 - 120	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 382757

QC Batch: 118533 Date Analyzed: 2015-01-06 Analyzed By: RL
Prep Batch: 100222 QC Preparation: 2015-01-06 Prepared By: RL

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		3,4,5	2980	mg/Kg	5	1250	1740	99	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate		3,4,5	3010	mg/Kg	5	1250	1740	102	80 - 120	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 382747

QC Batch: 118536 Date Analyzed: 2015-01-08 Analyzed By: RL
Prep Batch: 100223 QC Preparation: 2015-01-06 Prepared By: RL

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride Qs	Qs	3,4,5	1860	mg/Kg	5	1250	97.2	141	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride Qr	Qr	3,4,5	1210	mg/Kg	5	1250	97.2	89	80 - 120	42	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 382747

QC Batch: 118536 Date Analyzed: 2015-01-08 Analyzed By: RL
Prep Batch: 100223 QC Preparation: 2015-01-06 Prepared By: RL

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate Qs	Qs	3,4,5	3850	mg/Kg	5	1250	1870	158	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate		3,4,5	3170	mg/Kg	5	1250	1870	104	80 - 120	19	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 382750

QC Batch: 118551 Date Analyzed: 2015-01-09 Analyzed By: RR
Prep Batch: 100052 QC Preparation: 2014-12-30 Prepared By: PM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Iron	Qs	Qs 1,2,3,4,5	3660	mg/Kg	100	50.0	3460	400	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Iron	Qs	Qs 1,2,3,4,5	3490	mg/Kg	100	50.0	3460	60	75 - 125	5	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 382737

QC Batch: 118564 Date Analyzed: 2015-01-09 Analyzed By: RL
Prep Batch: 100249 QC Preparation: 2015-01-09 Prepared By: RL

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		3,4,5	1400	mg/Kg	5	1250	166	99	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		3,4,5	1380	mg/Kg	5	1250	166	97	80 - 120	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 382737

QC Batch: 118564 Date Analyzed: 2015-01-09 Analyzed By: RL
Prep Batch: 100249 QC Preparation: 2015-01-09 Prepared By: RL

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		3,4,5	4220	mg/Kg	5	1250	2770	116	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate		3,4,5	4190	mg/Kg	5	1250	2770	114	80 - 120	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 382702

QC Batch: 118565 Date Analyzed: 2015-01-09 Analyzed By: RL
Prep Batch: 100250 QC Preparation: 2015-01-09 Prepared By: RL

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		3,4,5	1380	mg/Kg	5	1250	114	101	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		3,4,5	1360	mg/Kg	5	1250	114	100	80 - 120	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 382702

QC Batch: 118565 Date Analyzed: 2015-01-09 Analyzed By: RL
Prep Batch: 100250 QC Preparation: 2015-01-09 Prepared By: RL

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		3,4,5	2020	mg/Kg	5	1250	700	106	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate		3,4,5	2010	mg/Kg	5	1250	700	105	80 - 120	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 382770

QC Batch: 118574 Date Analyzed: 2015-01-09 Analyzed By: LM
Prep Batch: 100054 QC Preparation: 2014-12-30 Prepared By: PM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Iron	Qs	Qs 1,2,3,4,5	3740	mg/Kg	100	50.0	3412	656	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Iron	Qs	Qs 1,2,3,4,5	3640	mg/Kg	100	50.0	3412	456	75 - 125	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 382711

QC Batch: 118588 Date Analyzed: 2015-01-12 Analyzed By: RL
Prep Batch: 100268 QC Preparation: 2015-01-12 Prepared By: RL

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		3,4,5	1590	mg/Kg	5	1250	290	104	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		3,4,5	1580	mg/Kg	5	1250	290	103	80 - 120	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 382711

QC Batch: 118588 Date Analyzed: 2015-01-12 Analyzed By: RL
Prep Batch: 100268 QC Preparation: 2015-01-12 Prepared By: RL

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		3,4,5	2420	mg/Kg	5	1250	1060	109	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate		3,4,5	2390	mg/Kg	5	1250	1060	106	80 - 120	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 382721

QC Batch: 118589 Date Analyzed: 2015-01-12 Analyzed By: RL
Prep Batch: 100269 QC Preparation: 2015-01-12 Prepared By: RL

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		3,4,5	1550	mg/Kg	5	1250	285	101	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		3,4,5	1550	mg/Kg	5	1250	285	101	80 - 120	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 382721

QC Batch: 118589 Date Analyzed: 2015-01-12 Analyzed By: RL
Prep Batch: 100269 QC Preparation: 2015-01-12 Prepared By: RL

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		3,4,5	3950	mg/Kg	5	1250	2480	118	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate		3,4,5	3960	mg/Kg	5	1250	2480	118	80 - 120	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 382731

QC Batch: 118590 Date Analyzed: 2015-01-12 Analyzed By: RL
Prep Batch: 100270 QC Preparation: 2015-01-12 Prepared By: RL

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		3,4,5	2000	mg/Kg	5	1250	609	111	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		3,4,5	2070	mg/Kg	5	1250	609	117	80 - 120	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 382731

QC Batch: 118590 Date Analyzed: 2015-01-12 Analyzed By: RL
Prep Batch: 100270 QC Preparation: 2015-01-12 Prepared By: RL

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		3,4,5	3020	mg/Kg	5	1250	1600	114	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate		3,4,5	3030	mg/Kg	5	1250	1600	114	80 - 120	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 382862

QC Batch: 118620 Date Analyzed: 2015-01-13 Analyzed By: RL
Prep Batch: 100297 QC Preparation: 2015-01-13 Prepared By: RL

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		3,4,5	1360	mg/Kg	5	1250	154	96	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		3,4,5	1380	mg/Kg	5	1250	154	98	80 - 120	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 382862

QC Batch: 118620 Date Analyzed: 2015-01-13 Analyzed By: RL
Prep Batch: 100297 QC Preparation: 2015-01-13 Prepared By: RL

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		3,4,5	2090	mg/Kg	5	1250	859	98	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate		3,4,5	2090	mg/Kg	5	1250	859	98	80 - 120	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 382892

QC Batch: 118639 Date Analyzed: 2015-01-14 Analyzed By: RL
Prep Batch: 100314 QC Preparation: 2015-01-14 Prepared By: RL

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		3,4,5	1380	mg/Kg	5	1250	183	96	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		3,4,5	1370	mg/Kg	5	1250	183	95	80 - 120	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 382892

QC Batch: 118639 Date Analyzed: 2015-01-14 Analyzed By: RL
Prep Batch: 100314 QC Preparation: 2015-01-14 Prepared By: RL

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		3,4,5	1580	mg/Kg	5	1250	387	95	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate		3,4,5	1570	mg/Kg	5	1250	387	95	80 - 120	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Calibration Standards

Standard (ICV-1)

QC Batch: 118428 Date Analyzed: 2015-12-31 Analyzed By: LM

Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Manganese		1,2,3,4,5	mg/Kg	1.00	0.999	100	90 - 110	2015-12-31

Standard (CCV-1)

QC Batch: 118428 Date Analyzed: 2015-12-31 Analyzed By: LM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Manganese		1,2,3,4,5	mg/Kg	1.00	0.967	97	90 - 110	2015-12-31

Standard (CCV-1)

QC Batch: 118437 Date Analyzed: 2015-01-05 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		3,4,5	mg/Kg	25.0	24.1	96	90 - 110	2015-01-05

Standard (CCV-1)

QC Batch: 118437 Date Analyzed: 2015-01-05 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		3,4,5	mg/Kg	25.0	24.7	99	90 - 110	2015-01-05

Standard (CCV-2)

QC Batch: 118437 Date Analyzed: 2015-01-05 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		3,4,5	mg/Kg	25.0	25.3	101	90 - 110	2015-01-05

Standard (CCV-2)

QC Batch: 118437 Date Analyzed: 2015-01-05 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		3,4,5	mg/Kg	25.0	26.2	105	90 - 110	2015-01-05

Standard (CCV-1)

QC Batch: 118438 Date Analyzed: 2015-01-05 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		3,4,5	mg/Kg	25.0	24.5	98	90 - 110	2015-01-05

Standard (CCV-1)

QC Batch: 118438 Date Analyzed: 2015-01-05 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		3,4,5	mg/Kg	25.0	24.8	99	90 - 110	2015-01-05

Standard (CCV-2)

QC Batch: 118438 Date Analyzed: 2015-01-05 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		3,4,5	mg/Kg	25.0	23.1	92	90 - 110	2015-01-05

Standard (CCV-2)

QC Batch: 118438 Date Analyzed: 2015-01-05 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		3,4,5	mg/Kg	25.0	23.5	94	90 - 110	2015-01-05

Standard (CCV-1)

QC Batch: 118439 Date Analyzed: 2015-01-05 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		3,4,5	mg/Kg	25.0	23.1	92	90 - 110	2015-01-05

Standard (CCV-1)

QC Batch: 118439 Date Analyzed: 2015-01-05 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		3,4,5	mg/Kg	25.0	23.5	94	90 - 110	2015-01-05

Standard (CCV-2)

QC Batch: 118439 Date Analyzed: 2015-01-05 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		3,4,5	mg/Kg	25.0	25.2	101	90 - 110	2015-01-05

Standard (CCV-2)

QC Batch: 118439 Date Analyzed: 2015-01-05 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		3,4,5	mg/Kg	25.0	25.0	100	90 - 110	2015-01-05

Standard (CCV-1)

QC Batch: 118442 Date Analyzed: 2015-01-05 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		3,4,5	mg/Kg	25.0	25.2	101	90 - 110	2015-01-05

Standard (CCV-1)

QC Batch: 118442 Date Analyzed: 2015-01-05 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		3,4,5	mg/Kg	25.0	25.0	100	90 - 110	2015-01-05

Standard (CCV-2)

QC Batch: 118442 Date Analyzed: 2015-01-05 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		3,4,5	mg/Kg	25.0	24.1	96	90 - 110	2015-01-05

Standard (CCV-2)

QC Batch: 118442 Date Analyzed: 2015-01-05 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		3,4,5	mg/Kg	25.0	23.6	94	90 - 110	2015-01-05

Standard (ICV-1)

QC Batch: 118464 Date Analyzed: 2015-01-07 Analyzed By: RR

Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Iron		1,2,3,4,5	mg/Kg	1.00	0.996	100	90 - 110	2015-01-07

Standard (CCV-1)

QC Batch: 118464 Date Analyzed: 2015-01-07 Analyzed By: RR

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Iron		1,2,3,4,5	mg/Kg	1.00	1.01	101	90 - 110	2015-01-07

Standard (ICV-1)

QC Batch: 118470 Date Analyzed: 2015-01-07 Analyzed By: RR

Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Manganese		1,2,3,4,5	mg/Kg	1.00	0.995	100	90 - 110	2015-01-07

Standard (CCV-1)

QC Batch: 118470 Date Analyzed: 2015-01-07 Analyzed By: RR

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Manganese		1,2,3,4,5	mg/Kg	1.00	0.989	99	90 - 110	2015-01-07

Standard (ICV-1)

QC Batch: 118479 Date Analyzed: 2015-01-08 Analyzed By: RR

Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Iron		1,2,3,4,5	mg/Kg	1.00	0.996	100	90 - 110	2015-01-08

Standard (CCV-1)

QC Batch: 118479 Date Analyzed: 2015-01-08 Analyzed By: RR

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Iron		1,2,3,4,5	mg/Kg	1.00	1.01	101	90 - 110	2015-01-08

Standard (ICV-1)

QC Batch: 118482 Date Analyzed: 2015-01-08 Analyzed By: RR

Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Manganese		1,2,3,4,5	mg/Kg	1.00	0.995	100	90 - 110	2015-01-08

Standard (CCV-1)

QC Batch: 118482 Date Analyzed: 2015-01-08 Analyzed By: RR

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Manganese		1,2,3,4,5	mg/Kg	1.00	1.03	103	90 - 110	2015-01-08

Standard (ICV-1)

QC Batch: 118484 Date Analyzed: 2015-01-08 Analyzed By: RR

Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Manganese		1,2,3,4,5	mg/Kg	1.00	0.995	100	90 - 110	2015-01-08

Standard (CCV-1)

QC Batch: 118484 Date Analyzed: 2015-01-08 Analyzed By: RR

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Manganese		1,2,3,4,5	mg/Kg	1.00	1.02	102	90 - 110	2015-01-08

Standard (ICV-1)

QC Batch: 118486 Date Analyzed: 2015-01-08 Analyzed By: RR

Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Manganese		1,2,3,4,5	mg/Kg	1.00	0.995	100	90 - 110	2015-01-08

Standard (CCV-1)

QC Batch: 118486 Date Analyzed: 2015-01-08 Analyzed By: RR

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Manganese		1,2,3,4,5	mg/Kg	1.00	1.02	102	90 - 110	2015-01-08

Standard (ICV-1)

QC Batch: 118489 Date Analyzed: 2015-01-07 Analyzed By: LM

Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Manganese		1,2,3,4,5	mg/Kg	1.00	1.04	104	90 - 110	2015-01-07

Standard (CCV-1)

QC Batch: 118489 Date Analyzed: 2015-01-07 Analyzed By: LM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Manganese		1,2,3,4,5	mg/Kg	1.00	1.04	104	90 - 110	2015-01-07

Standard (ICV-1)

QC Batch: 118490 Date Analyzed: 2015-01-07 Analyzed By: LM

Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Iron		1,2,3,4,5	mg/Kg	1.00	1.03	103	90 - 110	2015-01-07

Standard (CCV-1)

QC Batch: 118490 Date Analyzed: 2015-01-07 Analyzed By: LM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Iron		1,2,3,4,5	mg/Kg	1.00	1.05	105	90 - 110	2015-01-07

Standard (ICV-1)

QC Batch: 118527 Date Analyzed: 2015-01-08 Analyzed By: LM

Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Iron		1,2,3,4,5	mg/Kg	1.00	1.03	103	90 - 110	2015-01-08

Standard (CCV-1)

QC Batch: 118527 Date Analyzed: 2015-01-08 Analyzed By: LM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Iron		1,2,3,4,5	mg/Kg	1.00	1.03	103	90 - 110	2015-01-08

Standard (CCV-1)

QC Batch: 118531 Date Analyzed: 2015-01-06 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		3,4,5	mg/Kg	25.0	23.2	93	90 - 110	2015-01-06

Standard (CCV-1)

QC Batch: 118531 Date Analyzed: 2015-01-06 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		3,4,5	mg/Kg	25.0	23.7	95	90 - 110	2015-01-06

Standard (CCV-2)

QC Batch: 118531 Date Analyzed: 2015-01-06 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		3,4,5	mg/Kg	25.0	26.9	108	90 - 110	2015-01-06

Standard (CCV-2)

QC Batch: 118531 Date Analyzed: 2015-01-06 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		3,4,5	mg/Kg	25.0	27.2	109	90 - 110	2015-01-06

Standard (CCV-1)

QC Batch: 118533 Date Analyzed: 2015-01-06 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		3,4,5	mg/Kg	25.0	26.9	108	90 - 110	2015-01-06

Standard (CCV-1)

QC Batch: 118533 Date Analyzed: 2015-01-06 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		3,4,5	mg/Kg	25.0	27.2	109	90 - 110	2015-01-06

Standard (CCV-2)

QC Batch: 118533 Date Analyzed: 2015-01-06 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		3,4,5	mg/Kg	25.0	23.0	92	90 - 110	2015-01-06

Standard (CCV-2)

QC Batch: 118533 Date Analyzed: 2015-01-06 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		3,4,5	mg/Kg	25.0	23.8	95	90 - 110	2015-01-06

Standard (CCV-1)

QC Batch: 118536 Date Analyzed: 2015-01-08 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		3,4,5	mg/Kg	25.0	23.0	92	90 - 110	2015-01-08

Standard (CCV-1)

QC Batch: 118536 Date Analyzed: 2015-01-08 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		3,4,5	mg/Kg	25.0	23.8	95	90 - 110	2015-01-08

Standard (CCV-2)

QC Batch: 118536 Date Analyzed: 2015-01-08 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		3,4,5	mg/Kg	25.0	24.9	100	90 - 110	2015-01-08

Standard (CCV-2)

QC Batch: 118536 Date Analyzed: 2015-01-08 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		3,4,5	mg/Kg	25.0	25.6	102	90 - 110	2015-01-08

Standard (ICV-1)

QC Batch: 118551 Date Analyzed: 2015-01-09 Analyzed By: RR

Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Iron		1,2,3,4,5	mg/Kg	1.00	1.03	103	90 - 110	2015-01-09

Standard (CCV-1)

QC Batch: 118551 Date Analyzed: 2015-01-09 Analyzed By: RR

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Iron		1,2,3,4,5	mg/Kg	1.00	1.06	106	90 - 110	2015-01-09

Standard (CCV-1)

QC Batch: 118564 Date Analyzed: 2015-01-09 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		3,4,5	mg/Kg	25.0	25.4	102	90 - 110	2015-01-09

Standard (CCV-1)

QC Batch: 118564 Date Analyzed: 2015-01-09 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		3,4,5	mg/Kg	25.0	24.7	99	90 - 110	2015-01-09

Standard (CCV-2)

QC Batch: 118564 Date Analyzed: 2015-01-09 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		3,4,5	mg/Kg	25.0	24.9	100	90 - 110	2015-01-09

Standard (CCV-2)

QC Batch: 118564 Date Analyzed: 2015-01-09 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		3,4,5	mg/Kg	25.0	24.2	97	90 - 110	2015-01-09

Standard (CCV-1)

QC Batch: 118565 Date Analyzed: 2015-01-09 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		3,4,5	mg/Kg	25.0	24.9	100	90 - 110	2015-01-09

Standard (CCV-1)

QC Batch: 118565 Date Analyzed: 2015-01-09 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		3,4,5	mg/Kg	25.0	24.2	97	90 - 110	2015-01-09

Standard (CCV-2)

QC Batch: 118565 Date Analyzed: 2015-01-09 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		3,4,5	mg/Kg	25.0	25.5	102	90 - 110	2015-01-09

Standard (CCV-2)

QC Batch: 118565 Date Analyzed: 2015-01-09 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		3,4,5	mg/Kg	25.0	24.9	100	90 - 110	2015-01-09

Standard (ICV-1)

QC Batch: 118574 Date Analyzed: 2015-01-09 Analyzed By: LM

Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Iron		1,2,3,4,5	mg/Kg	1.00	1.03	103	90 - 110	2015-01-09

Standard (CCV-1)

QC Batch: 118574 Date Analyzed: 2015-01-09 Analyzed By: LM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Iron		1,2,3,4,5	mg/Kg	1.00	0.987	99	90 - 110	2015-01-09

Standard (CCV-1)

QC Batch: 118588 Date Analyzed: 2015-01-12 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		3,4,5	mg/Kg	25.0	24.7	99	90 - 110	2015-01-12

Standard (CCV-1)

QC Batch: 118588 Date Analyzed: 2015-01-12 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		3,4,5	mg/Kg	25.0	24.8	99	90 - 110	2015-01-12

Standard (CCV-2)

QC Batch: 118588 Date Analyzed: 2015-01-12 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		3,4,5	mg/Kg	25.0	24.9	100	90 - 110	2015-01-12

Standard (CCV-2)

QC Batch: 118588 Date Analyzed: 2015-01-12 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		3,4,5	mg/Kg	25.0	25.0	100	90 - 110	2015-01-12

Standard (CCV-1)

QC Batch: 118589 Date Analyzed: 2015-01-12 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		3,4,5	mg/Kg	25.0	24.9	100	90 - 110	2015-01-12

Standard (CCV-1)

QC Batch: 118589 Date Analyzed: 2015-01-12 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		3,4,5	mg/Kg	25.0	25.0	100	90 - 110	2015-01-12

Standard (CCV-2)

QC Batch: 118589 Date Analyzed: 2015-01-12 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		3,4,5	mg/Kg	25.0	24.5	98	90 - 110	2015-01-12

Standard (CCV-2)

QC Batch: 118589 Date Analyzed: 2015-01-12 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		3,4,5	mg/Kg	25.0	24.7	99	90 - 110	2015-01-12

Standard (CCV-1)

QC Batch: 118590 Date Analyzed: 2015-01-12 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		3,4,5	mg/Kg	25.0	24.5	98	90 - 110	2015-01-12

Standard (CCV-1)

QC Batch: 118590 Date Analyzed: 2015-01-12 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		3,4,5	mg/Kg	25.0	24.7	99	90 - 110	2015-01-12

Standard (CCV-2)

QC Batch: 118590 Date Analyzed: 2015-01-12 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		3,4,5	mg/Kg	25.0	24.9	100	90 - 110	2015-01-12

Standard (CCV-2)

QC Batch: 118590 Date Analyzed: 2015-01-12 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		3,4,5	mg/Kg	25.0	25.0	100	90 - 110	2015-01-12

Standard (CCV-1)

QC Batch: 118620 Date Analyzed: 2015-01-13 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		3,4,5	mg/Kg	25.0	26.8	107	90 - 110	2015-01-13

Standard (CCV-1)

QC Batch: 118620 Date Analyzed: 2015-01-13 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		3,4,5	mg/Kg	25.0	25.6	102	90 - 110	2015-01-13

Standard (CCV-2)

QC Batch: 118620 Date Analyzed: 2015-01-13 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		3,4,5	mg/Kg	25.0	25.3	101	90 - 110	2015-01-13

Standard (CCV-2)

QC Batch: 118620 Date Analyzed: 2015-01-13 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		3,4,5	mg/Kg	25.0	24.2	97	90 - 110	2015-01-13

Standard (CCV-1)

QC Batch: 118639 Date Analyzed: 2015-01-14 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		3,4,5	mg/Kg	25.0	23.7	95	90 - 110	2015-01-14

Standard (CCV-1)

QC Batch: 118639 Date Analyzed: 2015-01-14 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		3,4,5	mg/Kg	25.0	23.1	92	90 - 110	2015-01-14

Standard (CCV-2)

QC Batch: 118639 Date Analyzed: 2015-01-14 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		3,4,5	mg/Kg	25.0	25.6	102	90 - 110	2015-01-14

Standard (CCV-2)

QC Batch: 118639 Date Analyzed: 2015-01-14 Analyzed By: RL

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		3,4,5	mg/Kg	25.0	24.3	97	90 - 110	2015-01-14

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	PJLA	L14-93	Lubbock
2	Kansas	Kansas E-10317	Lubbock
3	LELAP	LELAP-02003	Lubbock
4	NELAP	T104704219-14-10	Lubbock
5		2014-018	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.

F	Description
U	The analyte is not detected above the SDL

Result Comments

1 special comment Matrix diluted out.
2 special commentMatrix spike diluted out.

Attachments

The scanned attachments will follow this page.
Please note, each attachment may consist of more than one page.

14121803

CHAIN OF CUSTODY RECORD

APEX

Office Location: Midland Texas

Project Manager: Liz Scaggs

Laboratory: Trace Analysis

Address: Midland TX

Contact:

Phone:

PO/SO #:

Lab use only
Due Date: 28/28
Temp. of coolers when received (C°): 4.8
1 | 2 | 3 | 4 | 5
Page 1 of 11

Sampler's Name: Adrian Jackson

Sampler's Signature:

Proj. No.: 702011465292

Project Name: Permian Enterprise Expansion

No/Type of Containers: 1 10/ soil Jar

ANALYSIS REQUESTED: Chloride; sulfate; iron and manganese

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 Lt.	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)
S	12/15	1108	/		ML-CL-1	0	6in				X		382694
		1118	/		ML-CL-1	6	12in						695
		1050	/		ML-N-1	0	6in						696
		1115	/		ML-S-1	0	6in						697
		1103		/	ML-BG-1		1in						698
		1121	/		ML-CL-2	0	6in						699
		1126	/		ML-CL-2	6	12in						BW 6700
		1137	/		ML-N-2	0	6in						701
		1135	/		ML-S-2	0	6in						702
		1133		/	ML-BG-2		1in						703

Turn around time: ❑ Normal ❑ 25% Rush ❑ 50% Rush ❑ 100% Rush

Relinquished by (Signature)	Date	Time	Received by: (Signature)	Date	Time
	12/16/14	13:04	AM TA	12/16/14	13:04
AM TA 12-17-14	Date:	13:06	Received by: (Signature)	Date:	Time:
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by (Signature)	Date:	Time:	Received by: (Signature) Brenda Ward	Date: 12/18/14	Time: 8:05

NOTES:
5 day TAT - final Report no later than 12/30
Carry in Dueby 9th January.

Matrix: WW - Wastewater; W - Water; S - Soil; SD - Solid; L - Liquid; A - Air Bag; C - Charcoal tube; SL - sludge; O - Oil
Container: VOA - 40 ml vial; A/G - Amber / Or Glass 1 Liter; 250 ml - Glass wide mouth; P/O - Plastic or other

14121803

CHAIN OF CUSTODY RECORD

APEX

Office Location: Midland, TX

Project Manager: Liz Scaggs

Laboratory: Trace Analysis

Address: Midland TX

Contact:

Phone:

PO/SO #:

Sampler's Name: Adrian Jackson

Sampler's Signature:

Lab use only
Due Date: 2.8
Temp. of coolers when received (C°): 4.8
1 | 2 | 3 | 4 | 5
Page 2 of 11

Proj. No.: 70201146292

Project Name: Enterprise - Permian Expansion

No/Type of Containers: 1 10/ Soil Jar

ANALYSIS REQUESTED: Chloride / Sulfate / Iron and Manganese

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 Lt.	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)
S	12/15	1145	/		ML-CL-3	0	6in				X		382704
		1150	/		ML-CL-3	6	12in						705
		1159	/		ML-N-3	0	6in						706
		1154	/		ML-S-3	0	6in						707
		1157		/	ML-BG-3		1in						708
		1207	/		ML-CL-4	0	6in						709
		1210	/		ML-CL-4	6	12in						710
		1219	/		ML-N-4	0	6in						711
		1216	/		ML-S-4	0	6in						712
		1211		/	ML-BG-4		1in						713

Turn around time: ❑ Normal ❑ 25% Rush ❑ 50% Rush ❑ 100% Rush

Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	12/16/14	13:05	AM TA	12/16/14	13:04
AM TA	12-17-14	8:00			
			Brenda Ward	12/15/14	8:05

NOTES: carry in

Matrix: WW - Wastewater; W - Water; S - Soil; SD - Solid; L - Liquid; A - Air Bag; C - Charcoal tube; SL - sludge; O - Oil
Container: VOA - 40 ml vial; A/G - Amber / Or Glass 1 Liter; 250 ml - Glass wide mouth; P/O - Plastic or other

14121803

CHAIN OF CUSTODY RECORD

APEX

Office Location Midland, TX

Project Manager Liz Scaggs

Laboratory: Trace Analysis

Address: Midland TX

Contact:

Phone:

PO/SO #:

Lab use only
Due Date: 2-8
Temp. of coolers when received (C°): 4.8
1 | 2 | 3 | 4 | 5
Page 3 of 11

Sampler's Name: Adrian Jackson

Sampler's Signature:

Proj. No. 702011469292

Project Name: Permian Enterprise Expansion

No/Type of Containers: 1 10/ Soil Jar

ANALYSIS REQUESTED: Chloride / Sulfate / Iron and Manganese

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 Lt.	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)
S	12/15	1230	/		ML-CL-5	0	6				X		382714
		1232	/		ML-CL-5	6	12						715
		1240	/		ML-N-5	0	6						716
		1237	/		ML-S-5	0	6						717
		1231		/	ML-BG-5		1						718
		1254	/		ML-CL-6	0	6						719
		1257	/		ML-CL-6	6	12						720
		102	/		ML-N-6	0	6						721
		105	/		M-S-6	0	6						722
		1251		/	ML-BG-6		1						723

Turn around time ❑ Normal ❑ 25% Rush ❑ 50% Rush ❑ 100% Rush

Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	12/16/14	13:05	AM TA	12-16-14	13:04
Relinquished by (Signature) AM TA	12-17-14	8:00	Received by: (Signature)	Date:	Time:
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by (Signature)	Date:	Time:	Received by: (Signature) Brenda Ward	12/18/14	8:05

NOTES: Carry in

Matrix: WW - Wastewater; W - Water; S - Soil; SD - Solid; L - Liquid; A - Air Bag; C - Charcoal tube; SL - sludge; O - Oil
Container: VOA - 40 ml vial; A/G - Amber or Glass 1 Liter; 250 ml - Glass wide mouth; P/O - Plastic or other

14121803

CHAIN OF CUSTODY RECORD

APEX

Office Location: Midland, TX

Project Manager: Liz Scaggs

Laboratory: Trace Analysis

Address: Midland, TX

Contact:

Phone:

PO/SO #:

Lab use only
Due Date: 2-8

Temp. of coolers when received (C°): 4.8

1	2	3	4	5

Page 4 of 11

Sampler's Name: Adrian Jackson

Sampler's Signature:

Proj. No.: 702011461292

Project Name: Enterprise Permian Expansion

No/Type of Containers: 110/ Soil Jar

ANALYSIS REQUESTED: Chloride / Sulfate / Iron and Manganese

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 Lt.	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)
S	12/15	118	/		ML-CL-7	0	6				X		382724
		122	/		ML-CL-7	6	12						725
		129	/		ML-N-7	0	6						726
		125	/		ML-S-7	0	6						727
		120		/	ML-BG-7		1						728
		135	/		ML-CL-8	0	6						729
		140	/		ML-CL-8	6	12						730
		149	/		ML-N-8	0	6						731
		145	/		ML-S-8	0	6						732
		144		/	ML-BG-8		1						733

Turn around time ❑ Normal ❑ 25% Rush ❑ 50% Rush ❑ 100% Rush

Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	12/16/14	13:06	AM TA	12-16-14	13:04
AM TA	12-17-14	8:06			

NOTES: Carryin

Matrix: WW - Wastewater; W - Water; S - Soil; SD - Solid; L - Liquid; A - Air Bag; C - Charcoal tube; SL - sludge; O - Oil

Container: VOA - 40 ml vial; A/G - Amber / Or Glass 1 Liter; 250 ml - Glass wide mouth; P/O - Plastic or other

14121803

CHAIN OF CUSTODY RECORD

APEX

Office Location: Midland TX

Project Manager: Liz Scaggs

Laboratory: Trace Analysis

Address: Midland TX

Contact:

Phone:

PO/SO #:

Sampler's Name: Adrian Jackson

Sampler's Signature:

Proj. No.: 702014G292

Project Name: Enterprise Permian Expansion

No/Type of Containers: 110/ Soil Jar

ANALYSIS REQUESTED: Chloride / Sulfate / Iron and Manganese

Lab use only
Due Date: 2.8
Temp. of coolers when received (C°): 4.8
1 | 2 | 3 | 4 | 5

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 Lt.	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)
S	12/15	158	/		ML-CL-9	0	6in				X		382734
		203	/		ML-CL-9	6	12						735
		209	/		ML-N-9	0	6						736
		206	/		ML-S-9	0	6						737
		202		/	ML-BG-9		1in						738
		224	/		ML-CL-10	0	6in						739
		230	/		ML-CL-10	6	12						740
		232	/		ML-N-10	0	6						741
		234	/		ML-S-10	0	6						742
		223		/	ML-BG-10	0	1in						743

Turn around time: ❑ Normal ❑ 25% Rush ❑ 50% Rush ❑ 100% Rush

Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	12/16/14	13:06	AM TA	12/16/14	8:04
Relinquished by (Signature) AM TA	12/17/14	8:06	Received by: (Signature)	Date:	Time:
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by (Signature)	Date:	Time:	Received by: (Signature) Brenda Ward	12/18/14	08:05

NOTES: carry in

Matrix: WW - Wastewater; W - Water; S - Soil; SD - Solid; L - Liquid; A - Air Bag; C - Charcoal tube; SL - sludge; O - Oil
Container: VOA - 40 ml vial; A/G - Amber / Or Glass 1 Liter; 250 ml - Glass wide mouth; P/O - Plastic or other

14121803

CHAIN OF CUSTODY RECORD

APEX

Office Location Midland, TX

Project Manager Liz Skaggs

Laboratory: Trace Analysis

Address: Midland TX

Contact:

Phone:

PO/SO #:

Lab use only
Due Date: 28

Temp. of coolers when received (C°): 4.8

1	2	3	4	5

Page 6 of 11

Sampler's Name: Adrian Jackson

Sampler's Signature:

Proj. No.: 702011462 92

Project Name: Enterprise Permian Expansion

No/Type of Containers: 1 10/soil Jar

ANALYSIS REQUESTED: Chloride / Sulfate / Iron and Manganese

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 Lt.	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)
S	12/15	245	/		ML-CL-11	0	6				X		382744
		247	/		ML-CL-11	6	12						745
		242	/		ML-N-11	0	6						746
		249	/		ML-S-11	0	6						747
		246		/	ML-BG-11		1						748
		258	/		ML-CL-12	0	6						749
		303	/		ML-CL-12	6	12						750
		302	/		ML-N-12	0	6						751
		305	/		ML-S-12	0	6						752
		300		/	ML-BG-12		1						753

Turn around time ❑ Normal ❑ 25% Rush ❑ 50% Rush ❑ 100% Rush

Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	12/16/14	13:06	AM TA	12-16-14	13:04
AM TA	12-17-14	8:06			
			Brenda Ward	12/18/14	8:05

NOTES: Carry in

Matrix: WW - Wastewater; W - Water; S - Soil; SD - Solid; L - Liquid; A - Air Bag; C - Charcoal tube; SL - sludge; O - Oil

Container: VOA - 40 ml vial; A/G - Amber / Or Glass 1 Liter; 250 ml - Glass wide mouth; P/O - Plastic or other

1412 1803

CHAIN OF CUSTODY RECORD

APEX

Office Location Midland, TX

Project Manager Liz Scaggs

Laboratory: Trace Analysis

Address: Midland TX

Contact:

Phone:

PO/SO #:

Sampler's Name: Adrian Jackson

Sampler's Signature:

Proj. No.: 702011 46 292

Project Name: Enterprise - Permian Expansion

No/Type of Containers: 110/ soil Far

ANALYSIS REQUESTED: Chloride; Sulfate; Iron and Manganese

Lab use only
Due Date: 28
Temp. of coolers when received (C°): 4.8
1 | 2 | 3 | 4 | 5

Page 7 of 11

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 Lt.	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)
S	12/15	315	/		ML-CL-13	0	6				X		382754
		318	/		ML-CL-13	6	12						755
		321	/		ML-N-13	0	6						756
		319	/		ML-S-13	0	6						757
		317		/	ML-BG-13		1						758
		328	/		ML-CL-14	0	6						759
		329	/		ML-CL-14	6	12						760
		333	/		ML-N-14	0	6						761
		331	/		ML-S-14	0	6						762
		332		/	ML-BG-14		1						763

Turn around time ❑ Normal ❑ 25% Rush ❑ 50% Rush ❑ 100% Rush

Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	12/16/14	13:07	AM TA	12/16/14	13:04
AM TA	12-17-14	8:06			
			Brenda Ward	12/18/14	8:05

NOTES: 5 day TAT - final report no later than 12/30!!

carry in

Matrix: W - Water; S - Soil; SD - Solid; L - Liquid; A - Air Bag; C - Charcoal tube; SL - sludge; O - Oil
Container: WW - Wastewater; VOA - 40 ml vial; A/G - Amber / Or Glass 1 Liter; 250 ml - Glass wide mouth; P/O - Plastic or other

14121803

CHAIN OF CUSTODY RECORD

APEX

Office Location: Midland Texas

Project Manager: Liz Scaggs

Laboratory: Trace Analysis

Address: Midland TX

Contact:

Phone:

PO/SO #:

Lab use only
Due Date: 28
Temp. of coolers when received (C°): 4.8

1	2	3	4	5

Page 8 of 11

Sampler's Name: Adrian Jackson

Sampler's Signature: [signature]

Proj. No.: 702011462 92

Project Name: Enterprise Permian Expansion

No/Type of Containers: 1 10/Soil Jar

ANALYSIS REQUESTED: Chloride, Sulfate, Iron and Manganese

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 Lt.	250 ml	Glass Jar	P/O	Chloride	Sulfate	Iron and Manganese	Lab Sample ID (Lab Use Only)
S	12/15	339	/		ML-CL-15	0	6in				X		/	/	/	382764
		343	/		ML-CL-15	6	12									765
		337	/		ML-N-15	0	6									766
		345	/		ML-S-15	0	6									767
		344		/	ML-BG-15		1in									768
		354	/		ML-CL-16	0	6in									769
		357	/		ML-CL-16	6	12									770
		401	/		ML-N-16	0	6									771
		359	/		ML-S-16	0	6									772
		355		/	ML-BG-16		1in									773

Turn around time ❑ Normal ❑ 25% Rush ❑ 50% Rush ❑ 100% Rush

Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
[signature]	12/16/14	1307	AM TA	12-16-14	8:04
AM TA	12-17-14	8:06			
			Brenda Ward	12/18/14	8:05

NOTES: Carry in

Matrix: WW - Wastewater, W - Water, S - Soil, SD - Solid, L - Liquid, A - Air Bag, C - Charcoal tube, SL - sludge, O - Oil

Container: VOA - 40 ml vial, A/G - Amber / Or Glass 1 Liter, 250 ml - Glass wide mouth, P/O - Plastic or other

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14121803

CHAIN OF CUSTODY RECORD

APEX

Office Location: Mid land TX

Project Manager: Liz Scaggs

Laboratory: Trace Analysis

Address: Midland TX

Contact:

Phone:

PO/SO #:

Lab use only
Due Date: 2.8/2.8

Temp. of coolers when received (C°): 4.8

1	2	3	4	5

Page 9 of 11

Sampler's Name: Adrian Jackson

Sampler's Signature:

Proj. No.: 7020114 6292

Project Name: Enterprise Permian Expansion

No/Type of Containers: (10) soil Jar

ANALYSIS REQUESTED: Chloride; Sulfate; Iron and Manganese

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 Lt.	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)
S	12/15	407	/		ML-CL-17	0	6in				X		382774
		411	/		ML-CL-17	6	12in						775
		414	/		ML-N-17	0	6in						776
		413	/		ML-S-17	0	6in						777
		409		/	ML-BG-17		1in						778
		422	/		ML-CL-18	0	6in						779
		423	/		ML-CL-18	6	12in						780
		426	/		ML-N-18	0	6in						781
		425	/		ML-S-18	0	6in						782
		427		/	ML-BG-18		1in						783

Turn around time: ❑ Normal ❑ 25% Rush ❑ 50% Rush ❑ 100% Rush

Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	12/16/14	1307	AM TA	12-16-14	8:04
AM TA	12-17-14	13:00			
			Brenda Ward	12/18/14	8:05

NOTES: carry in

Matrix: WW - Wastewater; W - Water; S - Soil; SD - Solid; L - Liquid; A - Air Bag; C - Charcoal tube; SL - sludge; O - Oil

Container: VOA - 40 ml vial; A/G - Amber / Or Glass 1 Liter; 250 ml - Glass wide mouth; P/O - Plastic or other

141121803

CHAIN OF CUSTODY RECORD

APEX

Office Location: Midland TX

Project Manager: Liz Scaggs

Laboratory: Trace Analysis

Address: Midland TX

Contact:

Phone:

PO/SO #:

Lab use only
Due Date: 2.8/2.8
Temp. of coolers when received (C°): 4.8
1 | 2 | 3 | 4 | 5
Page 10 of 11

Sampler's Name: Adrian Jackson

Sampler's Signature: [signature]

Proj. No.: 7628114G292

Project Name: Enterprise Permian Expansion

No/Type of Containers: 1/10/ 8oz Jar

ANALYSIS REQUESTED: Chloride, sulfate, Iron and manganese

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 Lt.	250 ml	Glass Jar	P/O	Chloride	sulfate	Iron and manganese	Lab Sample ID (Lab Use Only)
S	12/15	446	/		ML-CL-20	0	6in				X		X	X	X	382784
S	12/15	448	/		ML-CL-20	6	12				X		X	X	X	785
S	12/15	450	/		ML-N-20	0	6				X		X	X	X	786
S	12/15	449	/		ML-S-20	0	6				X		X	X	X	787
S	12/15	451		/	ML-BG-20		1in				X		X	X	X	788
S	12/15	436	/		ML-CL-19	0	6				X		X	X	X	789
S	12/15	437	/		ML-CL-19	6	12				X		X	X	X	790
S	12/15	434	/		ML-N-19	0	6				X		X	X	X	791
S	12/15	438	/		ML-S-19	0	6				X		X	X	X	792
S	12/15	439		/	ML-BG-19		1in				X		X	X	X	793

Turn around time: ❑ Normal ❑ 25% Rush ❑ 50% Rush ❑ 100% Rush

Relinquished by (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	12/16/14	1308	AM TA	12-16-14	13:04
AM TA	12-17-14	13:06			
			Brenda Ward	12/18/14	8:05

NOTES: carry in

Matrix: WW - Wastewater, W - Water, S - Soil, SD - Solid, L - Liquid, A - Air Bag, C - Charcoal tube, SL - sludge, O - Oil
Container: VOA - 40 ml vial, A/G - Amber / Or Glass 1 Liter, 250 ml - Glass wide mouth, P/O - Plastic or other

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14121803

CHAIN OF CUSTODY RECORD

APEX

Office Location Midland TX

Project Manager Liz Scaggs

Laboratory: Trace Analysis

Address: Midland TX

Contact:

Phone:

PO/SO #:

ANALYSIS REQUESTED

Lab use only
Due Date: 2.8/2.8

Temp. of coolers when received (C°): 4.8

1	2	3	4	5

Page 1 of 11

Sampler's Name: Adrian Jackson

Sampler's Signature:

Proj. No. 7020114G292

Project Name: Enterprise Permian Expansion

No/Type of Containers

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 Lt.	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)
S	12/15	458	/		ML-CL-21								382794
		459	/		ML-CL-21								795
		501	/		ML-N-21								796
		500	/		ML-S-21								797
		502		/	ML-BG-21								798
		501	/		ML-CL-22								~~800~~ 799
		510	/		ML-CL-22								~~801~~ 800
		511	/		ML-N-22								~~802~~ 801
		513	/		ML-S-22								~~803~~ 802
		512	/	X	ML-BG-22								~~804~~ 803

Turn around time ❑ Normal ❑ 25% Rush ❑ 50% Rush ❑ 100% Rush

Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	12/16/14	1300	AM TA	12/16/14	13:04
Relinquished by (Signature) AM TA	Date: 12/17/14	Time: 8:06	Received by: (Signature)	Date:	Time:
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by (Signature)	Date:	Time:	Received by: (Signature) Brenda Ward	Date: 12/18/14	Time: 8:05

NOTES: Carry in

Matrix: WW - Wastewater; W - Water; S - Soil; SD - Solid; L - Liquid; A - Air Bag; C - Charcoal tube; SL - sludge; O - Oil
Container: VOA - 40 ml vial; A/G - Amber / Or Glass 1 Liter; 250 ml - Glass wide mouth; P/O - Plastic or other

APPENDIX D

Photographic Documentation

View looking along Monsanto Road December 15, 2014, showing release of water.

View along Monsanto Road after release of water.

Collection of soil samples along Monsanto Road utilizing a hang auger.

APPENDIX E

Declaration of Adrian Jackson

Declaration of Adrian Jackson

I, Adrian Jackson, declare under penalty of perjury:

1. My name is Adrian Jackson. I am over the age of 18 and this declaration is based on my personal knowledge.
2. I am employed as an environmental geologist with Apex, an environmental consulting firm. I am employed in Apex's Midland, Texas office.
3. Enterprise Products Operating, LLC retained Apex to conduct some soil sampling along a dirt/gravel section of Monsanto Road in Lea County, New Mexico pursuant to a Soil Sampling Plan submitted to and approved by the New Mexico Oil Conservation Division (the "Approved Plan").
4. On December 15, 2014, John Norman of Apex and I met at Monsanto Road to collect the soil samples pursuant to the Approved Plan. We were both at the site by approximately 10:18 am. We were on site collecting samples from Monsanto Road in accordance with the Approved Plan until 5:35 pm.
5. During the roughly 7.25 hours we were on site, we saw approximately 30 water trucks travel down Monsanto Road. However, beginning at 4:33 pm 2 trucks discharged water along the section of Monsanto Road that we were sampling. The first truck went past us at 4:33 pm. The second truck went by at 4:45 pm. The last 4 areas from which we collected samples were impacted by the water sprayed from these two trucks.
6. Attached to this declaration are copies of color photographs that I took on December 15, 2014 at roughly 4:45 pm showing one of the trucks that discharged water along the section of Monsanto Road where we were sampling.
7. The water that the two trucks discharged while we were present had a noticeable odor.

8. Based upon my training and experience, and my observations, I believe that Monsanto Road is and has been frequently watered over an extended period of time. The top 5 to 6 inches of the soil within Monsanto Road is hard and densely compacted, characteristic of soils that have repeatedly wetted and compacted (in this case by heavy vehicles travelling over the road when it is wet). Many areas of the road surface also have a smooth shiny appearance, which is also characteristic of soils that have repeatedly wetted and compacted.

Pursuant to 28 U.S.C. § 1746, I declare under penalty of perjury that the foregoing is true and correct to the best of my knowledge.

Executed this 17 day of December, 2014, in Midland, Texas.

Adrian Jackson

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 206726

CONDITIONS

Operator: ENTERPRISE PRODUCTS OPERATING, LLC P.O. BOX 4324 HOUSTON, TX 77210	OGRID: 374092
	Action Number: 206726
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	4/13/2023