

Helmer, Stephen

From: koskokd@aol.com
Sent: Wednesday, September 11, 2013 3:44 PM
To: Snee, Michael; Helmer, Stephen; Lipp, David; tom.tomastic@dnr.stste.ohio.us; Trivisonno, Ron
Cc: jbement@austinmasterservices.com; joebement@austinmasterservices.com; pathorkman@netscape.net
Subject: Austin Master's Radiation Protection Plan and QA/QC Plan

Gentlemen,

I just wanted to provide an update on Austin Master's progress regarding our previous discussions. To date we have:

1) Given a Power Point presentation regarding our plans to operate oil/gas field waste treatment facilities to everyone on the distribution list. The presentation also included our desire to use in-situ gamma spectroscopy for analysis of waste containers, waste samples and for use in performing unconditional (free) release surveys of oil/gas field equipment prior to contact with the general public.

2) Developed a Radiation Protection Plan (RPP) for proposed off-site (not on oil/gas pad) treatment facilities as requested by ODH (Mr. Snee). This RPP is currently being reviewed internally by one of our CHPs and we expect to submit it in Draft form to ODH for review by 09/20/13. To whom should we address our submittal to? Does this document only have to go to ODH or should we also submit copies to ODNR? OEPA?

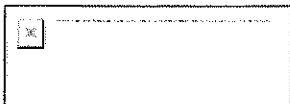
NOTE: We also plan to also treat waste on the pad site but understand that a state issued permit and a RPP are not necessarily required for on-site treatment. Is this understanding correct?

3) We are working on a QA/QC Plan for our analytical services (ISOCS in-situ gamma spec). As discussed, analytical comparisons with an accredited lab as well as determination of in-growth correction factors are integral parts of this plan. We are diligently trying to get samples of material with differing physical composition (sludge, soil, pipe scale) and within the desired radionuclide concentration range (1 pCi/g to 400pCi/g). Unfortunately, we have yet to be able to contact the right person(s) to obtain this material. We have several prospective leads and expect to be able to resolve the sampling issues within a couple of weeks. We have however started work on the QA/QC Plan and expect to complete it in Draft form by the end of next week (without the analytical data) and we expect to be able to submit a Draft by 09/27/13. It would be a great help to us if you would consider reviewing our QA/QC Plan that will include: sampling/analysis methodology, approach to of proving consistency with the lab, radon in-growth correction factor determination, worker qualification requirements, source check methodology etc. while we work in parallel to get our samples collected and counted. To whom should we address the QA/QC Plan?

It would be very helpful to us to have a single meeting with all of the applicable Ohio regulatory authorities that we may be working with on our proposed business venture. We propose to hand deliver the RPP and briefly go over it's primary objectives with representatives from your agencies and answer any questions you may have. I will be the Austin Master Services' point of contact for this effort and you should feel free to contact me at any time should you have any questions or concerns.

Very Respectfully.

Kevin
Kevin D. Kosko
Marketing Director
Austin Master Services
Mobile:(937) 470-2655



41990 Union St, Lisbon, OH, 44432

Helmer, Stephen

From: koskokd@aol.com
Sent: Wednesday, September 04, 2013 10:52 AM
To: Helmer, Stephen; Snee, Michael; jbement@austinmasterservices.com
Subject: Offsite TENORM Blending

Gentlemen,

Thank you again for taking the time to meet with me last week. Since our meeting I have talked with a landfill about establishing an offsite treatment (blending) facility. Can the blended material (< 5pCi/g above bkgd) be used as alternative daily cover at a construction debris disposal facility?

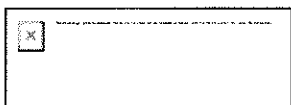
Kevin D. Kosko
Marketing Director
Austin Master Services
Mobile:(937) 470-2655

Helmer, Stephen

From: koskokd@aol.com
Sent: Monday, September 16, 2013 2:06 PM
To: Helmer, Stephen; Snee, Michael; Lipp, David; tom.tomastic@dnr.stste.ohio.us; Trivisonno, Ron
Cc: jbement@austinmasterservices.com; joebement@austinmasterservices.com; pathorkman@netscape.net; Sellers, Bradley
Subject: Re: Austin Master's Radiation Protection Plan and QA/QC Plan

Thanks Steve, we will do.

Kevin
Kevin D. Kosko
Marketing Director
Austin Master Services
Mobile:(937) 470-2655



41960 Union St. Lisbon, OH. 44432

-----Original Message-----

From: Helmer, Stephen <Stephen.Helmer@odh.ohio.gov>
To: koskokd <koskokd@aol.com>; Snee, Michael <Michael.Snee@odh.ohio.gov>; Lipp, David <David.Lipp@odh.ohio.gov>; tom.tomastic <tom.tomastic@dnr.stste.ohio.us>; Trivisonno, Ron <Ron.Trivisonno@dnr.state.oh.us>
Cc: jbement <jbement@austinmasterservices.com>; joebement <joebement@austinmasterservices.com>; pathorkman <pathorkman@netscape.net>; Sellers, Bradley <Bradley.Sellers@dnr.state.oh.us>
Sent: Mon, Sep 16, 2013 2:02 pm
Subject: RE: Austin Master's Radiation Protection Plan and QA/QC Plan

Kevin,

I would recommend you send your plans to ODNR.
I believe the contact is Ron Trivisonno, but he can confirm this.

Thanks,

Stephen Helmer

Stephen Helmer
Program Administrator
Bureau Radiation Protection

Ohio Department of Health
35 E. Chestnut St., 7th Floor
Columbus, Ohio 43215
Office: 614-728-3611
Fax: 614-466-0381

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Very Respectfully.

Kevin
Kevin D. Kosko
Marketing Director
Austin Master Services
Mobile:(937) 470-2655

41990 Union St. Lisbon, OH. 44432

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Helmer, Stephen

From: koskokd@aol.com
Sent: Tuesday, September 17, 2013 9:11 AM
To: Trivisonno, Ron; Helmer, Stephen; Snee, Michael; Lipp, David; tom.tomastic@dnr.stste.ohio.us
Cc: jbement@austinmasterservices.com; joebement@austinmasterservices.com; pathorkman@netscape.net; Sellers, Bradley; Pratt, Beth; Arthur, Blake; Worstall, Robert
Subject: Re: Austin Master's Radiation Protection Plan and QA/QC Plan

Thanks Ron, will do.
Kevin D. Kosko
Marketing Director
Austin Master Services
Mobile:(937) 470-2655



41990 Union St. Lisbon, OH. 44432

-----Original Message-----

From: Trivisonno, Ron <Ron.Trivisonno@dnr.state.oh.us>
To: koskokd <koskokd@aol.com>; Helmer, Stephen <Stephen.Helmer@odh.ohio.gov>; Snee, Michael <Michael.Snee@odh.ohio.gov>; Lipp, David <David.Lipp@odh.ohio.gov>; tom.tomastic <tom.tomastic@dnr.stste.ohio.us>
Cc: jbement <jbement@austinmasterservices.com>; joebement <joebement@austinmasterservices.com>; pathorkman <pathorkman@netscape.net>; Sellers, Bradley <Bradley.Sellers@dnr.state.oh.us>; Pratt, Beth <Beth.Pratt@dnr.state.oh.us>; Arthur, Blake <Blake.Arthur@dnr.state.oh.us>; Worstall, Robert <Robert.Worstall@dnr.state.oh.us>
Sent: Tue, Sep 17, 2013 8:04 am
Subject: RE: Austin Master's Radiation Protection Plan and QA/QC Plan

Kevin:
Please submit your facility plan to me and copy Tom Tomastic and Stephen Helmer.

Thanks,

Ron Trivisonno, P.E.
ODNR Division of Oil and Gas Resources Management
2045 Morse Rd., Bldg. F-2
Columbus Ohio 43229-6693

614.265.6924 office

From: koskokd@aol.com [<mailto:koskokd@aol.com>]
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Stephen Helmer

Stephen Helmer
Program Administrator
Bureau Radiation Protection
Ohio Department of Health
35 E. Chestnut St., 7th Floor
Columbus, Ohio 43215
Office: 614-728-3611
Fax: 614-466-0381

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Very Respectfully.

Kevin
Kevin D. Kosko
Marketing Director
Austin Master Services
Mobile:(937) 470-2655

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Helmer, Stephen

From: koskokd@aol.com
Sent: Monday, October 07, 2013 7:11 PM
To: Helmer, Stephen
Cc: jbement@austinmasterservices.com
Subject: Re: ENVIROCLEAN Inc.

Thanks Steve, we have a meeting set with ENVIROCLEAN Friday and plan on sampling while at their facility.

We sincerely appreciate your help.

Kevin
Kevin D. Kosko
Marketing Director
Austin Master Services
Mobile:(937) 470-2655



41990 Union St. Lisbon, OH. 44432

-----Original Message-----

From: Helmer, Stephen <Stephen.Helmer@odh.ohio.gov>
To: koskokd <koskokd@aol.com>
Sent: Mon, Oct 7, 2013 9:56 am
Subject: RE: ENVIROCLEAN Inc.

Kevin,

I recommend you call this company.

I discussed your mutual interest in finding a way to scan and document trucks, roll-offs, etc. that are going to landfills for disposal.

I mentioned your company and briefly discussed what you are trying to do and they indicated their approval.

Enviroclean Inc. deals with

- Treatment of Hazardous Waste
- Oil & Gas Industry Waste Disposal
- Tanker & Vacuum Truck Services
- Roll-off Box Services
- Recycling of Used Oil
- Storage Tank Cleaning & Drummed Waste Disposal

Stephen Helmer

Stephen Helmer
Program Administrator
Bureau Radiation Protection

Ohio Department of Health
35 E. Chestnut St., 7th Floor
Columbus, Ohio 43215
Office: 614-728-3611
Fax: 614-466-0381



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Helmer, Stephen

From: koskokd@aol.com
Sent: Wednesday, November 20, 2013 12:26 PM
To: Tomastik, Tom; Trivisonno, Ron; Helmer, Stephen; Snee, Michael;
jbement@austinmasterservices.com
Subject: Meeting to Discuss TENORM Study

Gentlemen,

We are nearing the completion of our TENORM study and would like to schedule a meeting to discuss the results. I spoke with Tom and Steve and it appears that the week of December 1st is the best time to get everyone together. I would like to propose that we meet Wednesday, December 4th at 10:00 AM at ODNR headquarters. Please let me know if this date/time is acceptable to you.

We look forward to presenting the results of our study, our QA Plan and application for a 3219 License at the meeting.

V/r

Kevin
Kevin D. Kosko
Marketing Director
Austin Master Services
Mobile:(937) 470-2655

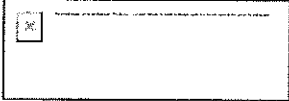


41999 Union St. Lisbon, OH 44432

Helmer, Stephen

From: koskokd@aol.com
Sent: Wednesday, November 20, 2013 12:31 PM
To: Helmer, Stephen
Subject: Re: 3219 Licensee's and Waste Brokers

Thanks Steve.
Kevin D. Kosko
Marketing Director
Austin Master Services
Mobile:(937) 470-2655



41990 Union St. Lisbon, OH. 44432

-----Original Message-----

From: Helmer, Stephen <Stephen.Helmer@odh.ohio.gov>
To: koskokd <koskokd@aol.com>
Sent: Wed, Nov 20, 2013 12:18 pm
Subject: RE: 3219 Licensee's and Waste Brokers

Kevin,

Here you go.

Stephen Helmer

Stephen Helmer
Program Administrator
Bureau Radiation Protection



Ohio Department of Health
35 E. Chestnut St., 7th Floor
Columbus, Ohio 43215
Office: 614-728-3611
Fax: 614-466-0381

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Helmer, Stephen

From: koskokd@aol.com
Sent: Monday, December 02, 2013 11:04 AM
To: Tomastik, Tom; Helmer, Stephen; Trivisonno, Ron; Snee, Michael; jbement@austinmasterservices.com
Subject: Re: Meeting to Discuss TENORM Study

Gentlemen,

Due to unforeseen circumstances beyond our control we will not be able to attend the meeting scheduled for Wednesday, December 4th. If possible we would like to reschedule for the week of December 9th. Please let me know what your schedule looks like for that week.

I apologize for the late cancellation and look forward to meeting with all of you.

Respectfully,

Kevin D. Kosko
Marketing Director
Austin Master Services
Mobile:(937) 470-2655



41990 Union St, Lisbon, OH, 44432

-----Original Message-----

From: Tomastik, Tom <Tom.Tomastik@dnr.state.oh.us>
To: 'koskokd@aol.com' <koskokd@aol.com>
Sent: Thu, Nov 21, 2013 7:03 am
Subject: RE: Meeting to Discuss TENORM Study

Kevin:

That works for me.

Tom Tomastik, Geologist 4
Division of Oil and Gas Resources Management
2045 Morse Road, F-2
Columbus, Ohio 43229-6693
(614) 265-1032

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We look forward to presenting the results of our study, our QA Plan and application for a 3219 License at the meeting.

V/r

Kevin
Kevin D. Kosko
Marketing Director
Austin Master Services
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<!--[if !vml]--><!--endif-->
41960 Union St. Lisbon, OH 44432

Helmer, Stephen

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Sent: Wednesday, December 04, 2013 8:53 AM
To: Helmer, Stephen; Tomastik, Tom; Trivisonno, Ron; Snee, Michael;
jbement@austinmasterservices.com
Subject: Re: Meeting to Discuss TENORM Study

All,

Let's reschedule for Monday the 9th at 10:00 AM at ODNR Headquarters.

I look forward to working with all of you and again apologize for the delay.

Kevin
Kevin D. Kosko
Marketing Director
Austin Master Services
Mobile:(937) 470-2655



41560 Union St. Lisbon, OH. 44432

-----Original Message-----

From: Helmer, Stephen <Stephen.Helmer@odh.ohio.gov>
To: koskokd <koskokd@aol.com>; Tomastik, Tom <Tom.Tomastik@dnr.state.oh.us>; Trivisonno, Ron <Ron.Trivisonno@dnr.state.oh.us>; Snee, Michael <Michael.Snee@odh.ohio.gov>; jbement <jbement@austinmasterservices.com>
Sent: Mon, Dec 2, 2013 2:34 pm
Subject: RE: Meeting to Discuss TENORM Study

Yes, I can make the 9th.

Stephen Helmer

Stephen Helmer
Program Administrator
Bureau Radiation Protection

Ohio Department of Health
35 E. Chestnut St., 7th Floor
Columbus, Ohio 43215
Office: 614-728-3611
Fax: 614-466-0381

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Tom Tomastik, Geologist 4
Division of Oil and Gas Resources Management
2045 Morse Road, F-2
Columbus, Ohio 43229-6693
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V/r

Kevin
Kevin D. Kosko
Marketing Director
Austin Master Services
Mobile:(937) 470-2655

<!--[if !vm]--><!--[endif]-->
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Helmer, Stephen

From: koskokd@aol.com
Sent: Tuesday, December 10, 2013 7:01 AM
To: Helmer, Stephen
Cc: jbement@austinmasterservices.com
Subject: Fwd: Response from Richard Kinney

Steve,

I am forwarding correspondence that I had with PACE laboratory regarding radon in-growth and how it affects original vs 21 day sample activity. Jackie Collins (the lady that sent the email) is our Project Manager and Richard Kinney is the Lab Manager. The lab phone number is (724) 850-5600 if you would like to contact them directly.

Please let me know if you need anything else or if you have any questions.

Thanks again for taking the time to meet with us yesterday.

Kevin D. Kosko
Marketing Director
Austin Master Services
Mobile:(937) 470-2655



41690 Union St Lisbon, OH. 44432

-----Original Message-----

From: Jacquelyn Collins <Jacquelyn.Collins@pacelabs.com>
To: koskokd <koskokd@aol.com>
Sent: Tue, Dec 3, 2013 6:36 pm
Subject: Response from Richard Kinney

See answers to your inquiries below:

The initial quick counts for Ra-226 are performed using the 186 keV energy line of Ra-226. This energy conflicts with a peak of naturally-occurring U-235 contained in the samples. The initial result is biased high due to conflicts with U-235. So, the initial count is an overestimate and field personnel can often use the results to make quick decisions regarding a waste path.

The ingrowth count results is typically lower because there are no conflicts using the radon-222 daughter peaks we use. The peaks we use are 241.92, 295.22, 351.99, 609.31, 1120.29, and 1764.49 keV.

No, we don't normalize the results. We analyze the samples on a detector that has been calibrated for the same geometry using a NIST-traceable source.

Thank you for your business. It is greatly appreciated.

*Jackie
Jacquelyn Collins
Project Manager*



Pace Analytical
Pittsburgh Laboratory
1638 Roseytown Road
Suites 2,3 & 4
Greensburg, PA 15601
Direct Dial: 724-850-5612
Office: 724-850-5600
jacquelyn.collins@pacelabs.com

Helmer, Stephen

From: koskokd@aol.com
Sent: Tuesday, December 10, 2013 7:13 AM
To: Helmer, Stephen
Cc: jbement@austinmasterservices.com
Subject: Re: 3219 Licensee's and Waste Brokers

Steve,

As we discussed yesterday the intent of our radioactive materials license application is to allow us to establish a laydown/storage yard, operate a blending facility, work as a licensed waste broker and to be able to apply our Radiation Protection Program at customer facilities for those that do not possess the ability or desire to develop/maintain a radiation protection program of their own.

Will the license application we submitted allow us to perform all of these tasks? If, not what other applications do we need to complete?

V/r

Kevin
Kevin D. Kosko
Marketing Director
Austin Master Services
Mobile:(937) 470-2655



41550 Union St Lisbon, OH. 44432

-----Original Message-----

From: Helmer, Stephen <Stephen.Helmer@odh.ohio.gov>
To: koskokd <koskokd@aol.com>
Sent: Wed, Nov 20, 2013 12:18 pm
Subject: RE: 3219 Licensee's and Waste Brokers

Kevin,

Here you go.

Stephen Helmer

Stephen Helmer
Program Administrator
Bureau Radiation Protection

Ohio Department of Health
35 E. Chestnut St., 7th Floor
Columbus, Ohio 43215
Office: 614-728-3611
Fax: 614-466-0381



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Helmer, Stephen

From: koskold@aol.com
Sent: Tuesday, December 10, 2013 2:54 PM
To: Helmer, Stephen
Subject: Power Point Presentation
Attachments: ODNR Presentation Rev 1.pptx

Here you go Steve, please let me know if you or your colleagues have any questions.

V/r

Kevin
Kevin D. Kosko
Marketing Director
Austin Master Services
Mobile:(937) 470-2655
41990 Union St Lisbon, OH. 44432



Austin Master Services
 Technology • Remediation • Engineering

**RADIOLOGICAL CHARACTERIZATION
 OF EQUIPMENT AND ON SITE
 PROCESSING OF TENORM**

Presented by:
 Austin Master Services
 PO Box 275
 Pottstown, Pennsylvania 19464
 Contact: Kevin Kosko Marketing Manager (937) 479-2655

Background: Over the past several years oil/gas exploration has drastically increased in the state of Ohio. As a result, shale energy is expected to contribute 65,000 jobs, with an average salary of \$50,225 per job, and more than \$4.8 billion to Ohio's economy by 2014. Nationally, shale energy contributed 600,000 jobs and more than \$74 billion to U.S. GDP in 2010 alone [Source: Youngstown Vindicator].

With the passage of House Bill 527 ODNR is tasked with regulating Technically Enhanced Naturally Occurring Radioactive Material created during the hydro-fracturing process.

THE BOOM IS HERE

The radioactive material categories found in Oil & Gas exploration and production (E&P) associated with drilling and hydraulic fracturing include the following:

- "Earthen material" from the drilling process - NORM*
- "Earthen material" with residual coating of refined oil based muds - NORM*
- Recycled drilling mud - TENORM*
- Recycled hydraulic fracturing water / flowback water including some brine (likely concentrated) - TENORM*
- Spent tank bottoms - TENORM*
- Filtrate, either liquid or solid, that results from, created during, processing and/or recycling of used hydraulic fracturing water, flowback water, or produced water - TENORM*
- Used hydraulic fracturing sands - TENORM*
- Brine - NORM*
- Pipe scale (buildup) - TENORM*

* Source ODH NORM/TENORM Information Sheet

**NORM/TENORM MATERIALS GENERATED BY
 HYDRO-FRACTURING OPERATIONS**

- Radiation exposures from TENORM will vary based on individual activities.
- Approximately 100 tons of scale per oil well are generated annually in the United States. As the oil in a reservoir declines, operators water is pumped out with the oil. The amount of scale is directly related to the amount of water introduced into the formation to enhance recovery. But also increases scale formation.
- The average radium concentration in scale has been estimated to be 480 pCi/g. It can be much higher (as high as 40,000 pCi/g) or lower (depending on regional geology). Radium-226 and radium-228 are the two most common radionuclides found in scale. A typical barrel of scale from a well in Ohio contains 100 lbs of scale. If the scale contains a concentration of combined Radium-226 and Radium-228 equal to 5 pCi/g, excluding natural background it is 79.4 millicuries.
- ODH estimates a 100-million-year limit on radiation exposure to a member of the public resulting from licensed radioactive material activities.
- *Source USEPA Weblogist
- **Source: President's Blue Ribbon Commission on America's Nuclear Future Report to the Secretary of Energy January 2012

WHAT ARE THE RELATIVE RISKS FROM RADIATION EXPOSURES TO THE PUBLIC?

Oil & gas drilling-related waste, other than brine, that is TENORM must be sampled prior to being disposed of to determine the concentration of radium-226 and radium-228.

Wastes containing TENORM cannot be disposed of at an oil and gas drill site.

Solid waste landfills can only accept TENORM wastes for disposal at concentrations less than 5 picocuries per gram above natural background.

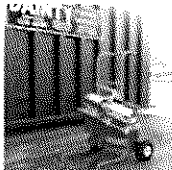
Typical waiting times to receive results of waste samples is 28 days. This is due to the radon in-growth period needed for traditional analytical methods.

These delays are creating a serious problem that will only get worse with increased drilling activities.

ANALYTICAL DELAYS ARE "CONSTIPATING" OIL/GAS EXPLORATION IN OHIO.

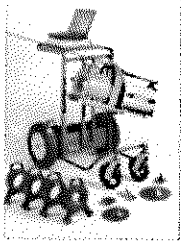
In August 2013 Austin Master Services met with representatives from ODNr and ODH separately. During these meetings AMS presented our approach to solve the costly delays created by traditional radium analysis.

AMS APPROACH TO TENORM WASTE CHARACTERIZATION



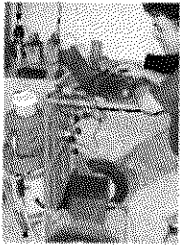
AMS proposed the use of In-situ Object Counting Systems (ISOCSS™) gamma spectroscopy as a solution.

ISOCSS is commonly used for waste/facility characterization and unconditional release of areas and equipment.



WHAT IS ISOCS

- Numerical Calibration Software
- Canberra Industries (AREVA) Commercial Product
- Absolute Calibration of HPGe Detectors
- Based on a Monte Carlo N-Particle (MCNP) Detector Specific "Characterization".
- Allows Quantification of Identified Nuclides in the Acquired Spectrum



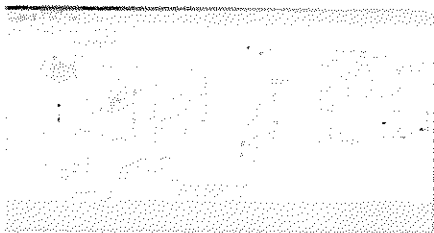
ANALYTICAL APPROACH

ISOCS can be used to analyze traditional samples or an entire container without need to access the waste material directly.

ISOCS requires accurate modeling of the source term. AMS employs several Canberra Senior Scientists to perform initial modeling of objects prior to initiation of an analytical sequence.

Vendor (Canberra) trained operators perform analysis of samples, waste containers or contaminated objects.

Analysis of Data verified/validated by Subject Matter Experts (SMEs)

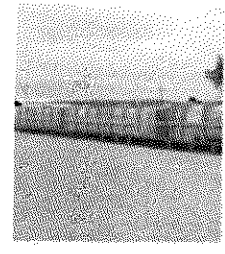


TANK MODEL EXAMPLE

Technical articles on ISQCS
The following references provide technical detail on the 2007 characterization process and evolution of the process:
W. F. Mueller, F. Simpson, M. Field, K. Adams, D. Nakajima, R. Sankaranarayanan and S. Prakash: *Challenges and techniques to effectively characterize the efficiency of bond energy generation detected at energies less than 45 keV in Eight International Conferences on Methods and Approaches of Radiological Chemistry*, 2008
W. Zhu, K. Adams, W. F. Mueller, M. Field, R. Sankaranarayanan, S. Prakash, F. Simpson, and S. Gupta: *National Fire Center: Validation of the condensed-fuming-combustion test*, 2000
V. J. 2 in Eight International Conference on Methods and Approaches of Radiological Chemistry, 2007
F. Simpson, G. Chalkin, B. Young, and S. Prakash: *Protocols to analyze, simulate for gamma spectrometry measurements*. *Journal of Radioanalytical and Nuclear Chemistry*, 274(5): 555-561, 2008
R. Sankaranarayanan, F. Simpson, S. Prakash, M. Field, and B. M. Young: *Improved detector response characterization method in MFCB and LSC-DOB*. In *Methods and Approaches of Radiological Chemistry*, 44(2): 103-108, 2000
A. Sankaranarayanan, F. Simpson, V. A. Kulkarni, B. M. Young, and M. Field: *Validation of In Situ Object Counting System (ISQCS) measurement software calibration software*. *Standards relevant to ISQCS*
American National Standards Institute: *ANSI N13.28: 2007 American National Standard for Calibration of Germanium Detectors for Radioactive Material Measurements*, 2007
American Nuclear Society: *ANSI N42.1: American National Standard for Calibration and Performance Monitoring Standards for Gamma*, 1999
Applications and Independent Validations of ISQCS
The following references describe application reasons and field use of ISQCS. The breadth of applications is a measure of the versatility and working performance of the In Situ Object Counting System.
J. Li, Y. Li, Y. Wang, and J. Wu: *Application study of using in situ gamma-ray spectrometry technique for 137Cs and 210Pbex in-house measurements in industrial environment*. *Applied Radiation and Isotopes*, 68(10): 1140 - 1145, 2010
A. Sankaranarayanan, F. Simpson, V. A. Kulkarni, B. M. Young, and M. Field: *Monitoring analysis of air cleaning filter cartridges and 210L cleanup by a gamma detector*. *Applied Radiation and Isotopes*, 63(10): 1214 - 1217, 2002. *Proceedings of the 17th International Conference on Radiation Metrology and Applications*, 2002
M. H. Kim, S. T. Lee, and K. J. Lee: *Exposure concept for ICR in Korea*. *Current status of metrology and the disposal plan*. *Progress in Applied Electrodynamics*, 5(1): 147 - 153, 2003
H. J. Wu, T. C. Bai, J. J. Wang, J. L. Chen, J. C. Wu, and T. J. Wang: *On-line measurement of metal traces for nuclear facility at INEL in Taiwan*. *Applied Radiation and Isotopes*, 61(11): 1849 - 1850, 2003. *International Conference on Radioactive Methods - Low Level Radioactivity Measurement Technology (RAM-LISAT 03)*
H. W. Fischer, J. R. Pappell, J. P. Roberts, and G. B. Shapiro: *Investigation of 137Cs concentration in nuclear reactor cooling water*. *IEEE Trans. Nucl. Sci.*, 34(4): 12 International Conference of the Atomic Energy Commission (International Atomic Energy Agency, 2008)
J. Dean: *INEL Project BR 2, environmental procedures used at UK nuclear sites for gamma assays of potentially contaminated or activated materials*. Technical report, 2007

- ▶ During our August meetings AMS requested permission to use the ISQCS technology for waste characterization.
- ▶ ODNR/ODH regulators were not opposed to the idea but asked AMS to provide a Quality Assurance/Quality Control Plan commensurate with a certified Laboratory.
- ▶ AMS and ODH regulators discussed the Radiological Materials license application protocol. AMS plans to operate a storage/processing facility to down-blend waste, decontaminate piping and equipment and perform waste characterization. Our application for a Radioactive Materials license is complete.

OUTCOME FROM INITIAL MEETINGS WITH OHIO REGULATORS.

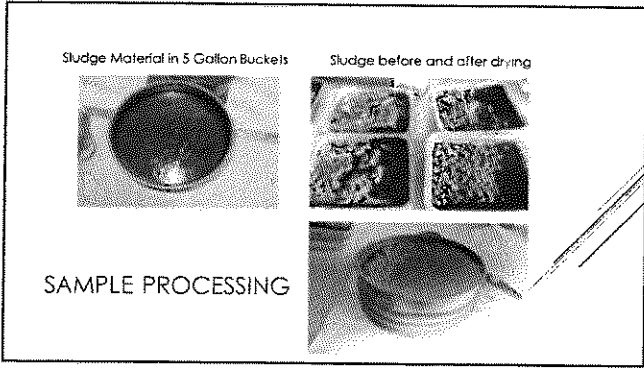


TENORM ANALYSIS STUDY

On September 8th, 2013 AMS technicians sampled 11 tanks at an Ohio Class II disposal well.

Samples of sludge material were taken from each corner and the center of each tank.

It should be noted that several diligent attempts were made to gain access to additional facilities for sampling.



SAMPLE ANALYSIS PROCEDURE

Sample 001 from each tank was put into a 500 ml straight walled Nalgene sample container; the sample was weighed and counted by AMS as is (wet). The sample material was then dried, ground and recounted by AMS in Nalgene jars. The sample material was then "canned" and counted again by AMS twenty one days later to determine the effect of radon progeny in-growth. After the second counting sequence the canned sample was counted by PACE Laboratory. These samples were retained and are available to the state for independent verification.

SAMPLE ANALYSIS CONTINUED

Sample 002 from each tank was dried in an aluminum dish, ground and placed into a 500 ml straight walled Nalgene sample container. Each sample was then counted by AMS. These samples were retained by AMS (not sent to the lab), "canned" and recounted after the twenty one day radon progeny in-growth period. After the second counting sequence the canned samples were counted by PACE Laboratory. These samples were retained and are available to the state for independent verification.

SAMPLE ANALYSIS CONTINUED

Samples 003 and 004 from each tank were dried in an aluminum dish, ground, placed in 500 ml Nalgene containers and counted by AMS. The samples were then transported to PACE Laboratory in Greensburg, PA and analyzed the day after receipt. The samples were re-analyzed by Pace after twenty one days and returned to AMS. AMS then recounted the samples that had reached secular equilibrium. These samples are available to the State for independent verification.

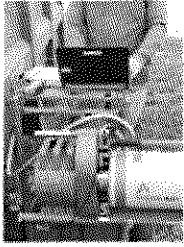
SAMPLE ANALYSIS CONTINUED

Sample 005 from each tank was liquid that precipitated on the top of each five-gallon bucket. All eleven liquid samples were analyzed by AMS. Six of the eleven samples were sent to Pace for analysis and the other five samples retained by AMS. The five liquid samples were "canned" and recounted by AMS after the twenty one day radon progeny in-growth period.

SAMPLE ANALYSIS CONTINUED

Sample 006 from each tank was a wet sludge sample in a 500ml Nalgene jar. Each sample was counted by AMS and then transported to Summit Laboratory in Cuyahoga Falls, Ohio for analysis. By using a second lab AMS establishes additional credibility that our counting methodology will yield results similar to accredited laboratories.

All samples were returned to AMS and are available to the State for independent verification if so desired.



IN-SITU MEASUREMENTS

One very significant advantage of the technology that employs Canberra mobile AMS (AMS) is the ability to not only count samples but to analyze these equipment in situ. This technology can be utilized to analyze tanks, trucks, pumps, pipe, roll off containers etc. in the field without ever having to enter or open the item to collect samples.

On 1/21/13 AMS personnel returned to the injection well facility to analyze three tanks that were previously sampled.

The team collected spatial measurements and wall thickness readings as the tanks could be rotated if needed. Weights of the material contained in the tanks were measured by the host site. The team also took moisture readings from all sides of the tanks. DQCS measurements were then taken from all sides of the three tanks.

Typically, measurements are only required on one tank side as long and the waste contained therein is homogeneous in nature. Measurements on all four sides of a container are typically performed when a waste stream contains materials with significant variations in concentration.

STUDY RESULTS INITIAL COUNTING SEQUENCE

A total of 66 samples were collected of sludge/waste material. An additional 6 samples were taken of fly ash (potential down-blending source) and two samples of vertical well cuttings.

The overall average of initial results (short count) were compared.

The overall average of initial results (short count) were compared. The AMS results were 5% lower than those reported by PACE Laboratory.

The AMS results were 13% lower than those reported by Summit Laboratory. It should be noted that AMS counted these samples in their natural state (wet) and the same samples were counted dry by Summit.

Both comparisons were well within +/- tolerances promulgated in the AMS QA/QC Plan (20%).

STUDY RESULTS 21 DAY COUNT

A total of 48 samples were compared after reaching secular equilibrium (at least 21 day in-growth).

AMS and laboratory results from samples that were counted using the in-growth method (21 day turnaround time) compared well. The average AMS results were 7% higher than those reported by PACE.

A best square analysis was then applied to the sample set. The results were a high 0.8 indicating a very good correlation between the two sample sets.

These results are well within the acceptable error rate of 20% promulgated by the AMS QA/QC Plan.

IN-SITU ANALYSIS

In-situ characterization was performed on three vacuum tanks at the host facility. Tanks were separated by ~30 yards to minimize interference from elevated background radiation.

Often in-situ measurements are actually more precise than traditional sampling as sampling errors are eliminated and the entire population is analyzed.

In-situ tank measurements were averaged and compared to AMS and Pace laboratory sample results.

Initial AMS sample results were on average 1.5% lower (Ra-226/228 combined) than the in-situ measurements.

Final AMS sample results on average were 1.2% lower (Ra-226/228 combined) than in-situ measurements.

Final Pace sample results on average were 1% higher than (Ra-226/228 combined) than in-situ measurements.

CONCLUSION – In-situ measurements compared well with laboratory sample results.

OBSERVED RADIUM IN-GROWTH

Comparisons were made between the initial sample results and those of samples counted after 21 days. This was done so that AMS could accurately predict a samples concentration after secular equilibrium had been reached.

AMS initial sample results were ~1% higher than the final (21 day) sample results.

Pace initial sample results were 1.3% higher than the final (21 day) sample results.

Both AMS and Pace final sample results were lower than the final (21 day) sample results. One would most likely expect that sample results would be higher after allowing for daughter product in-growth; however due to energy interference from U-235 at the primary Ra-226 (186.21 KeV) peak the direct counting method is biased high.

SUMMARY

AMS completed the study requested by Ohio Regulators that proves our technology compares well with accredited labs.

We have submitted our quality assurance documentation and radioactive materials permit application.

AMS strongly believes that we have a viable, technically proven approach that will solve the growing problem of extended turn around times that are currently experienced by oil/gas companies and their subcontractors.

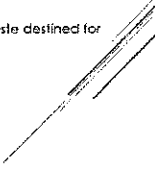
We believe this solution will increase productivity, and lower overall costs, thereby encouraging further oil/gas production in Ohio. This potential increase will lead to more jobs and an overall positive economic impact to Ohio.

We are requesting immediate permission to begin analytical operations.

We plan to immediately begin using our survey approach to characterize piping and equipment.

- ▶ Is there a consensus as to the type and frequency of TENORM waste sampling that will be required for waste disposal in Ohio?
- ▶ What is currently being done with pipe and other contaminated equipment? Will radiological surveys be required prior to release to the general public for recycle or reuse?
- ▶ When will the new TENORM rules be put into effect?
- ▶ What if any sites that store, process and/or dispose of TENORM will be required to have a radioactive materials license?
- ▶ Can AMS proceed with our plans to use ISOCs to characterize waste destined for burial in Ohio?

QUESTIONS REGARDING TENORM WASTE CHARACTERIZATION, PROCESSING AND DISPOSAL



Helmer, Stephen

From: koskokd@aol.com
Sent: Wednesday, December 11, 2013 9:26 AM
To: Helmer, Stephen
Cc: jbement@austinmasterservices.com
Subject: Analytical Request Clarification

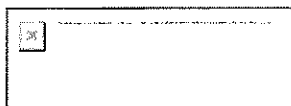
Steve,

Per our conversation I would like to clarify exactly what we are requesting at this point. We have 80 vacuum boxes we can analyze next week; we would like to use our in-situ methodology to count these boxes. We are proposing that if the measured concentration falls within +/- 20% of the decision limit (5.6 pCi/g to 8.4 pCi/g combined Ra-226/228) the boxes will be sequestered and sampled/analyzed the traditional way (samples sent to an accredited lab). If the in-situ measurements indicate the waste material is greater than 20% above or below the limit we would like to disposition the waste based solely on the ISOCS readings.

If you folks are uncomfortable with +/- 20% at this time we would consider increasing the error band, perhaps +/- 40% (9.8 pCi/g to 4.2pCi/g) on waste that would have to go to the lab for analysis.

Please let me know if you have any questions.

Kevin D. Kosko
Marketing Director
Austin Master Services
Mobile:(937) 470-2655



41300 Union St Lisbon, OH 44432

Helmer, Stephen

From: koskokd@aol.com
Sent: Wednesday, December 11, 2013 6:17 PM
To: Helmer, Stephen
Subject: Re: BRP Rules

Thanks Steve. I know this may be a bit out of your comfort zone but we are prepared to do whatever is necessary to make this work. I already ordered two mixed Ra-226/228 sand like sources configured in 500ml straight walled jars. Thank you for your consideration.

Sent from my HTC One on the Verizon Wireless 4G LTE network

----- Reply message -----

From: "Helmer, Stephen" <Stephen.Helmer@odh.ohio.gov>
To: "koskokd@aol.com" <koskokd@aol.com>
Cc: "McCracken, Chuck" <Chuck.McCracken@odh.ohio.gov>
Subject: BRP Rules
Date: Wed, Dec 11, 2013 5:27 PM

Kevin,

Chuck McCracken is the supervisor assigned to review and issue a license.

McCracken, Chuck Chuck.McCracken@odh.ohio.gov<mailto:Chuck.McCracken@odh.ohio.gov>
Phone: 614-466-5136
Fax: 614-466-0381

You are offering a different approach from what we have seen for analyzing oil and gas industry waste.
This will take some time to review, but we are aware of your concerns to get started as soon as you can.
We will just have to see how this plays out.
Your presentation and documentation is well organized and thorough.
This will make it easier for us to review.

Also,

Chuck is requesting for you to include that you will be in compliance with the follow citations:

Our bureau starts with what's in law Ohio Revised Code 3748:

<http://codes.ohio.gov/orc/3748>

Our bureau uses the following Ohio Administrative Codes to ensure compliance:

<http://codes.ohio.gov/oac/3701%3A1>

3701:1-38 General Radiation Protection Standards for Sources of Radiation

3701:1-40 Licensing Requirements for By-Product and Accelerator Produced Radioactive Materials

- 3701:1-43 Technologically Enhanced Naturally Occurring Radioactive Material (TENORM)

- 3701:1-44 Licensing of Source Material

- 3701:1-46 General Licenses and Licenses for Manufacturing and Distribution

- 3701:1-48 Radioactive Material Standards - Industrial Radiographers

- 3701:1-49 Radioactive Material Standards - Well Logging

- 3701:1-50 Packaging and Transportation of Radioactive Materials

- 3701:1-52 Radioactive Material Standards - Irradiators

- 3701:1-54 Low-Level Radioactive Waste

- 3701:1-56 Special Nuclear Materials

- 3701:1-58 Medical Use of Radioactive Materials

- 3701:1-66 Radiation Generating Equipment Requirements and Quality Assurance Standards
- 3701:1-67 Therapy Radiation Generating Equipment
- 3701:1-68 Industrial Radiation-Generating Equipment

Please do not hesitate to call if you have any questions.

Thanks,

Stephen Helmer
Stephen Helmer
Program Administrator
Bureau Radiation Protection

[cid:image003.jpg@01CEF696.250ADFC0]

Ohio Department of Health
35 E. Chestnut St., 7th Floor
Columbus, Ohio 43215
Office: 614-728-3611
Fax: 614-466-0381

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Helmer, Stephen

From: koskokd@aol.com
Sent: Thursday, December 12, 2013 5:00 PM
To: McCracken, Chuck; Helmer, Stephen
Cc: jbement@austinmasterservices.com; joebement@austinmasterservices.com
Subject: License Application
Attachments: Facility_Tracking.xlsx

Chuck/Steve,

I just wanted to let you know that the documents you requested (2 copies of the RPP and 1 copy of the implementing procedures) were completed and mailed earlier today. During our discussion yesterday you indicated that we may be able to soon begin work on some of the business lines requested in our 3219 application while others may take a while longer to review/approve.

We made a FOIA request for information on all companies currently working with TENORM that will soon require licensing, I attached the list we received. Austin Master Services desires to market turn-key services to these facilities that include:

- License application submittal assistance
- Radiation worker training
- Personal, workplace and environmental monitoring (dosimeters and air sampling)
- Radiological Safety Officers and ANSI qualified radiological control technicians staff augmentation
- A proven Radiation Protection Plan, complete with implementing procedures
- Radiation detection equipment
- Waste profiling and manifesting
- Expedited TENORM analysis with same day results

It would be great if we could get permission to perform consulting, staff augmentation, training and analysis initially and then approval for the waste processing portion of our request could come later. We would love to get Austin Masters added to the 3219 licensee list before the ODNR notification goes out later this month.

We sincerely appreciate your willingness to work with us during our application process; many thanks.

V/r

Kevin D. Kosko
Marketing Director
Austin Master Services
Mobile:(937) 470-2655

---Original Message-----

From: DNR oilandgas <oilandgas@dnr.state.oh.us>
To: koskokd <koskokd@aol.com>
Sent: Thu, Dec 12, 2013 9:30 am
Subject: RE: FOIA Request

Hi Kevin,

Attached please find a copy of the facility tracking spreadsheet.

Thank you for your request, please let me know if you have any further questions.

Kelly Rice

Office Assistant III
ODNR, Division of Oil and Gas Resources Management
2045 Morse Rd, Bldg F-2
Columbus, OH 43229
P:614-265-6927
F:614-265-6910
Kelly.Rice@dnr.state.oh.us

From: Trivisonno, Ron
Sent: Wednesday, December 11, 2013 7:31 AM
To: Rice, Kelly
Subject: FW: FOIA Request

Kelly:
Please provide Kevin with the current version of the facility tracking spreadsheet that resides on the M.

Thanks,

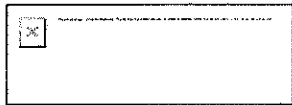
Ron Trivisonno, P.E.
ODNR Division of Oil and Gas Resources Management
2045 Morse Rd., Bldg. F-2
Columbus Ohio 43229-6693

614.265.6924 office

Helmer, Stephen

From: koskokd@aol.com
Sent: Thursday, December 12, 2013 6:09 PM
To: McCracken, Chuck
Cc: jbement@austinmasterservices.com; joebement@austinmasterservices.com; Helmer, Stephen; Light, Mark; Colleli, Jim; Snee, Michael
Subject: Re: Licensed activities

Thanks for the clarification Chuck.
Kevin D. Kosko
Marketing Director
Austin Master Services
Mobile:(937) 470-2655



41990 Union St. Lisbon, OH. 44432

-----Original Message-----

From: McCracken, Chuck <Chuck.McCracken@odh.ohio.gov>
To: koskokd <koskokd@aol.com>
Cc: jbement <jbement@austinmasterservices.com>; joebement <joebement@austinmasterservices.com>; Helmer, Stephen <Stephen.Helmer@odh.ohio.gov>; Light, Mark <Mark.Light@odh.ohio.gov>; Colleli, Jim <Jim.Colleli@odh.ohio.gov>; Snee, Michael <Michael.Snee@odh.ohio.gov>
Sent: Thu, Dec 12, 2013 6:03 pm
Subject: Licensed activities

Kevin:

In general, an ODH issued radioactive materials license is required to handle licensable quantities of radioactive materials in Ohio.

ODH category 3219 licenses are required for entities that provide "hands-on" radiological services to customers to comply with a regulatory requirement.

Providing radiological consultation services in itself does not necessarily require an ODH license.

Below is your bulleted list indicating Y (yes) a license is needed or N (no) it is not needed.

N - License application submittal assistance

100% consultation, no radioactive material handling at all.

N - Radiation worker training

Classroom training & testing with no handling of or exposure to licensable radioactive materials.

Y - Personal, workplace and environmental monitoring (dosimeters and air sampling)

Providing a radiological service to comply with a regulatory requirement.

No – if for training purposes only.

• N - Radiological Safety Officers and ANSI qualified radiological control technicians staff augmentation

Providing trained personnel to a client (supplement staff).

Yes – if client does not already have an ODH license, thus the staff is providing a radiological service to comply with a regulatory requirement.

• N - A proven Radiation Protection Plan, complete with implementing procedures

100% consultation, no radioactive material handling at all.

• Y - Radiation detection equipment

Providing instrument calibration services.

No – if simply providing instruments that are calibrated by the manufacturer, an ODH, USNRC or agreement state licensed calibration lab.

• Y - Waste profiling and manifesting

Providing a service to comply with a regulatory requirement.

Y - Expedited TENORM analysis with same day results
Providing a service to comply with a regulatory requirement.

Give me a call if you have any questions with the above determination.

Thanks,

Chuck McCracken

Supervisor, Bureau of Radiation Protection
Ohio Department of Health
246 N. High Street - 7th Floor 35 Bldg.
Columbus, OH 43215
(ph) 614.466.5136
(fx) 614.466.0381
chuck.mccracken@odh.ohio.gov

From: koskokd@aol.com [<mailto:koskokd@aol.com>]
Sent: Thursday, December 12, 2013 5:00 PM
To: McCracken, Chuck; Helmer, Stephen
Cc: jbement@austinmasterservices.com; joebement@austinmasterservices.com
Subject: License Application

Chuck/Steve,

I just wanted to let you know that the documents you requested (2 copies of the RPP and 1 copy of the implementing procedures) were completed and mailed earlier today. During our discussion yesterday you indicated that we may be able to soon begin work on some of the business lines requested in our 3219 application while others may take a while longer to review/approve.

We made a FOIA request for information on all companies currently working with TENORM that will soon require licensing, I attached the list we received. Austin Master Services desires to market turn-key services to these facilities that include:

- License application submittal assistance
- Radiation worker training
- Personal, workplace and environmental monitoring (dosimeters and air sampling)
- Radiological Safety Officers and ANSI qualified radiological control technicians staff augmentation
- A proven Radiation Protection Plan, complete with implementing procedures
- Radiation detection equipment
- Waste profiling and manifesting
- Expedited TENORM analysis with same day results

It would be great if we could get permission to perform consulting, staff augmentation, training and analysis initially and then approval for the waste processing portion of our request could come later. We would love to get Austin Masters added to the 3219 licensee list before the ODNR notification goes out later this month.

We sincerely appreciate your willingness to work with us during our application process; many thanks.

V/r

Kevin D. Kosko
Marketing Director
Austin Master Services
Mobile:(937) 470-2655

---Original Message---

From: DNR oilandgas <oilandgas@dnr.state.oh.us>
To: koskokd <koskokd@aol.com>
Sent: Thu, Dec 12, 2013 9:30 am
Subject: RE: FOIA Request

Hi Kevin,

Attached please find a copy of the facility tracking spreadsheet.

Thank you for your request, please let me know if you have any further questions.

Kelly Rice

Office Assistant III
ODNR, Division of Oil and Gas Resources Management
2045 Morse Rd, Bldg F-2
Columbus, OH 43229
P:614-265-6927
F:614-265-6910
Kelly.Rice@dnr.state.oh.us

From: Trivisonno, Ron
Sent: Wednesday, December 11, 2013 7:31 AM
To: Rice, Kelly
Subject: FW: FOIA Request

Kelly:
Please provide Kevin with the current version of the facility tracking spreadsheet that resides on the M.

Thanks,

Ron Trivisonno, P.E.
ODNR Division of Oil and Gas Resources Management
2045 Morse Rd., Bldg. F-2
Columbus Ohio 43229-6693

614.265.6924 office

From: koskokd@aol.com [<mailto:koskokd@aol.com>]
Sent: Tuesday, December 10, 2013 6:53 AM
To: Trivisonno, Ron
Cc: jbement@austinmasterservices.com
Subject: FOIA Request

Ron,

I am requesting information regarding notices that will be sent out to Ohio TENORM users requiring them to attain radioactive materials licenses. Specifically, I would like the contact information for these operators. This request is being made in accordance with the freedom of information act.

Thank you.

Kevin
Kevin D. Kosko
Marketing Director
Austin Master Services
Mobile:(937) 470-2655

41990 Union St. Lisbon, OH. 44432

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Helmer, Stephen

From: koskokd@aol.com
Sent: Monday, January 27, 2014 2:31 PM
To: McCracken, Chuck
Cc: Helmer, Stephen; jbement@austinmasterservices.com; mcampbell@austinmasterservices.com; pathorkman@netscape.net
Subject: Re: SW846 INFO
Attachments: SW-846_Chapter_9.pdf

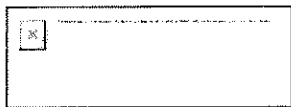
Chuck,

Attached is Chapter 9 of SW-846 which details how to develop a defensible waste sampling plan based on number of variables. The variables including waste stratification, dissimilarity in sample contaminate concentration, physical composition of the waste stream, process knowledge etc. Several statistical "tests" are provided in Chapter 9 to account for these potential variables. On the USACE project we discussed (Middlesex Sampling Plant FUSRAP) where SW-846 was applied we had a consistent waste stream (uranium ore and PAH contaminants in soil).

The oil/gas sludge we sampled had varying amounts of liquid and were dissimilar in concentration depending on where the samples were taken (top, middle or bottom).

Please let me know if this helps, AMS is willing and able to assist the state as needed.

Kevin D. Kosko
Marketing Director
Austin Master Services
Mobile:(937) 470-2655



41990 Union St. Lisbon, OH. 44432

-----Original Message-----

From: McCracken, Chuck <Chuck.McCracken@odh.ohio.gov>
To: koskokd <koskokd@aol.com>
Cc: Helmer, Stephen <Stephen.Helmer@odh.ohio.gov>
Sent: Mon, Jan 27, 2014 12:58 pm
Subject: SW846 INFO

Kevin:

FYI - I will be reviewing your latest RP-AMS-035 rev 3 this shortly.

But, right this moment I am being asked for the basis for the SW846 sampling criteria of 8 discrete samples per 2000 Yd3. Did you find where that came from yet?

Thanks,

Chuck McCracken

Supervisor, Bureau of Radiation Protection
Ohio Department of Health
246 N. High Street - 7th Floor 35 Bldg.
Columbus, OH 43215
(ph) 614.466.5136
(fx) 614.466.0381
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Helmer, Stephen

From: koskokd@aol.com
Sent: Wednesday, February 12, 2014 11:45 AM
To: McCracken, Chuck
Cc: Colleli, Jim; Light, Mark; Helmer, Stephen
Subject: Re: Austin Masters - Regulators Open House

Sweet, I look forward to meeting you.

Kevin D. Kosko
Marketing Director
Austin Master Services
Mobile:(937) 470-2655



41990 Union St. Lisbon, OH. 44432

-----Original Message-----

From: McCracken, Chuck <Chuck.McCracken@odh.ohio.gov>
To: koskokd <koskokd@aol.com>
Cc: Colleli, Jim <Jim.Colleli@odh.ohio.gov>; Light, Mark <Mark.Light@odh.ohio.gov>; Helmer, Stephen <Stephen.Helmer@odh.ohio.gov>
Sent: Wed, Feb 12, 2014 11:28 am
Subject: Austin Masters - Regulators Open House

Kevin:

Jim Colleli and I will be travelling together on Tuesday, February 18th to attend the Regulators Open House at 11:00am at Sinter Ct., Youngstown.

See you then!

Chuck McCracken

Supervisor, Bureau of Radiation Protection
Ohio Department of Health
246 N. High Street - 7th Floor 35 Bldg.
Columbus, OH 43215
(ph) 614.466.5136
(fx) 614.466.0381
chuck.mccracken@odh.ohio.gov

Gentlemen,

You and your colleagues are invited to the "Regulator Day" open house at our facility located at 240 Sinter Ct. Youngstown, Ohio. The objective of this open house is to demonstrate our capabilities in the areas of in-situ analysis for Radium-226/228, waste conditioning, tank cleaning/decontamination and regulatory compliance (licensing and staff augmentation).

Our doors will open at 11:00 AM, demonstrations will be ongoing throughout the day as needed.

Please RSVP so we can plan for the number of folks to expect from your agencies. We look forward to seeing all of you!

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Marketing Director

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Helmer, Stephen

From: Leidy, Robert
Sent: Wednesday, February 12, 2014 12:18 PM
To: Helmer, Stephen
Subject: RE: Austin Masters - Regulators Open House

Barring USEPA coming to AIM on that day, yes I can.

From: Helmer, Stephen
Sent: Wednesday, February 12, 2014 11:29 AM
To: Leidy, Robert
Subject: FW: Austin Masters - Regulators Open House

Can you make this?

Stephen Helmer

Stephen Helmer
Program Administrator
Bureau Radiation Protection



Ohio Department of Health
35 E. Chestnut St., 7th Floor
Columbus, Ohio 43215
Office: 614-728-3611
Fax: 614-466-0381



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From: McCracken, Chuck
Sent: Wednesday, February 12, 2014 11:28 AM
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Austin Master Services
Mobile:(937) 470-2655

Stephen Helmer

Stephen Helmer
Program Administrator
Bureau Radiation Protection



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Kevin D. Kosko
Marketing Director

Austin Master Services
Mobile:(937) 470-2655

Helmer, Stephen

From: Leidy, Robert
Sent: Wednesday, February 12, 2014 12:21 PM
To: Helmer, Stephen
Subject: RE: Austin Masters - Regulators Open House

Will do

From: Helmer, Stephen
Sent: Wednesday, February 12, 2014 12:20 PM
To: Leidy, Robert
Subject: RE: Austin Masters - Regulators Open House


If you can RSVP Kevin Kosko

Stephen Helmer

Stephen Helmer
Program Administrator
Bureau Radiation Protection



Ohio Department of Health
35 E. Chestnut St., 7th Floor
Columbus, Ohio 43215
Office: 614-728-3611
Fax: 614-466-0381

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From: McCracken, Chuck
Sent: Wednesday, February 12, 2014 11:28 AM
To: koskokd@aol.com
Cc: Colleli, Jim; Light, Mark; Helmer, Stephen
Subject: Austin Masters - Regulators Open House

Kevin:

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Chuck McCracken

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Marketing Director
Austin Master Services
Mobile:(937) 470-2655

Helmer, Stephen

From: Shear, Aaron
Sent: Friday, February 14, 2014 10:57 AM
To: Helmer, Stephen
Subject: Automatic reply: RE: Austin Masters Open House Next Week

I am currently out of the office and will not be returning until Tuesday, February 18th.

I will respond to your e-mail upon my return.

Thank You,

Aaron Shear

Helmer, Stephen

From: Goicochea, Joe
Sent: Friday, February 14, 2014 12:23 PM
To: Trivisonno, Ron; Helmer, Stephen; Shear, Aaron
Subject: FW: Austin Masters Open House Next Week
Attachments: Austin Masters Open House 2.18.14.pdf

I'm around today, but I do not plan to travel to Youngstown on Tuesday for the open house. FYI, I talked with Ron Trivisonno briefly about this event, and I'm not sure if anyone from his group will be going. Regardless, we all may want to coordinate a separate date in the coming weeks to visit this site and observe the technology/activities.

From: Helmer, Stephen [<mailto:Stephen.Helmer@odh.ohio.gov>]
Sent: Friday, February 14, 2014 10:57 AM
To: Shear, Aaron; Goicochea, Joseph
Subject: RE: Austin Masters Open House Next Week

Are either one of you available today for call to discuss?
I'm thinking Aaron is going to this?
We have some points for clarification (see attached.)

Stephen Helmer

Stephen Helmer
Program Administrator
Bureau Radiation Protection



Ohio Department of Health
35 E. Chestnut St., 7th Floor
Columbus, Ohio 43215
Office: 614-728-3611
Fax: 614-466-0381

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