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FMC Idaho LLC

May 28, 2004

Ms. Sylvia Burges
Environmental Protection Agency, Region 10
1200 Sixth Avenue
Seattle, Washington 98101

Re: FTIR Quarterly Air Monitoring Report – 1st Quarter 2004
FMC Pocatello Plant
RCRA Identification Number #IDD070929518

Dear Ms. Burges:

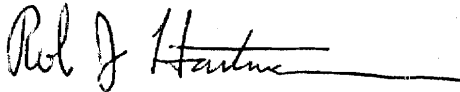
The Open Path FTIR Pond Air Monitoring System Report for the 1st Quarter 2004, specifically the time period, January 1 thru 23, 2004, is enclosed. Per the Pond Management Plan (PMP), a copy of this Quarterly FTIR Report is also being sent to the Shoshone-Bannock Tribes.

There were no exceedances of the applicable standards for phosphine (PH₃) or hydrogen cyanide (HCN) during the time period, January 1 thru 23, 2004. The average PH₃ concentration level remained below detection limits and was comparable to the 4th Quarter 2003, which was also below detection limits. HCN concentrations remained at or below instrument detection limits.

In November 2003, FMC proposed to shut down the FTIR monitoring system because phosphine and hydrogen cyanide concentrations were typically below instrument detection limits. EPA approved terminating the PMP requirement for FTIR monitoring effective January 21, 2004. The last day of FTIR data collection was January 23, 2004. Subsequent to shutting down the FTIR system on January 24, the FTIR equipment was removed from the pond area.

If you have any questions please call me at (208) 236-8216.

Sincerely,



Rob J. Hartman
Remediation Project Director

Enclosure

Cc: Shoshone-Bannock Tribes -- Roger Turner/Scott Youree

QUARTERLY REPORT

1st Quarter 2004

FMC OP-FTIR Air Monitoring System

FMC Idaho LLC

Pocatello, Idaho

EPA RCRA ID #IDD 070929518

FMC OP-FTIR Air Monitoring System Quarterly Report

1st Quarter 2004

EXECUTIVE SUMMARY

FTIR monitoring ceased operations as of midnight January 23rd, 2004 around Pond 18 Cell B. Monitoring consisted of perimeter coverage of Pond 18-Cell B by employing two Open-Path Fourier Transform Infrared (OP-FTIR) systems. Each OP-FTIR system scans two adjacent sides of the pond on a cyclic basis. Overall, PH₃ levels slightly increased in concentration levels, but decreased in duration throughout the 23-day period of the 1st Quarter 2004 as compared to the 4th Quarter 2003. HCN concentrations continued to remain at or below instrument detection limits throughout the 23-day period. There were no exceedances of the applicable standards for PH₃ or HCN during the 23-day period. Monitor on stream time during this period was 98.12%. (76.97% if weather related impact is considered).

Previous quarterly reports have included three appendices, which are no longer necessary because phosphine and hydrogen cyanide concentrations remain well below applicable action levels. These appendices are not included with this report for the reasons described below:

- Appendix D, which contained all fence line monitoring initiated in response to FTIR alarms. There were no FTIR alarms during the 23-day period of the 1st quarter 2004 so this appendix is not included with this report.
- Appendix E, which contained all offsite monitoring data. No offsite monitoring was triggered during the 23-day period of the 1st quarter 2004 so this appendix is not included with this report.
- Appendix F, which reported FTIR alarms for which there were no responses. Again, there were no FTIR alarms during the 23-day period of the 1st Quarter 2004 so this appendix is not included with this report.

FMC OP-FTIR Air Monitoring System Quarterly Report

1st Quarter 2004

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FMC OP-FTIR Air Monitoring System Quarterly Report

1st Quarter 2004

Section 1 - Introduction

This report provides the results from the FMC Pond OP-FTIR Air Monitoring System for the 23-day period of the 1st Quarter 2004. Section 2 provides a summary of maintenance and operation activities. Section 3 provides data presentation and analysis of the data. Section 4 presents quality assurance and control information. Appendix A is the hourly averaged data for the 23-day period of the 1st Quarter 2004 and is provided on CD ROM discs.

FTIR monitoring at FMC Idaho LLC consisted of perimeter coverage of Pond 18 Cell B by employing two Open-Path Fourier Transform Infrared (OP-FTIR) systems. Each OP-FTIR system scanned two adjacent sides of the pond on a cyclic basis. Complete cycle time was ten minutes. The Unisearch FTIR systems employed for this project were bistatic systems with one interferometer and infrared (IR) source serving two beam paths through use of a sliding mirror optical system that alternately directs the modulated IR beam to each of two receiver telescopes. Each receiver scope contains transfer optics and a mercury-cadmium-telluride (MCT) detector and was connected to the control computer and interferometer via fiber optic linkage. Each MCT detector, which operates at about 78 degrees Kelvin, was manually filled with liquid nitrogen as needed. Figure 1 depicts the system set-up and identifier assigned to each system beam path. Beam path elevations were set at 6 to 8 feet above grade. This was based on the need to intercept the major portion of the pond plumes and the need to be as close as practical to breathing zones while allowing normal facility operations to proceed without extended beam path blockages occurring.

OP-FTIR studies conducted previously defined the initial target compound and interferant compound list for the pond OP-FTIR air monitoring system. Target compounds are phosphine (PH₃), hydrogen cyanide (HCN), methane (CH₄), ammonia (NH₃), and hydrogen fluoride (HF). Interferant compounds are carbon monoxide (CO), carbon dioxide (CO₂), and water vapor (H₂O). Nitrous oxide (N₂O) was measured for quality assurance purposes. FMC had also installed a 10-meter meteorological tower (shown in Figure 1) instrumented to monitor wind speed, wind direction, temperature, pressure, delta temperature, relative humidity, precipitation, and solar insolation in the pond area vicinity. Meteorological Solutions, Inc. supplied the meteorological system, which consists of Met One sensors for barometric pressure, relative humidity, precipitation, and solar radiation; R.M. Young sensors for temperature and delta temperature; and Climatronics sensors for wind speed and wind direction. A Campbell Scientific CR23X data logger was included to record and prepare the data for transmission to the monitoring system network computer. The wind speed and direction sensors are equipped with external heaters to prevent wintertime freeze-ups. The temperature, pressure, wind speed, and wind direction signals for all OP-FTIR systems were directly integrated into each system's spectral database via the fiber optic interface at the base station computer. The two OP-FTIR units were linked via fiber optic cable to a base station computer located in the administration building. The base PC supported a local area network (Ethernet) that polled all remote OP-FTIR

FTIR DAILY CHECKLIST

Weather: _____ Date: _____ Time: _____ Technician: _____

OP-FTIR Location	18-1-1 (I) North Beam 1	18-1-2 (J) East Beam 2	18-2-1 (K) South Beam 1	18-2-2 (L) West Beam 2
Last Status Time				
Last SCAN Time				
Minimum Voltage				
Maximum Voltage				
Bad Scans				
N ₂ O value				
CH ₄ value				
FTIR Fail Alarms				
Data Relay OPEN				
PPA State		Comments: _____		

FTIR DAILY CHECKLIST

Weather: _____ Date: _____ Time: _____ Technician: _____

OP-FTIR Location	18-1-1 (I) North Beam 1	18-1-2 (J) East Beam 2	18-2-1 (K) South Beam 1	18-2-2 (L) West Beam 2
Last Status Time				
Last SCAN Time				
Minimum Voltage				
Maximum Voltage				
Bad Scans				
N ₂ O value				
CH ₄ value				
FTIR Fail Alarms				
Data Relay OPEN				
PPA State		Comments: _____		

units and meteorological station, extracted information, sorted and displayed information, and provided for data report compilation. The base PC was accessible via modem to provide remote data reporting access and to allow remote interrogation of individual OP-FTIR units for maintenance. A hardwire link was also in place to transmit OP-FTIR and meteorological data to a software program for response to readings at or above action levels for phosphine and hydrogen cyanide.

The goals and objectives for the program are:

1. 95% annual data recovery exclusive of time required for normal maintenance, quality assurance, system start-up, and data loss due to adverse weather conditions preventing signal reception.
2. Detection of all emissions of the target compounds for this program from the active pond areas being monitored and assessment of emission changes with time and with changes in pond chemistry.
3. Maintenance and operation of the instrumentation employed in the program at levels to produce data of known quality with data accuracy goals of 70% or better, and data precision goals of 95% or better.

Section 2 - Maintenance Summary

2.1 Normal Operations and Maintenance

OP-FTIR site checks were performed on a daily basis both remotely and directly. Site checks were done remotely by accessing each individual OP-FTIR via a software program called pcANYWHERE32. Viewing the software screens, which were available upon remote connection, allowed for the instrument status to be checked. The real time data displayed on each screen are reviewed for reasonableness of values, outliers, and data trends, which are indicative of potential malfunctions. A daily check form was filled out each day and is shown in Attachment A. The information recorded on each daily check form aided in assessing any malfunctions of the OP-FTIR systems. When malfunctions of the OP-FTIR were detected, an assessment of the problem was done by directly going to the location of concern.

Direct site checks were done as follows: Daily site inspections consist of checking the performance of the manual-fill system, checking the performance of the FTIR and other related systems in each FTIR shed and making a visual inspection of the pond area to note and remedy any potential problems that could result in down time.

Concentration data were collected each week using pcANYWHERE32 and archived. Each week spectral data were selected from the concentration data. These data were reviewed and validated. Complete spectral data was archived.

2.1.1 Quarterly Maintenance

The quarterly instrument maintenance was not conducted during the short 23-day period.

2.2 Additional Operations and Maintenance Items

Additional operations and maintenance items addressed this quarter can be broken into seven major categories, which are analysis methods and files, instrumentation, hardware, meteorological and weather related impact, downtime summary, software, and on stream time.

2.2.1 Analysis Methods and Files

All spectra for this period were downloaded to JAZ discs and 2 copies were made to CD-ROM discs and archived.

No new methods or backgrounds needed to be installed during the period.

2.2.2 Instrumentation

Superficial cleaning of 45-degree mirror surfaces was carried out once during the period to keep path voltages optimized.

A Sensa Phone test was conducted to ensure the system was functioning properly for purposes of alarm responses. No problems were encountered with the Sensa Phone link during the period.

2.2.3 Hardware

A detector was replaced on beam path 18-11 (north) due to a vacuum failure.

2.2.4 Meteorological System/Weather Related Impact

The meteorological tower functioned without error during the period providing weather parameters necessary for OP-FTIR data analysis.

Snowstorms caused some downtime for the FTIRs due to blowing and drifting snow. Once the storms subsided, snow was cleared and normal maintenance was resumed at the Pond site.

2.2.5 Downtime – Data Loss Summary

The majority of downtime for the period was due to weather related impact, followed by hardware problems and finally normal hardware and software maintenance.

2.2.6 PcANYWHERE32 Software

PcANYWHERE32, which allows for remote access to the OP-FTIR systems, continued to function efficiently during the period.

2.2.7 ConcReporter Software

ConcReporter continued to be an efficient tool for QA screening of the database for reporting.

2.2.8 On Stream Time

FMC has established a goal of 95% on stream time for yearly data collection. Table 2-1 depicts year-to-date on stream time reflecting system operability.

Table 2-1: On Stream Time – Percent (%)

Pond 18 January 1 thru 23, 2004	Pond 18 January 1 thru 23, 2004
(Without weather impact) 98.12	(With weather impact) 76.97

Section 3 - Data Presentation and Analysis

3.1 Summary of Quarterly Data and Data Presentation

This subsection provides a summary discussion of the data collected during the first 23 days in January 2004. Appendix A is the full set of data compiled on an hourly basis and is provided on CD ROM discs. Appendix B has been omitted from the quarterly reports per the request of the EPA and tribes. Appendix C provides fence line monitoring phosphine data for stations #1 through #6. Figure 3.1 provides the wind rose presenting wind speed and wind direction data for the period. The discussion relates to the data collected on a 5-minute basis.

3.1.1 January 1 thru 23, 2004

The phosphine maximum for this period was 0.38PPM and occurred on path 18-1J (east) on 1/23/04 at 19:48. The maximum value increased compared to December from 0.29PPM to 0.38PPM. The average concentration of PH₃ was 0.01PPM. The maximum and average values are based on the 5-minute averaged readings. Data trends were evaluated in the data set. These trends showed PH₃ concentrations were typically detected during periods of calm wind conditions from ~0 to 5 MPH. Wind conditions greater than ~5 MPH showed values of PH₃ below instrument detection limits.

Field analysis results of hydrogen cyanide (HCN) obtained from the FTIR systems were near or below instrument detection limits for the entire period. Visual inspection of the selected spectra for HCN confirmed that HCN was too low for quantification validations to be carried out.

Methane concentrations are normally found to occur in the atmosphere near ambient levels from approximately 1.80 to 2.20PPM. Reported field analysis results obtained from the FTIR systems for CH₄ remained at or near ambient levels during this period with only a few spiking events

occurring just above ambient levels to approximately 2.50PPM. Possible sources of the spiking were trains or vehicle traffic in the pond area. Visual inspection of selected spectra confirmed CH₄ presence.

The NH₃ maximum for this period was 0.40PPM and occurred on path 18-2K (south) on 1/15/04 at 11:43. The maximum value increased compared to December from 0.11PPM to 0.40PPM. The average concentration of NH₃ for this period was 0.01PPM, which was the same as December. The maximum and average values are based on the 5-minute averaged readings. Data trends were evaluated in the data set. These trends showed NH₃ concentrations at or above minimum detection limits occurred during periods of calm wind conditions from ~0 to 5MPH. NH₃ concentrations at or above minimum detection limits were associated with all wind direction patterns. NH₃ concentrations at or below minimum detection limits occurred during times when wind conditions were greater than 5MPH.

The CO maximum for this period was 3.14PPM and occurred on beam path 18-1J (east) on 1/12/04 at 00:45. The maximum value increased compared to from 1.69PPM to 3.14PPM. The average concentration for CO for the period was 0.51PPM. This is an increase in the average value in December from 0.29 to 0.51PPM. Data trends were evaluated in the data set. These trends showed CO concentrations occurring during periods of calm wind conditions and also occasionally occurring simultaneously with CH₄ spiking, indicating the possible source being trains or vehicle traffic in the pond area. The maximum and average values are based on the 5-minute averaged readings.

3.1.4 Hourly Data Discussion

The hourly composite data showed the smoothing effect of averaging the 5-minute data points. Appendix A contains the hourly averaged data from January 1 thru 23, 2004 and is provided on CD ROM discs. Any data biases are corrected in this data set. The EPA and Tribes have requested Appendix B be omitted from their copies of this report. Appendix C contains all fence line phosphine monitoring data for stations #1 through #6. The trends depicted by review of the five-minute data are generally reflected in the hourly data set.

PH₃ showed a slight increase in concentration levels but showed a decrease in duration throughout the entire 23-day period in January. The maximum at 0.30PPM was an increase from the 4th Quarter 2003 maximum of 0.18PPM. The average concentration level seen during this period remained below detection limits and was comparable to the 4th Quarter 2003, which was also below detection limits.

HCN concentrations remained near or below instrument set detection limits throughout the 23-day period in January 2004.

NH₃ concentration levels were comparable to December 2003 levels, but the duration decreased. The average concentration of NH₃ for the 23-day period in January 2004 was essentially zero, which was a decrease from the 4th Quarter 2003 at 0.01PPM. Any spiking episodes seen are a result of plume impacts coming from northeast of the pond area.

CO concentration levels increased as compared to the 4th Quarter 2003. Any emissions exceeding ambient levels are from vehicle and train sources located either near the pond area or north of the pond area. The maximum CO concentrations observed throughout the entire 23-day period of January 2004 remained far below applicable air quality standards.

3.1.5 Meteorological Data

Meteorological data continued to be collected for the 23-day period in January 2004 from the pond area tower system, collecting wind speed, wind direction, temperature, 10-m delta temperature, solar radiation, relative humidity, precipitation, and pressure on the system data logger. The meteorological data were archived in 15-minute segments, and saved for future analysis. A general meteorological summary follows, which only contains data for the 1st 23 days of January 2004. Figure 3.1 provides the Wind Rose for this period.

A summary of the wind rose for the 23-day period in January 2004 indicates significant WSW, SW, SSW, and S winds at greater than 21MPH. There were less significant wind components from the remainder of the wind sectors. Very calm wind conditions from 0 to 3 MPH occurred approximately 40% of the time from all wind sectors. Winds ranging from 4 to 10 MPH occurred approximately 42% of the time and winds ranging from 11 to 21 MPH occurred approximately 13% of the time. Major winds from greater than 21 MPH occurred approximately 5% of the time. The average wind speed for the period was approximately 5.3MPH.

3.2 Specific Data Analysis

3.2.1 Action Level Exceedances and Exceedance Evaluations

There were no exceedances for PH₃ or HCN during the period.

3.2.2 Hydrogen Fluoride Assessment

Hydrogen fluoride (HF) was looked for during spectral validation. The absence of hydrogen fluoride (HF) was confirmed during spectral validation by visual inspection of the HF region by use of a reference spectrum of known concentration.

Section 4 - Quality Assurance

4.1 General Discussion

Quality assurance for the program included data evaluation using TO-16 parameters on an on-going and interactive basis. QA/QC also included some cursory data validation on a weekly or semiweekly basis, and semiannual system and performance audits. The data from the audits were used for data precision and accuracy assessments.

Monthly the OP-FTIR data were independently reviewed using the Unisearch ConcView software program. This software allows for rapid cursory review of the entire monthly data set.

FREQUENCY OF WIND SPEED AND DIRECTION

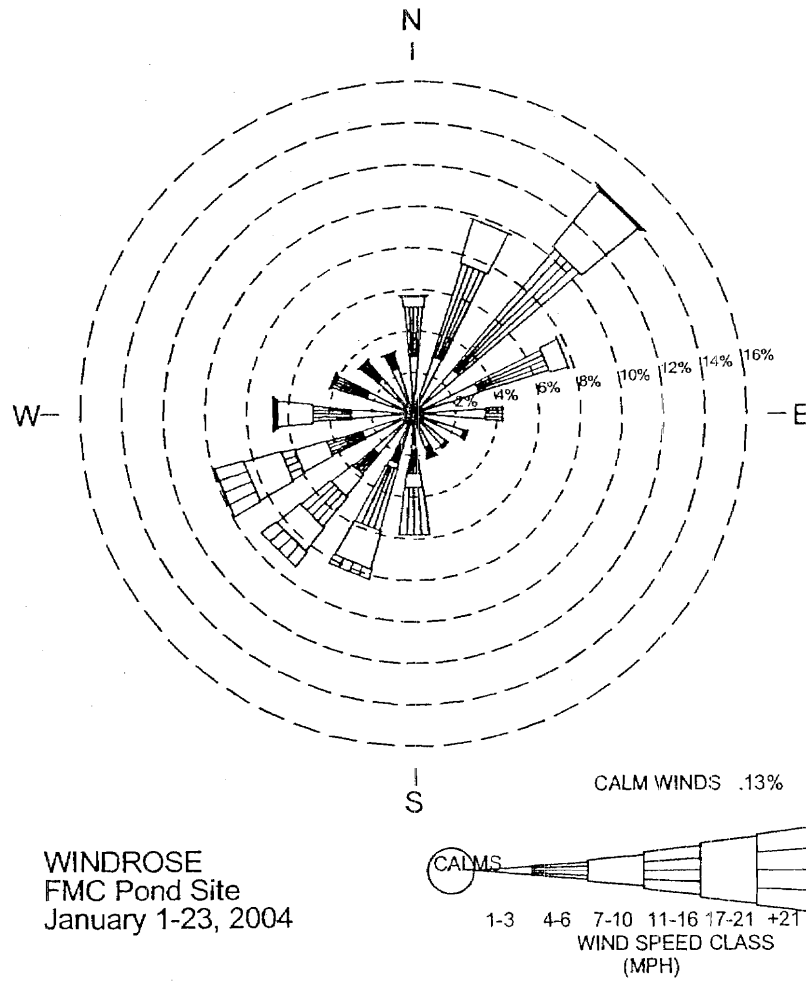


Figure 3.1

4.1.1 January 1 thru 23, 2004

QA activities carried out during this period consisted of data validation and background updating as required.

The FMC Pond OP-FTIR System operated normally. Overall the OP-FTIR hardware performed well during this period. Weather related impact contributed the most to downtime for this period, followed by a failed detector and finally normal hardware and software maintenance. HCN bias affected all four-pond paths at -.145 to -0.050 PPM during the period. All biases were corrected for in the hourly data set.

4.2 Spectral Validation

Spectra were selected from each operational beam path and independently validated throughout the period to confirm instrument acceptability, target compounds present, and concentrations of key target compounds. The results of the review were used to flag periods of marginal or unacceptable data for evaluation and to provide information for corrective actions.

Concentration values were verified by use of alternate FTIR analyses methods/regions than those used for the FMC program or by calculating the area under a data sample peak and comparing this area to the area under the same peak for a reference spectrum of known concentration. The ratio of areas and path lengths multiplied by the known reference concentration value yields a calculated data spectrum concentration.

4.2.1 January 1 thru 23, 2004

A total of 31 spectra were reviewed and validated for the 23-day period in January. Phosphine (PH₃) validation concentrations were within 2.58% of reported field analysis results obtained from the FTIR systems. Field analysis results of hydrogen cyanide (HCN) obtained from the FTIR systems were at or below instrument set detection limits. Visual inspection of the selected spectra for HCN confirmed this; therefore, quantification validations could not be carried out. NH₃ validation concentrations were within 3.04%. CO validation concentrations were within 6.37% of reported field analysis results obtained from the FTIR systems.

4.3 Nitrous Oxide (N₂O) and Delta Voltage

N₂O and delta voltages were looked at on a daily basis. These periods were investigated and data validated as necessary. The absolute value of N₂O is extremely sensitive to background; therefore, the mean value will be different for each background. Values exceeding ~15% deviation from the mean were investigated for N₂O and values of less than 1.0 volt delta voltage were investigated.

< END >

Date	Station 1	Station 2	Station 3	Station 4	Station 5	Station 6
01/01/04						
0109	0.00	0.00	0.00	0.00	0.00	0.00
0457	0.00	0.00	0.00	0.00	0.00	0.00
0926	**	**	0.00	0.00	0.00	0.00
na	**	**	**	**	**	**
na	**	**	**	**	**	**
na	**	**	**	**	**	**
01/02/04						
na	**	**	**	**	**	**
na	**	**	**	**	**	**
na	**	**	**	**	**	**
na	**	**	**	**	**	**
na	**	**	**	**	**	**
na	**	**	**	**	**	**
01/03/04						
na	**	**	**	**	**	**
na	**	**	**	**	**	**
na	**	**	**	**	**	**
na	**	**	**	**	**	**
1602	0.00	0.00	0.00	0.00	0.00	0.00
2113	0.00	0.00	0.00	0.00	0.00	0.00
01/04/04						
0116	0.00	0.00	0.00	0.00	0.00	0.00
0511	0.00	0.00	0.00	0.00	0.00	0.00
0815	0.00	0.00	0.00	0.00	0.00	0.00
1230	**	**	**	**	**	**
na	**	**	**	**	**	**
na	**	**	**	**	**	**
01/05/04						
na	**	**	**	**	**	**
na	**	**	**	**	**	**
na	**	**	**	**	**	**
1303	0.00	0.00	0.00	0.00	0.00	0.00
1636	0.00	0.00	0.00	0.00	0.00	0.00
2110	0.00	0.00	0.00	0.00	0.00	0.00
01/06/04						
0059	0.00	0.00	0.00	0.00	0.00	0.00
0508	0.00	0.00	0.00	0.00	0.00	0.00
0832	0.00	0.00	0.00	0.00	0.00	0.00
1330	0.00	0.00	0.00	0.00	0.00	0.00
1631	0.00	0.00	0.00	0.00	0.00	0.00
2050	0.00	0.00	0.00	0.00	0.00	0.00

01/07/04							
0058	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0452	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0839	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1320	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1652	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2057	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/08/04							
0103	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0458	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0913	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1204	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1650	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2055	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/09/04							
059	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0501	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0858	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1322	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1726	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2120	0.00	0.00	0.00	0.00	0.00	0.12	0.00
01/10/04							
0120	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0532	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0904	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1304	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2118	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/11/04							
0115	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0510	0.00	0.00	0.00	0.03	0.08	0.04	0.04
0905	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1311	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1702	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2104	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/12/04							
0115	0.00	0.00	0.00	0.06	0.06	0.00	0.00
0505	0.00	0.00	0.00	0.00	0.04	0.06	0.06
0907	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1305	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2102	0.00	0.00	0.00	0.00	0.03	0.00	0.00

01/13/04							
0114	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0511	0.00	0.17	0.03	0.13	0.00	0.00	0.00
0915	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1320	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1659	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2054	0.00	0.00	0.00	0.00	0.00	0.00	0.05
01/14/04							
0107	0.00	0.00	0.00	0.00	0.04	0.00	0.00
0508	0.00	0.00	0.00	0.00	0.06	0.00	0.08
0900	0.00	0.00	0.00	0.00	0.10	0.00	0.04
1304	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2056	0.00	0.00	0.00	0.00	0.00	0.00	0.09
01/15/04							
0107	0.00	0.00	0.00	0.00	0.03	0.00	0.06
0504	0.00	0.00	0.00	0.04	0.00	0.00	0.00
0910	0.20	0.04	0.00	0.00	0.00	0.00	0.00
1302	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2058	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/16/04							
0107	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0504	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0911	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1324	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1706	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2050	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/17/04							
0038	0.00	0.00	0.03	0.00	0.00	0.00	0.00
0501	0.00	0.00	0.04	0.00	0.00	0.00	0.00
0908	0.00	0.07	0.00	0.00	0.03	0.00	0.05
1311	0.00	0.08	0.08	0.00	0.05	0.00	0.03
1707	0.00	0.00	0.13	0.00	0.00	0.00	0.00
2108	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/18/04							
0047	0.02	0.02	0.05	0.00	0.00	0.00	0.00
0443	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0930	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1318	0.00	0.07	0.00	0.00	0.03	0.00	0.04
1712	0.00	0.06	0.00	0.04	0.00	0.00	0.00
2114	0.00	0.00	0.00	0.00	0.00	0.00	0.00

01/19/04							
0030	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0446	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0900	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1303	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1701	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2025	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/20/04							
0053	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0455	0.10	0.00	0.00	0.00	0.00	0.00	0.00
0911	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1311	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1657	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2047	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/21/04							
0128	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0500	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0858	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1303	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1909	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/22/04							
0120	0.00	0.06	0.00	0.00	0.05	0.00	0.00
0522	0.00	0.00	0.00	0.04	0.00	0.08	0.00
0904	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1325	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1703	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2100	0.00	0.00	0.00	0.07	0.09	0.00	0.00
01/23/04							
0100	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0502	0.00	0.00	0.00	0.03	0.03	0.15	0.00
0903	0.16	0.00	0.00	0.00	0.11	0.00	0.00
1306	0.00	0.07	0.02	0.00	0.00	0.00	0.00
1702	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2101	0.06	0.03	0.00	0.00	0.05	0.11	0.00

** Heavy snow fall prevented access to ponds