



7130 Minstrel Way, Suite 215, Columbia, Maryland 21045 Phone (443) 319-8055 x132 Fax (240) 631-8991

September 22, 2015

Nancy E. Garry, PE, ASP HRP Associates, Inc. 1 Fairchild Square Clifton Park, NY 12065

Re: Report of Carbon Media Disposition

Dear Ms. Garry:

Pursuant to a HRP Associates, Inc. (HRP) subcontractor agreement dated July 27, 2017, and a change order dated August 14, 2015, Plexus Scientific Corporation, d.b.a. Plexus-IEM, successfully removed, packaged, surveyed, manifested, shipped and disposed of approximately 30 tons of radioactive waste located in New York.¹ The purpose of this letter is to provide you and your client with a record of the project, and to transmit a variety of documents, including paperwork showing ownership of the waste has been transferred from your client to that of the disposal site.

Background Information

The Claremont Polychemical site, hereinafter referred to as the Site, is originally a Federal and now State-managed Superfund Site located in the hamlet of Old Bethpage, New York at 505 Winding Road. The original manufacturing site occupied an approximately 9.5-acre tract of land in a light industrial zone. The active elements of the Site are now restricted to an approximately two-acre tract that hosts an operating groundwater treatment plant.

During its operational life (1966 to 1980), the Site manufactured industrial pigments for plastics and inks. Liquid wastes generated by these manufacturing activities were disposed in one of three on-site liquid waste leaching basins while solid wastes and treatment sludges were deposited in drums or in aboveground metal tanks. These on-site storage and disposal practices eventually led to spills and discharges of organic solvents that contaminated soils and groundwater in the immediate environs of the Site. Subsequent investigations of soil and groundwater resources in the area revealed the presence of organic compounds in excess of federal and/or New York State standards. Therefore, soil and groundwater remediation actions under the Federal Superfund Program were initiated at the Site in the late 1980s and continued into the 1990s.

Over the course of its operational life, the Plant has reportedly processed over a billion gallons of water from beneath the site via an on-site groundwater treatment plant (Plant), that was in full-scale operation by February of 2000. Along with the targeted solvent-contaminated waters which the Plant

.

On January 1, 2015, Integrated Environmental Management, Inc. (IEM) was acquired by Plexus Scientific Corporation. For more on the merger, go to http://www.iem-inc.com/january-1-2015-iem-merges-with-plexus-scientific.

remediates, natural radioactivity in soil is also drawn through the system. Specifically, the more soluble progeny of natural uranium and thorium are drawn through the treatment train and into the Plant's treatment tanks, which polished the water prior to its reintroduction into the aquifer using Granular Activated Carbon (GAC).

The polishing process was recently terminated, and removal of the tanks and the GAC within was required for future operation of the Plant. This required removal of the natural radioactivity -more precisely referred to as Naturally Occurring Radioactive Material or NORM - captured by the carbon filter media over several years of operation. The remainder of this report describes the operation and serves to transmit the necessary documentation.

Project Objective

The objective of this project was to remove and dispose of the NORM-bearing GAC in each of the tanks in a fashion that would minimize the potential for effluent discharges or contamination spread.² While the objective is straight-forward, the type and condition of the tanks and their contents presented a number of challenges, most of which were not identified until the on-site portion of the work began. Nonetheless, all work was completed successfully, all equipment used was released for unrestricted use.

The tanks had been inactive for several month, which allowed water retained in the GAC to slowly drain. Therefore, a secondary objective was to recover as much of the GAC as possible in a "dry" form in order to minimize water weight.³

Kickoff Activities

The on-site portion of the project began on August 10, 2015 and required eight business days to complete, including decontamination, survey and release of equipment used to transfer the GAC from the tanks to transport containers. The final shipment of containers to the disposal site took place on August 25, 2015. Once the field team was at the site, and prior to the start of work, radiation surveys were performed (see below), radiation safety training was provided for all members of the field team, and a briefing on the transfer procedures was given in order to resolve any heretofore unknown conditions.

GAC Removal Method

The GAC to be recovered had been in use since 2008. Settling and irregular displacement of this carbon media over time within the tanks was evident from initial observations through the upper man way of each vessel. It was also observed that compaction of the once loose, coarse-grained material had caused the tank contents to become moderately fused or "welded" together, making removal via the limited tank access points difficult for conventional transfer equipment. In addition, internal

² Complete removal of the carbon was required to permit subsequent dismantling of the bank bodies and associated piping for recycling (under a separate contract). Intact removal of the tanks was not considered feasible during the short project planning phase, given the structural limitations of the Plant.

³ The addition of water could bring the potential for increased disposal fees, and the risk that the material would not meet the disposal site's waste acceptance criteria.

piping system intrinsic to the design and function of the tanks also presented obstacles to the transfer process.

In order to maintain effluent releases and contamination to a practical minimum, the approach used to transfer the GAC to the transport containers that relied upon manual and suction (vacuum) techniques was implemented. Using a vacuum (Vactor) truck as the source of suction, and in-line vacuum boxes to capture and hold the recovered GAC, the media was evaluated *in situ* from the lower man way of each tank using disposable six-inch plastic vacuum hoses and miscellaneous hand tools. Removal of the underlying strata of the GAC allowed for a "gravity assist" during the removal process, which expedited the removal of material in and around the small access man ways.⁴

The preponderance of the GAC was successfully transferred via this methodology. However, some of the deposits in the western tank (i.e., the one furthest from the Plant's Control Room) were found to have been compacted to such an extent that physical removal of large "chunks" of carbon was necessary. Once removed from the tanks, the damp and compacted chunks were placed in a large tub below the man way access, size reduced, and then suctioned into a transport container.⁵

Approximately two-thirds of the GAC volume from each process tank was removed using the "dry" techniques and placed into two of the three staged transport containers. Due to the exceptional vacuum capability of the Vactor truck used, the recovered GAC in each of these boxes was well distributed inside the box; substantial voids and mounding at the suction outlet and inlet port ends of each box, respectively, were not encountered. Extra head space within each box that was accessible via the man way port on the top, dead center of each box, was used to dispose of daily PPE and other project-derived waste.

Remaining GAC in the tanks could not be removed using the "dry" techniques. These were positioned largely on the opposite sidewalls and lower conically-shaped bottom of the tanks where an extensive system of piping was situated. In order to mobilize the remaining material, high-pressure water jets were applied to break up and fluidize the GAC. All material removed via this methodology was transferred to the third transport container.

The third container was identical in design to the prior two containers, with the exception of temporary modifications installed to facilitate the removal of as much water as possible. An expendable PVC water recovery system that included a vertical standpipe and horizontal recovery line was constructed inside this container. A series of perforations in the PVC lines were created to collect water from the recovery process. These water inlet "eyes" were subsequently overlain by fine and gross filter materials to hold back GAC fines. The water recover system was then placed through the upper man way and into the center and lower interior extremes of the box. The box was

⁴ This process was performed outside of the tanks, meaning no confined space entries were required.

⁵ The size-reduction step was necessary in order to prevent clogging of the vacuum hose and subsequent air flow reductions. Nonetheless, periodic clearing and purging of the hoses were necessary to prevent deposits of loose GAC from accumulating on the corrugated walls of the vacuum hoses.

then positioned such that the vacuum inlet end of the container was lower than the opposing (exhaust) end of the container to facilitate the movement of water into the recovery system.

At the end of the project, both tanks and the piping system were repeatedly washed to ensure all assessable GAC deposits were removed. Accumulated water from the third transport container was pumped, over the course of several days using the Plant's positive displacement pump, and into the Plant's filter press system before discharge into an exterior sump for subsequent treatment. After the water removal process was complete, the filter cake was placed into a transport container, along with approximately three 55-gallon drums of staged filtercake that had been containerized by Plant personnel before the start of this project.

The field team's final assignment, at HRP's request, was to evacuate the contents of the external sump. Over time, this large sump also accumulated GAC deposits during the course of normal plant operations. The GAC and other debris recovered from the sump were deposited into a transport container.

Transport and Disposal

The GAC in each of the treatment tanks was generally well distributed between the three transport containers. Once loaded, they were inspected, surveyed and labeled. The Bills of Lading were finalized and the vehicles were released.

The containers arrived at the disposal site without incident, where the weights of the container contents was confirmed. The following is a summary of the transport and disposition:

Vac Tank ID	Date Filled	Date Shipped	Date Received at Disposal Site	Net Weight (lbs. / tons)
B8002 - Dry	8/12/15	8/12/15	8/18/15	14,780 / 7.39
V3060 - Dry	8/14/15	8/25/15	8/31/15	13,400 / 6.7
B8001 - Wet	8/18/15	8/25/15	8/31/15	29,520 / 14.67

Radiation Surveys

Pre- and post-operational radiation surveys of the work areas and box staging area were performed to ensure contamination was appropriately controlled. Likewise, pre-and post surveys of non-disposable equipment, including the Vactor trucks and hand tools used, were also performed. Finally, radiation surveys of the transport containers were also performed before they were filled with GAC. In all cases, the post-work survey results did not differ significantly from the baseline results, and all were well-below conservatively-derived release criteria promulgated by the U. S. Nuclear Regulatory Commission and subscribed to by the New York Department of Health.

Project Documentation

Detailed site operations notes and other relevant site and waste documentation have been appended to this report. These documents provide specific information on the actions taken on-site, and

associated with the transport of the waste to a permitted radioactive waste disposal facility. The following is a listing of the documents:

- Key Personnel Qualifications (Attachment A)
- Radiation Safety Training Documentation (Attachment B)
- Daily Tailgate Safety Training Forms (Attachment C)
- Instrumentation Records (Attachment D)
- Field Activity Daily Logs (Attachment E)
- Radiation Survey Records (Attachment F)
- Executed Waste Profile from the Disposal Site (Attachment G)
- Shipping Documentation (Attachment H)

Documentation of Ownership Transfer

The GAC was shipped to U. S. Ecology in Grand View, Idaho for processing and disposal. Attachment I contains the Certificate of Disposal showing that ownership of the material has been transferred from your client to U. S. Ecology. Your client will need to maintain a copy of this report, in its entirety, as proof of material disposition.

It has been our pleasure assisting HRP and its client in the disposition of the GAC from the water treatment tanks at the Claremont site. In spite of having less than one month between authorization to proceed and when HRP required the on-site effort to be complete, the radioactive waste was safely removed and disposed of without radiological impact to the Plant or personnel. We thus conclude that the project objectives were met.

If you have any questions, or if we can be of service on this or any other radiation-related matter, please don't hesitate to call me at (571) 527-1617. I look forward to speaking with you again soon.

Sincerely,

Steven J. Baker, Project Manager

cc: C. D. Berger File 8284-18A

tan Barn

ATTACHMENT A Key Personnel



Steven J Baker

Health Physics Specialist

Years of Experience

IEM: 02 Total: 35

Office Location

Alexandria, Virginia

Education

B.A. Geography, U. of So. Cal, 1980

Employment History

2015—IEM, a Plexus Company

2013-2014 - Integrated Env. Mgmt. (IEM)

2003-2012 - BMT- D&P

1994-2003 - Entech - BMT Entech

1990-1994 - Halliburton NUS/Brown & Root

1990 - Geo/Resources Consult.

1986-1990 - Greenhorn & Omara

1980-1986 - Bionetics Corp

Licenses/Registrations

N/A

Security Clearance

Secret clearance - CIA, effective 05 March, 1993. Status: Inactive.

TS/SCI w/ SBI, issued 15 June, 1987. Status: Inactive.

General Qualifications

Mr. Baker is a project manager and radiation protection specialist with over 20 years of professional experience in RCRA/CERCLA environmental site investigations, waste removal actions, and site remediation tasks. He has particular expertise in orchestrating complicated logistical tasks, developing detailed project documentation, researching and identifying historical records, and interfacing with clients and Federal/State/ Local regulatory authorities. He is also experienced in evaluating regulatory requirements, developing working relationships with clients and regulators and achieving/negotiating compromise between opposing points of view. In addition, Mr. Baker has extensive background in applying historical aerial photography as a site investigation tool.

Summary of Capabilities

- Project Management
- Task Management
- Field Investigations
- Historical Aerial Photo Analysis

RCRA Regulatory Support Services

Credentials

- 40-hour Hazardous Waste Operations and Emergency Response (HAZWOPER) training (OSHA 29 CFR 1910.120), 1991
- Annual 8-hour HAZWOPER Refresher Training (OSHA 29 CFR 1910.120), 1992 2015
- Confined Space Training (OSHA 29 CFR 1910.146), 1997, 2008
- Project Management Training, 2012
- American Heart Association First Aid, CPR, and AED Training, renewed 2012
- Environmental Regulatory Audit Training, 1995
- Resource Conservation and Recovery Act (RCRA)/Superfund Industry Assistance Hotline Training (six-week training course), 1990.



Professional Experience

<u>Project Management</u> – Mr. Baker serves as a Project Manager for environmental projects and programs in support of past and present employer's federal clients. Responsible for the technical and financial performance of projects and site-specific tasks, provides oversight for field managers engaged in client work and, as necessary, participate in field activities where/when called upon. Duties also include interacting with client representatives and regulatory entities, identifying subcontractors and related support entities/activities, developing proposals, and estimating project costs in bidding environments.

Relevant Experience Example

Project Manager (PM) responsible for directing RCRA and CERCLA-associated investigations of USDA's (subsequently DHS's) Plum Island Animal Disease Center, Long Island, New York. These duties, which span a 10-year period of service, included managing long-duration RCRA and CERCLA investigation and removal projects in the field and directing field personnel and subcontractors in the successful completion of tasks at this high profile site. In a related site program, Mr. Baker served as the PM responsible for surveying structural conditions and recommending decontamination technologies for the decommissioning of a long abandoned Biological Safety Level -3 (BSL-3) laboratory at PIADC known as Building 257.

<u>Task Management & Field Investigations</u> - Mr. Baker has long experience serving in a field manager capacity on a wide variety of investigative site tasks. These primarily include investigation and removal tasks at RCRA/CERCLA chemical contamination sites, assessment and removal operations in biological hazard settings, conducting radiological surveys at industrial facilities, evaluating and collecting archival documentation/records surveys for baseline project purposes. These responsibilities also typically required managing the activities of various-sized teams of field personnel, managing client requirements/expectations, and acting as liaison between client and regulatory representatives during on- and off-site oversight visits and formal data/findings review proceedings.

Relevant Experience Examples

Mr. Baker has been directly involved in conducting field investigations involving groundwater, surface and subsurface soil, and sediment media at a variety of RCRA and CERCLA sites over the course of two decades. Many of the more unusual task and field investigation events occurred at the Plum Island Animal Disease Center, New York where biological hazards and investigation campaigns required the imposition of unusual protective protocols to guard against potential biological contamination and agent release hazards/threats. More recently, Mr. Baker has been engaged in conducting radiological surveys designed to document free- release of client's real property during decommissioning projects at several mostly commercial industrial facilities.

Other relevant task and field investigation experiences include participating in initial CERCLA investigatory activities at the 6,000-acre USDA Agricultural Research Service (USDA/ARS)



Headquarters in Beltsville Maryland, serving as a mid-level field sampling team leader at a U.S. Army RCRA investigation site in Indiana, conducting compliance audits for several USDA facilities, and undertaking historical aerial imagery assessments at numerous Formally Utilized Defense Sites (FUDS) under contract to other consultants supporting US Army Corps of Engineer (USACOE) Districts.

<u>Historical Aerial Photo Analyses</u> - Mr. Baker has long experience in both the classified and unclassified environs of aerial and satellite imagery analyses. Skills and techniques developed during this period of his profession service were used, in the environmental field, to identify and delineate physical details regarding long abandoned or misidentified waste disposal units in various public and private property settings.

Relevant Experience Example

Imagery Analyst involved in hundreds of in-depth air photo interpretation studies and reviews of CERCLA "Superfund" waste disposal sites and U.S. Army installations. These studies, conducted under contract with the US Environmental Protection Agency (EPA), were based on the use and interpretation of historical aerial photographs and supplemental collateral site data. These studies were created to assist state and Federal environmental agencies in documenting and identifying past site activity found to pose a threat to human health and the environment. These reports were also used as exhibits in litigation efforts conducted by the Federal government. In subsequent years, these same skills were applied to site investigations of past and present employer's client sites where questions regarding historical waste disposal practices were uncertain or undocumented. These investigations provided extensive "baseline" information regarding site conditions and informed the development of effective field inspection and investigation programs that followed. Additional duties and responsibilities associated with these services included occasional service as an expert fact witness in litigation settings.

RCRA Regulatory Support Services - Mr. Baker served in the past as a RCRA regulatory specialist in a public outreach program sponsored by the US EPA. This program was designed to assist and educate the public and private sector individuals having responsibilities for solid waste (hazardous and non-hazardous) management and correctly applying federal regulations governing their generation, storage, and ultimate disposal. The program also served to inform members of the general public about waste issues generally and potential health and safety impacts specifically.

Relevant Experience Example

Mr. Baker served as an Information Specialist/Environmental Consultant for EPA's RCRA Superfund Industrial Assistance Hotline. This position required extensive training and independent research and reading of pertinent RCRA and CERCLA statutes and regulatory rulemakings as well as large collections of regulatory interpretive memos and policy statements in order to become proficient in understanding and conveying information to interested parties



seeking information on these environmental programs. Upon completion of the training program, duties centered on providing prompt, accurate, and factual information concerning the regulatory programs to callers of diverse backgrounds and varying degrees of regulatory knowledge. The position also required continual review of new regulatory and support data, development and maintenance of personal research/reference files, research into difficult caller questions that could not be immediately addressed over the phone, interaction with EPA's technical, legal, and policy research staff, and development and maintenance of specialty area files for the hotline's central research library



Jeffrey W. Sumlin Health Physicist

Years of Experience

Plexus: 01 Total: 35

Office Location

Columbia, Maryland

Education

AA -Nuclear Technology, U. of Phoenix, 1991

BS –Nuclear Technology/Sociology, Excelsior College, 1990

AS -Liberal Arts, Excelsior College, 1989

Naval Nuclear Power School, 1980

Employment History

2015 — Plexus Scientific Corporation

2014 – 2015 – Integrated Environmental Management

2007 - 2014 - Chicago Bridge & Iron

2006 – 2007 – Integrated Environmental Management

2004 – 2005 – Oak Ridge National Laboratory

2001 - 2004 - Sandia National Laboratory

1995 – 2001 – Pacific Northwest Laboratory

1980 - 1995 - US Navy

Licenses/Registrations

National Registry of Radiation Protection Technologists

Professional Affiliations

National Registry of Radiation Protection Technologists (RRPT)

Security Clearance

DOE Q/PSAP-inactive and US Navy Secret-inactive

General Qualifications

Mr. Sumlin has over 35 years of experience in the radiation protection field, with emphasis on decontamination, site surveillance and applied health physics. His extensive field and management experience, interpersonal skills, and technical abilities in the decontamination, decommissioning, and radiation protection fields are accompanied by excellent qualifications in project coordination, regulatory compliance, site characterization and radiological oversight and verification.

Summary of Capabilities

- Program Management
- Radiological Field Investigations
- Radiation Training
- Radiation Transport
- Instrumentation

Credentials

- Basic and Advanced Hazardous and Radioactive Waste Shipper Training, 2014
- 40-Hour OSHA HAZWOPER Training (29 CFR 1910.120), 1996
- 8-Hour OSHA Annual Refresher (29 CFR 1910.120), 2015
- Nuclear Power Training Unit (prototype), 1981

Professional Experience

Program Management.

Served as a Program Manager for numerous environmental and infrastructure programs with emphasis on decontamination, site

surveillance and applied health physics. His extensive field and management experience, interpersonal skills, and technical abilities in the decontamination, decommissioning, and radiation protection fields are accompanied by excellent qualifications in project coordination, regulatory compliance, site characterization and radiological oversight and verification.



Radiological Field Investigations

Mr. Sumlin has over 35 years of experience in the radiation protection field, with emphasis on site surveillance, applied health physics, decontamination, decommissioning, regulatory compliance, site characterization and radiological oversight and verification.

Radiation Training

Mr. Sumlin is current with his 40-Hour OSHA HAZWOPER Training and 8-Hour OSHA Annual Refresher training. His training began in 1980 with Naval Nuclear Propulsion training and continued through DOE Radiological Controls training and as an Authorized User - Maryland Department of the Environment Radioactive Materials License No. MD-31-281-01

Radiation Transport

Mr. Sumlin is trained and qualified as a Basic and Advanced Hazardous and Radioactive Waste Shipper.

Instrumentation

Mr. Sumlin is proficient in radiation detection instrument calibration, use, troubleshooting and repair.

Relevant Projects

Chicago Bridge & Iron as a Site Supervisor, Quality Assurance Inspector, Radiological Controls Supervisor and Decontamination and Demolition Supervisor. Duties include training, qualification and supervision of Radiological Workers and Radiological Controls Technicians; structure and environmental sampling, characterization, remediation and final status surveys; job planning and scheduling; radioactive and mixed waste packaging and disposal; generating and approving legal records of survey and calibration; interfacing with the EPA, DOE, NRC and DOD on radiological and safety issues. He tracked and trended the daily quality assurance performance tests of radiological field and laboratory instruments, including the custody of radioactive check sources, ensuring NIST traceability and the proper documentation necessary to certify their pedigree. Following Hurricane Sandy, he volunteered for the New York City Rapid Repairs Program where he performed quality assurance inspections on repairs to commercial property and private residences. This included initial damage assessment, verifying worker qualifications, site safety, tracking installed material, equipment operational test, final verification of completed repairs and budget tracking and analysis.

2006 – 2007 Integrated Environmental Management, Inc. as Project Manager and Senior Health Physics Technician. Duties included surveillance activities; site characterization, generating and approving legal records of survey and calibration; report preparation; cost/schedule assessment; NRC license compliance audits; MARSSIM Final Status Surveys for nuclear license termination; report preparation and briefings.

2004 – 2006 Oak Ridge National Laboratories as a Lead Senior Radiological Controls Technician. Duties included environmental remediation of abandoned radioactive injection wells; transuranic legacy waste recovery, packaging and shipment; generating and approving legal records of survey and calibration.



2001 – 2004 Sandia National Laboratories as a Senior Radiological Controls Technician supporting Decontamination and Demolition and the Radioactive and Mixed Waste Management Facility. Duties included final status survey on over 500,000 square feet of structures prior to demolition; radiological oversight during waste segregation and packaging; generating and approving legal records of survey and calibration.

1995 – 2001 Hanford Site Health Physics Department as a Senior Health Physics Technician, ALARA Coordinator, Radioactive Source Custodian, and First Line Supervisor for various DOE contractors and projects. Duties included implementing processes that resulted in a 10% reduction of personnel exposure at the Plutonium Finishing Plant, maintaining custody and control of six curies of radioactive sources; supervision of Radiation Workers and Radiological Controls Technicians at the East and West Tank Farms; generating and approving legal records of survey and calibration.

1980 – 1995 US Navy Nuclear Propulsion and Radiological Controls Program, including positions as Mechanical Operator, Engine Room Supervisor, Engineering Watch Supervisor, Radiological Controls Shift Supervisor, Duty Supply Officer, Nuclear Weapons Accident and Incident Radiological Controls Supervisor and Quality Assurance Supervisor. Duties included conducting military, professional and radiological training; nuclear propulsion plant operation and supervision; damaged nuclear weapons radiological assessment and recovery; generating and approving legal records of operating equipment logs, survey and calibration.

ATTACHMENT B
Radiation Safety Training Documentation

Signature: Will	
Today's Date: 08/10/15	
I have received a copy of the handout entitled "General Empl	oyee Training in Radiation Protection".
I agree to comply with the safety requirements contained in the	ne handout.
understand that I may contact the project Radiation Safety Of nay arise.	fficer at any time to discuss any radiation safety issue tha
will not enter any controlled access area unless escorted, or Safety Officer.	unless I have been permitted to do so by the Radiation
ndividual administering briefing: Jeffrey W. Sumlin, RRPT	
Signature:	Date: 8/19/15
Project Radiation Safety Officer: Jeffrey W. Sumlin, RRPT	
Signature:	Date: 8/19/15
roject Manager: Steven J. Baker	
4118	01.17

Name (Print): Josathan Di Napoli	
Signature: J-V-/-1	
Today's Date: 8-10-15	
-	
I have received a copy of the handout entitled "General Empl	oyee Training in Radiation Protection".
I agree to comply with the safety requirements contained in the	ne handout.
I understand that I may contact the project Radiation Safety Of may arise.	fficer at any time to discuss any radiation safety issue that
I will not enter any controlled access area unless escorted, or Safety Officer.	unless I have been permitted to do so by the Radiation
Individual administering briefing: Jeffirey W. Sumlin, RRPT	
	Date: 8/10/15
470	- ·····
Project Radiation Safety Officer: Jeffrey W. Sumlin, RRPT	
Signature:	Date: 8/10/15
1	·
Project Manager: Steven J. Baker	
III Danage	- alul.

Signature:	
Today's Date: 8/10/15	
I have received a copy of the handout entitled "General Em	ployee Training in Radiation Protection".
I agree to comply with the safety requirements contained in	the handout.
I understand that I may contact the project Radiation Safety may arise.	Officer at any time to discuss any radiation safety issue tha
I will not enter any controlled access area unless escorted, Safety Officer.	or unless I have been permitted to do so by the Radiation
Individual administering briefing: Jeffrey W. Sumlin, RRP7 Signature:	Date: 8/10/15
Project Radiation Safety Officer: Jeffrey W. Sumlin, RRPT Signature:	Date: 8/10/15
Project Manager: Steven J. Baker	

Signature:	/
Today's Date: 8 - 10 - 15	
have received a copy of the handout entitled "General Empl	loyee Training in Radiation Protection".
agree to comply with the safety requirements contained in the	he handout.
understand that I may contact the project Radiation Safety Onay arise.	fficer at any time to discuss any radiation safety issue that
will not enter any controlled access area unless escorted, or Safety Officer.	r unless I have been permitted to do so by the Radiation
ndividual administering briefing: Jeffrey W. Sumlin, RRPT	
Signature: 4	Date: Stops
roject Radiation Safety Officer: Jeffrey W. Sumlin, RRPT	
Signature: 40 2	Date: 8/19/15

ATTACHMENT C
Daily Tailgate Safety Training Forms

INTEGRATED ENVIRONMENTAL MANAGEMENT, INC. TAILGATE SAFETY MEETING DOCUMENTATION

Facility/Location:	femont w	WTP		
Date: 8-10-15	Time:	0730	Job Number: 8287 - 184	
Client Name:	3P ASSOCIAT	TES		
Address of Work Site: 505 WINDING RUAD OLD BETAPAGE, NY				
Type of Work	Removar Act	700		
Hazardous/Radioactive Materials Use		W	hustel exten (GAC	
Protective Clothing/Equipment:		ETY TOPICS PRESENTED	. 20	
Chemical Hazards:	Nowz	THE COL	_ 9)	
	ENORM			
28 8 NO. 12 CO.	ITIF			
Emergency Procedures:	7	emerginy huspital	Jen	
Hospital/Clinic:	Phone:		Paramedic Phone:	
Hospital Address 522	map			
Special Equipment:				
Other: VAC Sub m	zy decide to	wer full face	APR 25 2 option/ sofaty	
		ATTENDEES		
NAME PR	NTED		SIGNATURE	
TED SADOWSKS TR		146	3	
DAVID RICH	2		Dan 1	
Jon Di Napoli.		7-1/	Neapor 1.	
PAUL M. SULLIVAN		July 31	1	
TETER INKAU	-1	TA A	tal	
JAMES SUACIKSU	N	temes	adron	
Meeting Conducted by:	34 Sumlay	1 Steve Bauer		
2	Jun Ox	mr.		

INTEGRATED ENVIRONMENTAL MANAGEMENT, INC. TAILGATE SAFETY MEETING DOCUMENTATION

Facility/Location: CLAR	NOWT POLYCH	EMICAL STE			
Date: 8-11.15	Time:	0820	Job Number: 3284 - 18A		
Client Name: HRP A	sunts				
Address of Work Site: 50	5 WINDING T	RUAN OUT	BOTHPAGE NY		
Type of Work GAC	REMUM				
Hazardous/Radioactive Materials Used:	TENORM				
Protective Clothing/Equipment:		PICS PRESENTED			
Chemical Hazards:	CRURL D				
Radiological Hazards:	NON2				
Physical Hazards:	TENDAM				
Emergency Procedures:	5/5/F, Vzcn				
Emergency Procedures.	SEE Hospits	(mas -	911		
Hospital/Clinic:	Phone:		Paramedic Phone:		
Hospital Address					
Special Equipment: Responsibles	I pressiohen	ry or on of	when by 405 I stoff		
Other: For Max wer		TENDEES			
NAME PRINTE		IENDEES	SIGNATURE		
Ern Bann		9	3.7		
		-1	The John Street of the Street		
1. 1-					
Jan Din-rall					
Juff Dward		Tu			
Jer Kote					
Leton Transpell Published					
		1			
		111			
Meeting Conducted by:	STEVE BANN				
	STAUR WANTER	-			

INTEGRATED ENVIRONMENTAL MANAGEMENT, INC. TAILGATE SAFETY MEETING DOCUMENTATION

Facility/Location:	LARMONT POLYCH	tesmical	
Date: 8.12.15	Time: 08		Number: 8284-18A
Client Name:	HRP Association		
Address of Work Site:	505 WINDING	ROAD, OLD BETHE	AGE WY
Type of Work	GAC Removal		
Hazardous/Radioactive Materials L	JSED: HANGED : TENC	onn GAC	
Protective Clothing/Equipment:		PICS PRESENTED	
Chemical Hazards:	CRURL D	fac shields	
Radiological Hazards:	NONZ		
Physical Hazards:		1 20 m 128 115	M 200 1601 TOINS
Emergency Procedures:		un PRESSIMINS, HE	
Emorgoney (1000daros)	711 - 21	so Anopotal May	0
Hospital/Clinic:	Phone:	Par	amedic Phone:
Hospital Address	SX2 mys		
Special Equipment:	= equipmet/line/s	DIESTLAN	
Other: WDSI would, but	- ferm decules it	ATR systems, I	mitally Thought They sue sifty is one, per Fon ?
		TENDEES	Drives Lands at
	PRINTED	3121	SIGNATURE
PAUL M SULLIVAN	7.7	- Funco	
TED Sadowski	1) (7	5.7/1
E N-F		1	, NAM.
Josef June.		1,0.0	
Gim Barn			
1			
Meeting Conducted by:	Som Baun		
Signature:	Ou D	Dan	

INTEGRATED ENVIRONMENTAL MANAGEMENT, INC. TAILGATE SAFETY MEETING DOCUMENTATION

Facility/Location: CLARMONT T	DLYCHEM SITE				
Date: Approx 13th 2015 Time	: 0640 Job Number: 8284-184				
Client Name: HRP ASSUL					
Address of Work Site: 505 wording Road, as Bethoope, NY					
	from 2 process trades				
Hazardous/Radioactive Materials Used: www.					
	SAFETY TOPICS PRESENTED				
Protective Clothing/Equipment:	D				
Chemical Hazards: Nav2					
Radiological Hazards: Noam					
	ESSLET (VACIUM)				
Emergency Procedures:	Hospital man (posted)				
Hospital/Clinic: Phor	e: Paramedic Phone:				
Hospital Address SEE /4v	SPITAL MIAD				
Special Equipment:	uck system				
Other:					
	ATTENDEES				
NAME PRINTED	SIGNATURE				
Jon Did-puli	J-W;~ h				
TED SADOWSKI JR	- Charles -				
PAUL SULLVAN	PMSull				
ST3Va BANN	Ohn Dun				
Meeting Conducted by: Struct Signature:	Baun				
Signature:	Ban				

INTEGRATED ENVIRONMENTAL MANAGEMENT, INC. TAILGATE SAFETY MEETING DOCUMENTATION

0	HEMICAL SITE
Date: 8.14.15 Time: 0700	40 0
Client Name: HRP ASSUCITES	
Address of Work Site: 505 Winds	n ROAD
Type of Work GAC MONUNE /	
Hazardous/Radioactive Materials Used: hmllud 3 TENOS	
	CS PRESENTED
Protective Clothing/Equipment: L302L 1	
Radiological Hazards: NORM	
Physical Hazards: 5/7/F, V2C	- 17 - 2 h - 1 - 1/ h-
Physical Hazards: 5/7/F, V2C	min thesive, leny northous
Emergency Procedures.	tospetal man
Hospital/Clinic: Phone:	Paramedic Phone:
Hospital Address Sur m	ar ar
Hospital Address Special Equipment: Vac system	
Other:	
NAME PRINTED	NDEES CHAPTURE
	SIGNATURE
DIEM BALLY	THE SHAW
A	2016
TED SAR SIE IR	PUSUL
TED SADOWSES JR	PUSUL TO TE
	Dary 15
	Der 15
	Destry (
	Jan 15
	De Var (5
	Davy (5
	Daving (5
	Dever 1
	Devents -
	Davy (5

INTEGRATED ENVIRONMENTAL MANAGEMENT, INC. TAILGATE SAFETY MEETING DOCUMENTATION

Facility/Location: (LARman	M POWCHE	п				
Date: 8 17 - 15	Time: 07	00	Job Number:	9284-184		
Client Name: /+27	A550C.			•		
Address of Work Site: 505	MINDIND	RUMO, OLD	3000	t69, WV		
Type of Work GAC 2	zone v AZ					
Hazardous/Radioactive Materials Leed! LAM)	31) Norm					
	-	CS PRESENTED				
	Protective Clothing/Equipment: (204)					
Chemical Hazards:	***************************************	Market Assessment of the Control of				
	iorn	• / 4				
Physical Hazards: 5/7	IF, Presin	weed water				
Emergency Procedures:	911 / 1400	nited water				
Hospital/Clinic:	Phone:		Paramedic Phon	ne:		
Hospital Address	SEZ MAG	>	,			
Special Equipment: Poresame	w25hr, (12cuam 545	stems"			
Other:						
	ATTE	NDEES				
NAME PRINTED	NAME PRINTED SIGNATURE			2		
Fin Dan		DIL.C.	Arm C			
PAUL M SULLIVAN SMISUL						
TED SATOWSKI JR IN						
Jan Villigale		1~2	14-N.			
			MARKET MARKET TO THE PARTY OF T			

Meeting Conducted by:						
Signature:						

INTEGRATED ENVIRONMENTAL MANAGEMENT, INC. TAILGATE SAFETY MEETING DOCUMENTATION

Facility/Location: CLARMONT POLYC	CHON
Date: 8-18-15 Time: 0700	Job Number: 8284-18 A
Client Name: HRP ASTOCIETES	
Address of Work Site: 505 WWDWT	ROAD OLD BETHINGE NY
Type of Work GAC REmovan	,
Hazardous/Radioactive Materials Used: Haw OLAD : NOR	
	ICS PRESENTED
Protective Clothing/Equipment:	
Chemical Hazards: NWZ	
Radiological Hazards: TENUEM	N 2 1 1 2
Physical Hazards: SITIF; Aigh The	when 420; Hest Stress
Emergency Procedures: 911; #	some 420; Hest Stress
Hospital/Clinic: Phone:	Paramedic Phone:
Hospital Address SEE myAP	
Special Equipment: High pressure have, V	acum 595ters
Other:	
	INDEES CIQUATURE
PAUL on Sullivan	SIGNATURE
7 ~ 1	Jul aut
Jan DiNasuli	
JES SADOWSKI JR	Du Ban
An Dady	Chr Some
	L
Meeting Conducted by: Signature:	I I I I I I I I I I I I I I I I I I I
Signature: Sym Sam	

INTEGRATED ENVIRONMENTAL MANAGEMENT, INC. TAILGATE SAFETY MEETING DOCUMENTATION

Facility/Location:	CLAVEMOUT	POLY CHOMUS	L	
Date: 8-19-15	Time: 06	TATE OF THE PARTY	Job Number:	8284-184
Client Name: ARP	Associates			
		ROTAN OLD	BETHAYE	NY
Type of Work	GAC Romo			
Hazardous/Radioactive Materials Used: 400				
Protective Clothing/Equipment:		ICS PRESENTED		
(K-01-14/10/W) - 1 - 1	LAVAC D			
Chemical Hazards:	WOWZ			
Radiological Hazards:	TENDAM			
Physical Hazards:	ST/F, High	Pressine		
Emergency Procedures:	911 / HOSPIN	folinap		
Hospital/Clinic:	Phone:		Paramedic Pho	ne:
Hospital Address 5 32	map			
Special Equipment: VAcuum	systems			
Otner:				
NAME PRINTED	ATTE	NDEES	SIGNATUR	
San Baren		< x	Barre	-
200 115		PHGO	Jenes -	
TED SADOWSKE	77	There		
1 2.1 13	Jic	50.	1	
2-12-12		J-11 N 7-1	8	
/ · · · · · · · · · · · · · · · ·				
Meeting Conducted by:	TEVE Baun			
Signature:	Blu E	Sam		

ATTACHMENT D
Instrumentation Records



GRIFFIN INSTRUMENTS



Calibrations performed to ANSI N323A-1997 standards.

· ·				
CALIBRA1	TION CERTIFICATE FOR	12 NS	SERIAL#	121268
Owner: IEM				

Owner: I	CIVI .						
D	ATE:	10/30/14			LOCATION	G	riffin Inst
TE	ECH:	D.Steime	l		DATE LAST	CAL EXPIRES:	10/14/14
Re	eason For (Calibration:		Due Fo	or Calibration	Repair (See	Remarks)
					(See Remarks)		air (See Remarks)
			NIST TRACE	ABLE EQUI	IPMENT USED D	URING CALIBRATION	
	IODEL: IODEL:	M-500		ERIAL #: ERIAL #:	134715	CAL. DUE: 11 CAL DUE:	/26/14
✓ Fast/SI	low Switch	working pro	perly 💽	✓ Audio Re	sponse 🗸 (Geotropism CABLE L	ENGTH 39"
CONDIT	ΓΙΟΝ:	Worn		AF MECHA	NICAL ZERO:	0 AL MECHANIC	AL ZERO: 0
NEW B	ATTERIES:	O Y	'es 💿 N	o	BATTERY CH	ECK: Sat	
HV RAN	IGE 400 - 1	500 VOLTS			● N/A	◯ Sat ◯ Unsat	
	HV (+/-10%	.)		AS FOUNI			
		•			<u>~ 114</u>	AS LEFT HV	
	500 V:	4000 V 6-	477	500		A.F.	
	1250 V: 2000 V:	1000 V fo 1500 V fo		1245		A.F.	
				2000		A.F.	
AF INPL	IT SENSITI	VITY (mV):		35	AL INPUT SENS	SITIVITY (mV): A.F.	
		RAT	TE METE	R	Transfer Section	SCA	\LER
	<u>SCALE</u>	RATE CPM	AS FOUND	% ERROR	AS LEFT % ER	ROR AS FOUND % ERROR	AS LEFT % ERROR
	x.1 or x1	100	100	0.0%	A.F.		414
		250	250	0.0%	A.F.		
	x1 or	400 1000	400 1000	0.0%	A.F.	1.00	
	x101	2500	2500	0.0%	A.F.		
		4000	4000	0.0%	A.F.		
	x10 or	10K	10 K	0.0%	A.F.	32 3 4 5 5 6 4 5 7 5 7 5	
	x100	25K	25 K	0.0%	A.F.		
		40K	40 K	0.0%	A.F.		
	x100 or x1000	100K	100 K	0.0%	A.F.		
	1 *1000	250K	250 K	0.0%	A.F.		1012-00-00-00-00-00-00-00-00-00-00-00-00-00
	<u> </u>	400K	395 K	1.3%	A.F.		
	is :	the As Found	l Data Within	20% of the	Set Point2:	Yes No	
			- Ducu Willim	2070 07 1116		e res O No	
REMARKS:							
oes Instrum	ent Meet Fi	nal Acceptano	ce Criteria?:	Ye	s O No		
alibration S				Ye			
		or Next Calibi	ration:	10/30/1			
			-		-		
INSTRUME	NT MARRII	ED WITH	44-9		# PR131864		
Performed	Reviewed	by: ၅ g	Dreimel	[Date: 10/30/2014	Entered by:	M Initials

N. C.

GRIFFIN INSTRUMENTS



CALIBRATION CERTIFICATE FOR 4	14-9 P	ROBE # PR1:	31864 ¹³
Owner: IEM			
DATE: 10/30/14 TECH: D. Steimel	LOCATION DATE LAST	CAL EXPIRES:	Griffin Inst 10/14/14
REASON FOR C. O Due For Calibration C Repair (See Remarks)		e Remarks) O D	ue and Repair
CABLE LENGTH: 39"	INPU	T SENSITIVITY: 35m\	
NIST TRACEABLE EQUIPME	NT USED DURING	CALIBRATION	
MODEL: 2221 SERIAL #:	196059	CAL. DUE:	07/17/15
NIST TRACEABLE	SOURCES USED		
99TC470-1814 Tc99 SS 3	Activity 1,330 dpm 2,200 dpm	Assay Date 05/27/14 03/01/00	2 pi Activity 19,600 cpm 8,530 cpm
PHYSICAL CONDITION: Sat EFF. FROM LAST	CAL.: 15.04%	BKG : 56	HV 900V
AF CPM Tc99: 5450 5451 5404	AVG : 543	5.0 AF Sr90 C	PM: 2755
Tc99 4 pi EFF: 17.17%		Sr90 4 pi EFF:	31.43%
Tc99 2 pi EFF: 27.44%		Sr90 2 pi EFF:	44.95%
AL CPM Tc99:	AVG:	AL Sr90	CPM:
TC-99 4 pi EFF:		Sr90 4 pi EFF:	
Tc99 2 pi EFF:		Sr90 2 pi EFF:	
s the as found efficiency within 20% of eff. from last cal.? Saturation Test Satisfactory	?	Yes	*See Remarks
Reproducibility: Are the individual counts within 10% of t	the average?	Yes ON Yes ON	
oes the probe meet final acceptance criteria? Calibration sticker attached?		• Yes O N	
Remarks:			
DATE PROBE IS DUE FOR NEXT CALIBRATION:	10/3	0/15	
INSTRUMENT MARRIED WITH 12 NS	# 121268		
			red by:Initials

Geometry: Flat surface unless otherwise stated. 2 pi efficiencies italicized.

Calibrations performed to ANSI N323A-1997 standards



RSP-008, ATTACHMENT 8.17 CONTAMINATION SURVEY INSTRUMENT DAILY (QC) CHECK SHEET

GENERAL INFORMATION:	
Client Name:	HRP
Project No:	8284-18A
Meter Model No.:	12
Meter SN	121268
Probe Model No.:	44-9
Probe SN	PR131864
Detector Area (cm2):	15.51
Background Location:	High Bay
Count time (min)	1
Alpha Check Source No:	N/A
Radionuclide:	N/A
Activity (dpm):	N/A
Efficiency (c/d):	N/A
Beta Check Source No:	2398-98
Radionuclide:	Tc-99
Activity (dpm):	19200
Efficiency (c/d):	0.1717

[area = 100 for smear counter]

Date	Units	Start	of Shift Bad	ckground (a	ılpha)	Start	of Shift Ba	ckground (beta)	Daily A	verage	Source (alp		Source CI	neck (beta)	MDA ((dpm)	Entered by:	2σ Alpha Flag	2σ Beta Flag	3σ Alpha Flag	3σ Beta Flag
		1 (counts)	2 (counts)	3 (counts)	Average (cpm)	1 (counts)	2 (counts)	3 (counts)	Average (cpm)	Alpha (cpm)	Beta (cpm)	Source (counts)	Eff. (c/d)	Source (counts)	Eff. (c/d)	Alpha	Beta					
8/10/2015	cpm				#DIV/0!	40	40	40	40	#DIV/0!	40		#VALUE!	2800	0.15	#DIV/0!	1107	JWS	#VALUE!		#VALUE!	
8/11/2015	cpm				#DIV/0!	40	40	40	40	#DIV/0!	40		#VALUE!	2800	0.15	#DIV/0!	1107	JWS	#VALUE!		#VALUE!	
8/12/2015	cpm				#DIV/0!	40	40	40	40	#DIV/0!	40		#VALUE!	2800	0.15	#DIV/0!	1107	JWS	#VALUE!		#VALUE!	
8/13/2015	cpm				#DIV/0!	50	40	40	43	#DIV/0!	43		#VALUE!	2700	0.14	#DIV/0!	1152	sjb	#VALUE!		#VALUE!	



GRIFFIN INSTRUMENTS



CALIBRATION CERTIFICATE FOR

19

SERIAL#

182678

Owner: IEM

DATE:

04/23/15

LOCATION:

Griffin Inst

TECH:

E.M. Glenn

DATE LAST CAL EXPIRES:

04/14/15

REASON FOR CALIBRATION:

Due for Calibration

NIST TRACEABLE EQUIPMENT AND SOURCES USED DURING CALIBRATION

PULSER MODEL: 500

PULSER SERIAL: 114512

PULSER CAL DUE:

10/15/15

SOURCE NUMBER: 10250

ISOTOPE:

Cs137

ASSAY DATE:

02/04/15

✓ Fast/Slow Switch working properly

✓ Audio Response

✓ Geotropism

AF HV: 650V AL HV: 750V

Input Sensitivity:

34

mV.

TEMP: 67.6 BARO PRESS:

29.15"

HUMIDITY:

29%

Desired Reading		A.F.Data	A.F. % ERROR	A.L.Data	A.L. % ERROR
4 mR/hr	5000 Scale	3.55	11.3%	- 3.8	5.0%
2.5 mR/hr	5000 Scale	2.3	8.0%	2.5	0.0%
1 mR/hr	5000 Scale	0.95	5.0%	1.05	5.0%
400 uR/hr	500 Scale*	400	0.0%	400	0.0%
250 uR/hr	500 Scale*	250	0.0%	250	0.0%
100 uR/hr	500 Scale*	100	0.0%	100	0.0%
200 uR/hr	250 Scale*	200	0.0%	200	0.0%
125 uR/hr	250 Scale*	125	0.0%	125	0.0%
50 uR/hr	250 Scale*	50	0.0%	50	0.0%
40 uR/hr	50 Scale*	40	0.0%	40	0.0%
25 uR/hr	50 Scale*	25	0.0%	25	0.0%
10 uR/hr	50 Scale*	10	0.0%	10	0.0%
20 uR/hr	25 Scale*	20	0.0%	20	0.0%
12.5 uR/hr	25 Scale*	12.5	0.0%	12.5	0.0%
5 uR/hr	25 Scale*	5	0.0%	5	0.0%
CPM/uR/Hr *Pulsed Scale	178	Is the A	As Found Data Within • Yes	20% of the Set	

REMARKS:

Does Instrument Meet Final Acceptance Criteria?:

Yes

Νo

No

Calibration Sticker Attached?:

*Pulsed Scale

Yes

Date Instrument is Due For Next Calibration:

04/23/16

Performed/Reviewed by:

Date: 4/23/2015

Calibrations performed to ANSI N323A-1997 standards.





GRIFFIN INSTRUMENTS



	PROBE #	182678
LOCATIO	N:	Griffin Inst
DATE LAS	ST CAL EXPIRES:	04/14/15
demarks) pair		
NT AND STANDARDS U	SED DURING CALIF	BRATION
#: 183997	CAL. DUE:	07/03/15
137 ACTIVITY:	1.23 uCi ASSA	AY DATE: 08/12/99
eath, activity side up.		
Previous F	IV Set Point:	650 V
PM) Net CPM	Λ:]	
	AF Efficier	icy:
rom the last calibration	? 0	Yes No
102640 Aver	age: 10302	0.00
Background (CPM):	Net CPM:	
1310	87510	
1100	97660	
1260	98680	
1280	A CONTRACTOR OF THE PARTY OF TH	
De la constantina della consta	The state of the s	
The state of the s	the state of the s	
1270	101090	
NET CPM		
	Efficiency:	
101530		5.34%
101530	Emolericy.	5.34%
101530	Linciency.	5.34%
		5.34%
	lo	5.34%
● Yes ○ N		5.34%
● Yes ○ N	lo	5.34%
Yes O N Yes O N	lo	5.34%
	DATE LAS Remarks) pair NT AND STANDARDS U #: 183997 137 ACTIVITY: reath, activity side up. Previous H PM) Net CPM From the last calibration 102640 Avera age? Background (CPM): 1150 1310 1100 1260 1280 1560 1240 1370 1270	Cable Length Cabl



RSP-008, ATTACHMENT 8.16

PHOTON INSTRUMENT DAILY (QC) CHECK SHEET

GENERAL INFORMATION: Client Name	
Client Name:	HRP
Project No:	8284-18A
Meter Model No.:	19
Meter SN:	182678
Probe Model No.:	N/A
Probe SN:	N/A
Background Location:	High Bay
Check Source No:	3347
Radionuclide:	Cs-137
Activity and Date:	1uCi/

Date	Units		Start of Shift	Background		Full Shift Background	Source Check	Entered By:	2σ Flag	3σ Flag
		1	2	3	Average	Average	Response	-		
8/10/2015	uR	4	4	4	4	4	215	JWS		
8/11/2015	uR	4	4	4	4	4	220	JWS		
8/12/2015	uR	4	4	4	4	4	229	JWS		
8/13/2015	uR	4	5	5	5	5	220	SJB		
8/14/2015	uR	5	5	5	5	5	240	sjb		
8/17/2015	uR	4	5	5	5	5	240	sjb		
8/18/2015	uR	4	4	4	4	4	240	sjb		
8/19/2015	uR	4	4	5	4	4	230	sjb		
8/25/2015	uR	5	4	4	4	4	220	JWS		



GRIFFIN INSTRUMENTS



DA	IEM	01/15/15				1.00/	ATION:			Griffin Inst	
	TE:										
TE	CH:	D.Steime	l.				LAST CAL				
Re	ason For C	Calibration:			Due Fe	or Calibrat	ion		Repair (S	ee Remarks)	
					Other	(See Rema	arks)	0	Due and	Repair (See Re	emarks)
		·.	NIST TRA	CEA	BLE EQUI	PMENT US	SED DURING	CALIBRA	TION		
MC	DDEL:	M-500		SEF	RIAL #:	134715		CAL.	DUE:	12/08/15	•
		_		ſ	-				2011		•
	✓ Audio	Response	•	ا .	✓ Geotro	pism	CAL	BLE LENGT	H: 39"		
CONDITION	ı: Sa	nt 🖊	AF MECHA	NIC	AL ZERO:	0	AL	. MECHANI	CAL ZERO	o : 0	4.3
NEW BATT			Yes (CHECK;				
HV (+/-10%	6) AS FC	OUND HV	AS L	<u>EFT</u>	<u> HV</u>	WIN	DOW SETTI	NGS:	A.F.	<u>A.L.</u>	
500 V:	, .	500		A.F.		BT (3.5 mV +/- 1	mV):	3.5	4*	
1000 V:	. 1	000		A.F.		вw	(30 mV +/-3	mV):	30	A.F.	
1500 V:	1	500		A.F.		ΔT (*	120 mV +/-10) mV):	120	A.F.	
1300 ¥.	'		TE ME	arceia:		A1 \	1201110	· • /·		CALER	The second
		IVA	1 L IIIL I		\				· ·	UMLLIN	
Prons-Aren's more an				0.000.000.000		302 NO. 10 CO. 1			Germannia amboriana - crem-a		
	SCALE	RATE CPM	AS FOU	<u>ND</u>	% ERROF	R AS LEFT	% ERROR	AS FOUNI	<u> % ERR</u>	OR AS LEFT	% ERROR
	SCALE x.1 or x1	100	100	ND	0.0%	A.F.	% ERROR				% ERROR
		100 250	100 245	ND	0.0% 2.0%	A.F.	% ERROR	AS FOUNI	0.8%		% ERROR
	x.1 or x1	100 250 400	100 245 395		0.0% 2.0% 1.3%	A.F. A.F.	% ERROR				% ERROR
	x.1 or x1 x1 or	100 250 400 1000	100 245 395 1000		0.0% 2.0% 1.3% 0.0%	A.F. A.F. A.F.	% ERROR				% ERROR
	x.1 or x1	100 250 400 1000 2500	100 245 395 1000 2400		0.0% 2.0% 1.3% 0.0% 4.0%	A.F. A.F. A.F. A.F.	% ERROR				% ERROR
	x.1 or x1 x1 or x10	100 250 400 1000 2500 4000	100 245 395 1000 2400 3950		0.0% 2.0% 1.3% 0.0% 4.0% 1.3%	A.F. A.F. A.F. A.F. A.F. A.F.	% ERROR				% ERROR
	x.1 or x1 x1 or	100 250 400 1000 2500 4000 10K	100 245 395 1000 2400 3950 10	K	0.0% 2.0% 1.3% 0.0% 4.0% 1.3% 0.0%	A.F. A.F. A.F. A.F. A.F. A.F.	% ERROR				% ERROR
	x1 or x1 x1 or x10 x10 or	100 250 400 1000 2500 4000 10K 25K	100 245 395 1000 2400 3950 10 24	K	0.0% 2.0% 1.3% 0.0% 4.0% 1.3% 0.0% 4.0%	A.F. A.F. A.F. A.F. A.F. A.F. A.F. A.F.	% ERROR				% ERROR
	x1 or x1 x1 or x10 x10 or x100	100 250 400 1000 2500 4000 10K 25K 40K	100 245 395 1000 2400 3950 10 24 39.5	ккк	0.0% 2.0% 1.3% 0.0% 4.0% 1.3% 0.0% 4.0%	A.F. A.F. A.F. A.F. A.F. A.F. A.F. A.F.	% ERROR				% ERROR
	x1 or x1 x1 or x10 x10 or	100 250 400 1000 2500 4000 10K 25K	100 245 395 1000 2400 3950 10 24	K	0.0% 2.0% 1.3% 0.0% 4.0% 1.3% 0.0% 4.0%	A.F. A.F. A.F. A.F. A.F. A.F. A.F. A.F.	% ERROR				% ERROR
	x1 or x1 x1 or x10 x10 or x100 x100 or	100 250 400 1000 2500 4000 10K 25K 40K 100K	100 245 395 1000 2400 3950 10 24 39.5 100	K K K	0.0% 2.0% 1.3% 0.0% 4.0% 1.3% 0.0% 4.0% 1.3% 0.0%	A.F. A.F. A.F. A.F. A.F. A.F. A.F. A.F.	% ERROR				% ERROR
	x1 or x1 x1 or x10 x10 or x100 x100 or x1000	100 250 400 1000 2500 4000 10K 25K 40K 100K 250K	100 245 395 1000 2400 3950 10 24 39.5 100 240 395	K K K K	0.0% 2.0% 1.3% 0.0% 4.0% 1.3% 0.0% 4.0% 1.3% 0.0% 4.0%	A.F. A.F. A.F. A.F. A.F. A.F. A.F. A.F.			0.8%		% ERROR
Overload L	x1 or x1 x1 or x10 x10 or x100 x100 or x1000 Is	100 250 400 1000 2500 4000 10K 25K 40K 100K 250K 400K	100 245 395 1000 2400 3950 10 24 39.5 100 240 395 d Data With sisted / Veri	K K K K	0.0% 2.0% 1.3% 0.0% 4.0% 1.3% 0.0% 4.0% 1.3% 0.0% 4.0% 1.3% 0.0% 4.0% 1.3%	A.F. A.F. A.F. A.F. A.F. A.F. A.F. A.F.	?:	248	0.8%	6 A.F.	% ERROR
REMARKS	x1 or x1 x1 or x10 x10 or x100 x100 or x1000 Is Light:	100 250 400 1000 2500 4000 10K 25K 40K 100K 250K 400K	100 245 395 1000 2400 3950 10 24 39.5 100 240 395 d Data With sted / Verid to improve	K K K K K	0.0% 2.0% 1.3% 0.0% 4.0% 1.3% 0.0% 4.0% 1.3% 0.0% 4.0% 1.3% 20% of the	A.F. A.F. A.F. A.F. A.F. A.F. A.F. A.F.	?:		0.8%	6 A.F.	% ERROR
REMARKS	x1 or x1 x1 or x10 x10 or x100 x100 or x1000 Is ight: Adjusted E	100 250 400 1000 2500 4000 10K 25K 40K 100K 250K 400K the As Foun	100 245 395 1000 2400 3950 10 24 39.5 100 240 395 d Data Windersted / Verified to improve	K K K K K	0.0% 2.0% 1.3% 0.0% 4.0% 1.3% 0.0% 4.0% 1.3% 0.0% 4.0% 1.3% 20% of the	A.F. A.F. A.F. A.F. A.F. A.F. A.F. A.F.	r?:	248 ● Ye	0.8%	6 A.F.	% ERROR

Performed/Reviewed by:

•				
		en e		
		,		
				·
				·
				·





DATE: 01/15 ECH: D.Ste	5/15 eimel					A 10 A 10 A	ATION: E LAST C	AL EXPIRES		Griffin Ins 01/20/1	
Due For CCABLE	alibration LENGTH		RE Repair (7.47 7.17	OR CALI arks)	0 01		Remarks) IVITY: DUA		ue and R	epair
	NIST T	RACEAI	BLE EQUI	PMENT	AND STA	NDARE	S USED E	DURING CAL	IBRATIC	<u> </u>	
MODEL:	2224		SE		01/15/1	6					
	To the		<u>NIS</u>	ST TRAC	EABLE S	SOURCE	S USED				
Source Nu	Source Number 99TC470-1814				4 pi <i>4</i>	Activity		Assay	Date		2 pi Activity
99TC47					7	,330 dpi	n	05	/27/14		19,600 срі
. *	2697-00					,200 dpr			/01/00		8,530 cpi
	99TH470-1815					,052 dpr			05/14		10,930 ср
20	596-00		Pu239	To design	18	,500 dpr	n	12	02/09		9,370 срі
						· · · · · · · · · · · · · · · · · · ·		Efficienc			
ondition:	Sa	t O	Unsat			Р	u: [Th:	17.93	3% 5	Sr:
						Tc	ss: 12	.82% C14:		Tcl	Ni:
As Found (Al	F) Efficier	ıcies:				15					
HV / Vernier:	Tc-99 Sc Nic	ource Reckel (CPI			39 Sourc		Backgro	und (CPM):		ource Re ss Steel	
	A ch.	B ch.	Net Eff.	A ch.	B ch.	Net Eff.	A ch.	B ch.	A ch.	B ch.	Net Eff.
700 / N/A				3863	1.077	20.87%	2	218	7	4623	14.06%
				4	t A to B lk: <10%	1	\ Xtalk: <1%				
					18.2%	ننبك	<1%				
	<u>Pu239</u>		Гс99 Ni	Ţ	c99 ss	<u>יי</u>	<u>1-230</u>	<u>Sr90</u>		<u>C-14</u>	
				4	623	46)88	2713			
AF CPM:	3863			14.06%		16.99%		29.23%			
AF CPM: .F 4 pí eff:	3863 20.87%			14	.06%	16.	99%	29.23%]		

Note: If the as found data is within 10% of the last calibration and the B-A Xtalk is <1% and the A-B Xtalk is <10%, then the technician may N/A the plateau section and go directly to remarks.







PROBE #: PR229438

Date:

01/15/15

PLATEAU AND SET POINT DATA

HV / Vernier:		ource Re	esponse):	AND DESCRIPTION OF THE PERSON	239 So onse (THE STATE OF THE S	Backgrou	nd (CPM):	Net A to B Xtalk: <10%	B to A Xtalk: <1%
	A ch.	B ch.	Net Eff.	A ch.	B ch	Net Eff.	A ch.	B ch.		Talk Ma
625	6	1699	5.1%	2349	390	12.7%	0	105	10.8%	<1%
650	1	2699	8.2%	2970	393	16.1%	0	120	8.4%	<1%
675	3	3268	9.9%	3388	433	18.3%	91.	176	7.1%	<1%
690	5	3457	10.4%	3469	492	18.7%	1	196	7.9%	<1%
700	2	4283	13.0%	3782	705	20.4%	2	213	11.5%	<1%
AF Plateau	Web Your	C 1-4; "	15018	V 4553	The same	SENER		1416252	THE VALUE OF	NO SECTION

Alpha / Beta Bkg (cpm)

HV / Vernier

Pu-239

Tc-99 Ni

Tc-99 SS

Th-230

C-14

Sr-90

N/A

CPM:

4 pi AL Efficiencies:

2 pi AL Efficiencies:

PROBE #: PR229438

Date:

01/15/15

PLATEAU AND SET POINT DATA

HV / Vernier:	Tc-99 S	ource Re			239 So onse (Charles Control of the Control of th	Backgrou	ind (CPM):	Net A to B Xtalk: <10%	B to A Xtalk: <1%
View N	A ch.	B ch.	Net Eff.	A ch.	B ch.	Net Eff.	A ch.	B ch.		C. TARRET
625	0	1782	5.5%	706	512	3.8%	0	63	38.9%	<1%
650	3	3075	9.5%	1981	399	10.7%	. 0	96	13.3%	<1%
675	0	3576	11.0%	2421	458	13.1%	1	121	12.2%	<1%
700	3	4200	12.9%	3528	403	19.1%	2	147	6.8%	<1%
725	4	5198	16.0%	3699	556	20.0%	1	184	9.1%	<1%
AL Plateau	10 Co 6 1	Eller Co.	11111		aleya.	23/16	N. Walley	M. A. W.		700000

Alpha / Beta Bkg (c)	om) 1 184			
HV / Vernier	Pu-239 Tc-99 Ni	Tc-99 SS Th-230	<u>C-14</u>	<u>Sr-90</u>
725 / N/A CPM:	3699	5198 3940		2811
4 pi AL Efficiencies:	19.99%	16.00% 16.38%		30.78%
2 pi AL Efficiencies:	39.47%	25.58% 36.04%		44.02%







REMARKS: A.F. high alpha to beta crosstalk. Replaced	d ditry	mylar.	Γried to	platea	u. Replace	d scint	illator.			
Does Instrument Meet Final Acceptance Criteria?:	•	Yes		No						
Calibration Sticker Attached?:	•	Yes	0	No						
Date Instrument is Due For Next Calibration.	01/1	15/16								
INSTRUMENT MARRIED WITH 2224		#1	19791							
Performed/Reviewed by: D. Steimel		Date	: 1/15/2	015			Entere	d by: <u>\(\)</u>	2 (_Initials

					MA, All Page	
	V. C.					
W. Marie						
			334	Single		

RSP-008, ATTACHMENT 8.17 CONTAMINATION SURVEY INSTRUMENT DAILY (QC) CHECK SHEET

GENERAL INFORMATION:	
Client Name:	HRP
Project No:	8284-18A
Meter Model No.:	2224
Meter SN	119791
Probe Model No.:	43-93
Probe SN	PR229438
Detector Area (cm2):	100
Background Location:	High Bay
Count time (min)	1
Alpha Check Source No:	2400-98
Radionuclide:	Th-230
Activity (dpm):	12700
Efficiency (c/d):	0.1699
Beta Check Source No:	2398-98
Radionuclide:	Tc-99
Activity (dpm):	19200
Efficiency (c/d):	0.1406

[area = 100 for smear counter]

Date	Units	Start	of Shift Bad	kground (a	ilpha)	Start of Shift Background (beta)			Daily A	verage	Source (alp	Check oha)	Source Ch	neck (beta)			Entered by:	2σ Alpha Flag	2σ Beta Flag	3σ Alpha Flag	3σ Beta Flag	
		1 (counts)	2 (counts)	3 (counts)	Average (cpm)	1 (counts)	2 (counts)	3 (counts)	Average (cpm)	Alpha (cpm)	Beta (cpm)	Source (counts)	Eff. (c/d)	Source (counts)	Eff. (c/d)	Alpha	Beta					
8/10/2015	cpm	2	1	2	2	140	171	167	159	2	159	2252	0.18	3587	0.19	38	420	JWS				
8/19/2015	cpm	0	2	1	1	175	165	180	173	1	173	2280	0.18	3425	0.18	30	438	sjb				
8/25/2015	cpm	0	1	1	1	167	170	149	162	1	162	2261	0.18	3592	0.19	25	424	JWS				





CALIBRATION CERTIFICATE FO	DR 2929 S	SERIAL# 126126
DATE: 04/22/15	LOCATION:	Griffin Inst
TECH: E.M. Glenn	DATE LAST CAL E	XPIRES: 08/14/15
Reason For Calibration:	Oue For Calibration	Repair (See Remarks)
CABLE LENGTH: 39"	Other (See Remarks)	Due and Repair (See Remarks)
NIST TRACE	ABLE EQUIPMENT USED DURING (CALIBRATION
	ERIAL #: 114512	CAL. DUE: 10/15/15
MODEL: SE	ERIAL#:	CAL DUE:
Condition: Sat Unsat	AF Mechanical Zero: AL Mechanical Zero:	0
Scaler Function Check	As Found As Le	M
Beta Channel Window (4-50 mV):	4-48 A.	
Alpha Channel Window (175 mV, 120 for 3030): 175 A.	
Alpha Counts w/Pulser @ 10,000 CPM:	10,002 A.	F. % Error: 0.0%
Beta Counts w/Pulser @ 10,000 CPM:	10,003 A.	F. % Error : 0.0%
HIGH VOLTAGE POWER SUPLY CAL. (292	.9 only)	
1 KV Reading (R-5 on HV Board):	1 A.	F. (1987)
Max HV (1500 V +):	Sat Uns	sat
REMARKS: Tagged out "Count light stays on after	elapsed time". No problem found.	
Does Instrument Meet Final Acceptance Criteria?:	Yes No	
Calibration Sticker Attached?:	Yes No	
Date Instrument is Due For Next Calibration:	04/22/16	
INSTRUMENT MARRIED WITH 43-1		
Performed/Reviewed by: & My Glave	Date: 4/22/2015	Entered by:Initials





DATE: 04/2 FECH: E.M.	2/15 Glenn						ATION: E LAST (CAL EXF	PIRES		08/14/1		
O Due For C	alibration	0	Re Repair (OR CALIE	-	N: her (See	Remark	(s)	O Du	e and R	epair	
CABLE	LENGTH	: 39"				INPUT	SENSI	TIVITY:	dual	Table 1	despire.		
	11/2436	RACEA	19-19-140	A STANSON A	AND STAI		The First	001000		BRATIO			
MODEL:	2929		West France	RIAL#:	EARLE O	12612		CAL.	DUE:		04/22/1	Ь	
			3 1 1 1 Y	STIRAC	EABLE S	Jo 8 Blue	SUSED						
Source Nu	A SECTION AND		Isotope		4 pi A			B. W.	Assay	Date 15/09		2 pi Activit	
00TC47			Tc99 SS Th230		Salat and	300 dpn 672 dpn				27/14		10,800 c	
7 3 2 3 2 B	2696-00 Pu239					500 dpn				02/09		9,370 c	
ALL TOR SELECT SERVICE	2697-00 Sr90				and the second	200 dpn				01/00	19 7-3		
2	2697-00 Sr90 PX-726 C14					LOO Upii					8,530 18,660		
	D. 24 19 71 11	t ()				780 dpn	n u:		cienci Th:	21/08 es from I 30.289	6	18,660 c	
Condition: As Found (A	PX-726	ncies:	C14 Unsat		48,	780 dpn Pu Tc s	ı: ss: 2	1.66%	cienci Th: C14:	es from I 30.289	6 s	18,660 c	
Condition:	● Sa F) Efficier	ncies:	Unsat	Pu-2		Pu To s	ı: ss: 2		cienci Th: C14:	es from I 30.289 Tc-99 So Stainles	Tc urce Res Steel	:: Sr: Ni: esponse (CPM):	
Condition: As Found (A	● Sa F) Efficier	ncies: ource Re	Unsat	Pu-2	239 Source onse (CPM B ch. N	Pu To s An):	ı: ss: 2	1.66% (ound (CF	cienci Th: C14:	es from I 30.289	Tc urce Res Steel B ch.	18,660 c	
Condition: As Found (A	SaF) Efficier	ource Rekel (CP	Unsatesponse M):	Pu-2 Resp A ch. 6614	239 Source onse (CPN B ch. N	Pt Tc s A): et Eff. 5.75% B to A	Backgro	1.66% (CF)	C14:	Tc-99 So Stainles	Tc urce Res Steel	: Sr: Ni: esponse (CPM): Net Eff. 21.57%	
As Found (A HV / Vernier: 700 / 2.85	PX-726 Sa F) Efficien Tc-99 Sc Nic A ch.	ource Rekel (CP	Unsat	Pu-Z Resp A ch. 6614 Ne Xta	239 Source onse (CPM B ch. N 296 3 et A to B alk: <10% 3.5%	Pt Tc s A): et Eff. 5.75% B to A	Backgrown A ch. 0 X Xtalk: 11% 1-230	1.66% (OFFICE STATE STAT	Clenci Th: C14: C14: Ch. 64	Tc-99 So Stainles	urce Res Steel B ch. 3786	18,660 c	
Condition: As Found (A HV / Vernier:	PX-726 Sa F) Efficier Tc-99 Sc Nic A ch.	ource Rekel (CP	Unsatesponse M):	Pu-2 Resp A ch. 6614 Nex Xta	239 Source onse (CPN B ch. N 296 3 et A to B alk: <10%	Pt Tc s A): et Eff. 5.75% B to A Th	Backgrown A ch. 0 A Xtalk: 11%	1.66% (OFF)	C14: C14: PM): ch.	Tc-99 So Stainles	urce Res Steel B ch.	18,660 c	

Note: If the as found data is within 10% of the last calibration and the B-A Xtalk is <1% and the A-B Xtalk is <10%, then the technician may N/A the plateau section and go directly to remarks.



RSP-008, ATTACHMENT 8.17 CONTAMINATION SURVEY INSTRUMENT DAILY (QC) CHECK SHEET

GENERAL INFORMATION:	
Client Name:	HRP
Project No:	8284-18A
Meter Model No.:	2929
Meter SN	126126
Probe Model No.:	43-10-1
Probe SN	PR132238
Detector Area (cm2):	100
Background Location:	High Bay
Count time (min)	1
Alpha Check Source No:	2400-98
Radionuclide:	Th-230
Activity (dpm):	12700
Efficiency (c/d):	0.2982
Beta Check Source No:	2398-98
Radionuclide:	Tc-99
Activity (dpm):	19200
Efficiency (c/d):	0.2157

[area = 100 for smear counter]

Date	Units	Start	of Shift Bad	ckground (a	alpha)	Start of Shift Background (beta)				Daily A	verage	Source Check (alpha)		Source Ch	eck (beta)	MDA ((dpm)	Entered by:	2σ Alpha Flag	2σ Beta Flag	3σ Alpha Flag	3σ Beta Flag
		1 (counts)	2 (counts)	3 (counts)	Average (cpm)	1 (counts)	2 (counts)	3 (counts)	Average (cpm)	Alpha (cpm)	Beta (cpm)	Source (counts)	Eff. (c/d)	Source (counts)	Eff. (c/d)	Alpha	Beta					
8/10/2015	counts	1	0	2	1	43	41	44	43	1	43	4380	0.34	4689	0.24	18	144	JWS				
8/12/2015	counts	0	0	1	0	42	41	41	41	0	41	4349	0.34	4701	0.24	12	141	JWS				
8/13/2015	counts	0	0	0	0	46	40	40	42	0	42	4272	0.34	4752	0.25	3	142	sjb				
8/18/2015	counts	0	0	0	0	51	43	40	45	0	45	4424	0.35	4808	0.25	3	147	sjb				
8/19/2015	counts	0	3	0	1	41	35	52	43	1	43	4546	0.36	4946	0.26	18	144	sjb				
8/25/2015	counts	0	0	0	0	39	44	45	43	0	43	4412	0.35	4772	0.25	3	144	JWS				

ATTACHMENT E
Field Activity Daily Logs

Facility: Clarmont Polychemical Site, Old Bethpage, NY					
Date: August 10, 2015 Job/Task Number: 8284-18A					
Client Name: HRP Associates, Inc					
Address of Work Site: 505 Winding Road, Old Bethpage, NY					
Description of Work: Granulated Activated Carbon (GAC) removal from 2 Process	Tanks				
Arrived on site at (insert date and time): 0600	Departed site at (insert date and time): 1000				
DESCRIPTION OF DAILY	ACTIVITIES AND EVENTS				
0600 - Arrive onsite (Steve Baker and Jeff Sumlin) to prep for removal activities. Co contamination surveys. A total of 10 stations are established – 5 interior around the to Tanks will be placed.					
0650 - Waste Oil Solutions, Inc (WOSI) removal team arrives with their equipment. T Sadowski, Jr and Jon DiNapoli as field techs.	eam is comprised of Paul Rice, President, Paul Sullivan, Supervisor, and Ted				
0730 - Conduct GET training and discuss general tailgate safety meeting topics. Dis	cuss the project and any questions WOSI crew has about exposure issues.				
0800 to 0835 – Conduct survey of Vac truck while WOSI crew unpacks and begins set the side of the easternmost Process Tank (Tank 1). This attempt met with failure due tilted, and removed to allow access.					
oprox 0900 - Check email and find message from Triad Transporters. Vac Boxes are currently on truck in Breezewood PA. Truck will not be on the road until 0945 day! This is a MAJOR setback. Vac tanks (2) were to be delivered by 0900 today. Not physically possible for the tanks to arrive until late afternoon at the earliest. Eight telephone calls to express displeasure with the turn of events. Speak to Dick Dune (VP) and Triad Transport dispatcher about this problem. Obtain little tisfaction. Call Curtis Hamilton at USEI (he is actual contractual vehicle for IEM's transport needs). He is sympathetic with our situation and asks that I outline my sition in an email directed to him. I am asking for "damages" in the form of recovered fees/wages for an idle crew (WOSI) and lost time for the IEM team.					
00 – Dismiss WOSI crew and IEM team. WOSI will charge a ½ day rate for today. Explain situation to the HRP Assoc. PM (Ms. Jen Kotch).					
1030 – 1615 - Return to Hotel to prepare "damages/compensation letter" requested by Mr. Hamilton of USEI. Discuss issues with IEM VP as well. Receive periodic updates from Triad dispatch about progress of driver in reaching site. By 1600, IEM Team decides it is too late to report back to the site to spot the boxes (which still have not actually arrived on-site). Call dispatch to request that drop occur by 0630 tomorrow morning (Monday). This lack of timely delivery has cost us the equivalent of 6+ hours of potentially productive removal time and essentially puts us a day behind schedule.					
Unusual Occurrences (list): SNAFU with delivery of Vac Tanks. Loose remainder of day after 1000.					
Client or Regulator Activity Requests or Special Orders (list): Extensive discussions about options and situation revolving around the Vac Tank delivery problem. Fortunately, Client is understanding.					
Changes in the Project Scope (list): Latter half of Day 1 lost. No optional activities ca	an be undertaken.				
portant Decisions: Decide to call of crew at 1000 and to pursue "damages" request with the Transporter.					
portant Telephone Calls and Interactions: Inform Carol Berger, VP of issue regarding the tanks and contact subs responsible for the problem. Several telephone calls the all parties to our project ensured during the day.					
eather Conditions: Sunny, clear. Temps in the low 80s predicted					
/isitors on Site (list): □ Visitor log attached None					
chments: □ H&S Report □ Tailgate Safety Training Form □ Additional pages □ Other (specify)					
Name (print): Steve Baker, Project Manager	Signature:				
Distribution:					

Facility: Clarmont Polychemical Site, Old Bethpage, NY					
Date: August 11, 2015 Job/Task Number: 8284-18A					
Client Name: HRP Associates, Inc					
Address of Work Site: 505 Winding Road, Old Bethpage, NY					
Description of Work: Granulated Activated Carbon (GAC) removal from 2 Process	Fanks				
Arrived on site at (insert date and time): 0630	Departed site at (insert date and time): 1530				
DESCRIPTION OF DAILY	ACTIVITIES AND EVENTS				
0700 - Received two Vac Tanks from Transporter (Triad Transport) and set both tan large roll-up service door. One Vac Tank is prepared to receive "dry GAC" while the Tank B8002					
0830 - Waste Oil Solutions, Inc (WOSI) removal team prepare the suction lines, coupling	ing, secondary containment, decon line, and tools needed to begin the removal work.				
0930 - Once prepared, work began in loosening/removing the oval manway hatch on to the dense GAC that backed the hatch. The hatch could not be shifted laterally, tilted	the side of the easternmost Process Tank (Tank 1). This attempt met with failure due ted, and removed to allow access.				
1000 - WOSI crew turns attention to removal of accumulated filter cake stored on-site Tanks. This material is dense, wet, and very "cake-like".	. This material is located in 3 55-gallon drums that are staged near the Process				
Received visitors from New York State, one from the Department of Env. Conservation (DEC) at approx. 1100 and one from the Dept of Health (at approx. 1030) for icensing inspection. The specific individuals are identified in the Visitor Section below. DOH representative leaves the site at approximately 1300 (no issues) and the DEC at approximately 1400.					
1100 - WOSI attempts to conduct GAC removal from the tank's rooftop manway. Requires personnel to stand on ladder in order to access manway. Some material was recovered via this mode, but small size of the manway, density of the GAC, fatigue from being on a ladder, and reduced recover rates with time leads to the abandonment of this removal avenue.					
1215 – 1300 - Decision is made to take grinder with cutting wheel to the ground-leve allows enough GAC to be removed from behind manway hatch to permit its removal. and 18 inches wide), but ground level access is superior to the rooftop option.					
Continue removal ops until end of the day (1500). WOSI off-site by 1515. Plexus-IEN	M off-site by 1530.				
Unusual Occurrences (list): Much trial and error required to hit upon solution to the removal process in light of significant material packing. Nothing unusual per se.					
Client or Regulator Activity Requests or Special Orders (list): Extensive discussions a	about removal option and the possible use of water to facilitate removal.				
Changes in the Project Scope (list): No significant scope changes.					
Important Decisions: Decide to use grinding wheel to cut open lower manway door to facilitate removal of GAC from ground level. Removal from the tank's roof top manway is too difficult and poses safety risks while perched on ladders.					
mportant Telephone Calls and Interactions: Inform Carol Berger, VP of slow going and removal problems with the compacted GAC. Request consideration of the use of high pressure water to assist in breaking up the GAC for subsequent vacuum removal.					
ather Conditions: Overcast and rainy most of the day. Rain heavy at times. Temps in the low 80s					
ors on Site (list): Uvisitor log attached Mr. Ben Rund of the State Department of Environmental Conservation (DEC) and Dr. Brajesh Kothari, CHP of the NY Department of Health (DOH), Bureau of Environmental Rad Protection					
Attachments:	al pages Other (specify)				
Name (print): Steve Baker, Project Manager	Signature:				
Distribution:					

Facility: Clarmont Polychemical Site, Old Bethpage, NY					
Date: August 12, 2015 Job/Task Number: 8284-18A					
Client Name: HRP Associates, Inc					
Address of Work Site: 505 Winding Road, Old Bethpage, NY					
Description of Work: Granulated Activated Carbon (GAC) removal from 2 Process	Tanks				
Arrived on site at (insert date and time): 0630	Departed site at (insert date and time): 1700				
DESCRIPTION OF DAILY	ACTIVITIES AND EVENTS				
0630 - Arrive on-site and find that WOSI team is already here and working on the Vac Truck. Seems a computer air emissions problem has arisen. Apparently the exhaust filter goes through a "regeneration" process andit doesn't want to regenerate at this point. Truck cannot be used until the issue is resolved. Have to call in a tech to trouble shoot. In the meantime, WOSI will bring in another unit as a stand in, which is not outfitted with filter banks and discharges air directly to the atmosphere. Speak to Jeff Sumlin and Carol Berger about the use of this system. Both agree use is appropriate if we take hourly smears of the exhaust stack to ensure no emissions.					
0750 – 0810 New vac truck onsite and conduct tailgate safety meeting.					
0810 – 0945 - Begin work on GAC removal.					
0954 - WOSI team making very good progress. Have moved large amount of materia about half full. VERY good news for once.	al from the Process Tank in very short order. Check Vac Tank (B8002) and find it is				
	5 – 1230 - Back to "vaccing". During this period the service tech for the "regeneration" issue has arrived on-site. Problem has been identified – will take a while to thru, but possible we can have original truck back on line a bit later today. Also, Paul S is developing the water removal system we intend to use in the subsequent Tanks.				
1315 - Back to removals. Will continue to use the existing vac truck for the rest of the	315 - Back to removals. Will continue to use the existing vac truck for the rest of the day. Production ceases at approx. 1410				
1420 – Triad delivers 3 rd tank. WOSI crew has Tank #1 buttoned up and ready to move. Trucker picks up Tank 1 and goes into the site;s yard to drop it temporarily so the new empty (Tank 3) can be set in place. Driver is VERY slow in lining up/hooking up to tank.					
Approx 1500 - The trucker has the full box he is going to temporarily set in the yard stuck on the vehicle. Appears one of the roller grapples that holds the tank in place as it is being loaded/offloaded is stuck. Won't let the box to the ground. Retrieving a big sledge hammer at neighboring commercial facility to help break it loose. Finally get it to break free, but takes an hour or more to do.					
Approximately 1600 - WOSI team off site by 1530 latest, so IEM team is responsible for setting the new tank and ensuring the full one gets loaded again for transport off-site. Driver is VERY slow- seems to take forever to line up and set the new box. Finally get it done and move back to loading the full box. Box loaded without incident. Jeff Sumlin performs surveys, provides the manifest and other paperwork to driver. S.Baker signs for receipt of the new box. Get the driver on his way a bit before 1700.					
700 - IEM team demobs from the site. VERY long day, but the first box is off and running to Idaho.					
Unusual Occurrences (list): Have trucking issues again. This time equipment malfunction here in yard. Problem described above. Otherwise, nothing unusual per se.					
lient or Regulator Activity Requests or Special Orders (list): Nothing other than progress updates					
Changes in the Project Scope (list): No significant scope changes.					
Important Decisions: Will continue with dry removal techniques to minimize water input. Want to get original vactor truck back on-line tomorrow.					
nportant Telephone Calls and Interactions: None					
Weather Conditions: Clear, sunny, hot as day wears on. Temps in mid 80s at least.					
Visitors on Site (list): □ Visitor log attached Only Triad truck driver this day.					
Attachments: □ H&S Report □ Tailgate Safety Training Form □ Additional pages □ Other (specify)					
Name (print): Steve Baker, Project Manager	Signature:				
Distribution:					

Facility: Clarmont Polychemical Site, Old Bethpage, NY					
Date: August 13, 2015 Job/Task Number: 8284-18A					
Client Name: HRP Associates, Inc					
Address of Work Site: 505 Winding Road, Old Bethpage, NY					
Description of Work: Granulated Activated Carbon (GAC) removal from 2 Process 7	Fanks				
Arrived on site at (insert date and time): 0630 Departed site at (insert date and time): 1515					
DESCRIPTION OF DAILY	ACTIVITIES AND EVENTS				
0630 - Arrive on-site and find that WOSI team is already here. Set up on the new tar our new vac tank as soon as we can.	nk (green Baker tank – tank 3) and turn attention to Process Tank No. 2. Want to fill				
0700-0800 - WOSI cut into manway hatch and remove it altogether. Much easier p meantime.	process than prior Tank 1 experience. Conduct instrument calibrations in the				
0815-0920 - Crew reports that GAC at chest high down is very dense and a bit dammove. Will concentrate on max recovery for time and efficiency purposes.	nper than prior experience. Upper levels of GAC are said to be quite light and easy to				
0920 – Break.					
0955 - 1140 – Continue recovery work. The vacuum hose is starting to clog on a reg noted. May have to change out hose, but will see if we can make it through filling this					
1140 – 1245 - Lunch.	40 – 1245 - Lunch.				
1245 – Begin work again. Crew said to work through to 1430 when they will begin breaking down for the day.					
1300 - Place "Caution Radioactive Materials" sticker on the Baker box we are currently filling.					
1400 – Use the Model 12 GM to survey around the GAC and the WOSI personnel. Readings (in CPM) were at max of 140. Background on same instrument is about 50.					
1415 - Conduct various surveys around the work area. Around the vac tank we are seeing, on average, 50 uR/hr at 1-foot and 100 uR/hr on contact. At each of the portals to the Process Tanks (immediate area of worker activity), rates are around 120 -150 uR/hr. GAC is now no longer as voluminous right near the entrances and rates have receded to some extent. Prior reading were in the 200-250 range. Near contact reading on large masses of GAC exceed 300 uR/hr.					
1430 - Crew begins break down of system and clean-up of the site for the day. View from upper portal of the tank suggest that about 1/3 of the GAC volume was removed today. Crew suggest they will continue with dry removal method through tomorrow. The Baker vac tank (V3060) should be full by AM hours.					
1500 - Begin IEM shut down process for the day. Stow all instruments and conclude	this daily report. Off site by 1515.				
Unusual Occurrences (list): None					
Client or Regulator Activity Requests or Special Orders (list): Nothing other than progress updates					
Changes in the Project Scope (list): No significant scope changes.					
Important Decisions: Will continue with dry removal techniques to minimize water input. Want to get the new Baker tank filled by tomorrow AM.					
Important Telephone Calls and Interactions: None					
Weather Conditions: Clear, sunny, hot as day wears on. Temps in low 80s. Very nice day					
Visitors on Site (list): □ Visitor log attached None					
Attachments:					
Name (print): Steve Baker, Project Manager	Signature:				
Distribution:					

Facility: Clarmont Polychemical Site, Old Bethpage, NY	
Date : August 14, 2015	Job/Task Number: 8284-18A
Client Name: HRP Associates, Inc	
Address of Work Site: 505 Winding Road, Old Bethpage, NY	
Description of Work: Granulated Activated Carbon (GAC) removal from 2 Process	Tanks
Arrived on site at (insert date and time): 0630	Departed site at (insert date and time): 1315
DESCRIPTION OF DAILY	ACTIVITIES AND EVENTS
0630 - Arrive on-site and find that WOSI supervisor is already here and checking the tank and into the truck directly because of the volume we've already accumulated in t significant GAC "pass thru". The material is staying in the vac tank.	e vactor truck. Discuss a concern with him that the GAC may be passing thru the vac the vac tank. We check the tank on the truck and observe no evidence of any
We will continue to run "dry" for the day. If need be, we will hook up to the last vac ta	nk (the "wet" tank) to start filling it with GAC. Will start wet process come Monday.
0720 - Crew begins GAC removal activities. Also, we are compressing the work sche	edule so we can leave the site a bit early today for traffic/demob purposes.
0930 - Crew break	
1030 - Up and running again. Will be working through to 1300 today.	
1230 - Box filled, especially on gate end where inlet port is located. Reduced vacuur securing the full tank. Decision made to wait until Monday to begin wet transfers. Con	
Unusual Occurrences (list): None	
Client or Regulator Activity Requests or Special Orders (list): Nothing other than programmer of the Client of Regulator Activity Requests or Special Orders (list):	gress updates
Changes in the Project Scope (list): No significant scope changes.	
Important Decisions: Will continue with dry removal techniques to minimize water inp	out. Will fill Baker tank by COB.
Important Telephone Calls and Interactions: None	
Weather Conditions: Clear, sunny, hot as day wears on. Temps in high 80s. Heat w	vave coming for next week.
Visitors on Site (list): □ Visitor log attached None	
Attachments:	nal pages Other (specify)
Name (print): Steve Baker, Project Manager	Signature:
Distribution:	

Facility: Clarmont Polychemical Site, Old Bethpage, NY					
Date: August 17, 2015 Job/Task Number: 8284-18A					
Client Name: HRP Associates, Inc					
Address of Work Site: 505 Winding Road, Old Bethpage, NY					
Description of Work: Granulated Activated Carbon (GAC) removal from 2 Process	Tanks				
Arrived on site at (insert date and time): 0700	Departed site at (insert date and time): 1600 (WOSI – 1500)				
DESCRIPTION OF DAILY	ACTIVITIES AND EVENTS				
0700 - Arrive on-site; conduct tailgate safety meeting. Discuss day's work. Will turn water input. Volume of water we will collect could be an issue since we have not yet					
0900 - Crew well into cleaning the "far" tank. Water process seems to be speeding u	p the removal efficiency. Making very big gains this morning.				
0930 - Crew break					
1010 - Up and running again. Check vac tank during break and find that the wet GAC of a ridge right down the middle of the tank to the center of the manway (on top). Bac					
1200 - Lunch. Work has been steady and fruitful.					
1300 Back to it. Exposed piping system in the bottom of the tank creates an incum hose, pressure washer together through such a small manway port makes removal di					
1400 - Tank above the pipe system lattice is virtually clean. All remaining material in	- Tank above the pipe system lattice is virtually clean. All remaining material in the "far" tank is below the pipes. Crew continues removal ops until 1440.				
40 - Begin testing water removal system with the Plant's diaphragm pump. Will pump into tank inside building.					
	500 - Clearly something is not working right. Pump is pumping, but water is not getting to reservoir inside building. Peter T (Plant Operator) trouble shoots the system it can find no blockage or closed valve. Will attempt to re-route to the outdoor sump basin instead.				
1530 - Having set up on the exterior sump, we find that flow is weak and sporadic. Not the healthy stream of water I envisioned. The water is clear, however, which is a good sign that the pre-filter materials (stone and sock) are working. Unclear why so little water when water is clearly standing in the vac tank itself. Shut down for the day and will reconsider tomorrow.					
1600 - Finish up with Peter and discussing the issue. Leave site for hotel. WOSI crew were off-site by 1500.					
Inusual Occurrences (list): Unexpected problems with water removal system.					
lient or Regulator Activity Requests or Special Orders (list): Nothing other than progress updates					
Changes in the Project Scope (list): No significant scope changes.					
portant Decisions: Go to high pressure/low water technique to cut and remove GAC from the "far" tank.					
portant Telephone Calls and Interactions: None					
Veather Conditions: Clear, sunny, humid and VERY hot. Temps in mid 90s. Heat is on full blast!					
Visitors on Site (list):					
Attachments:	nal pages □ Other (specify)				
Name (print): Steve Baker, Project Manager	Signature:				
Distribution:					

Facility: Clarmont Polychemical Site, Old Bethpage, NY					
Date: August 18, 2015 Job/Task Number: 8284-18A					
Client Name: HRP Associates, Inc					
Address of Work Site: 505 Winding Road, Old Bethpage, NY					
Description of Work: Granulated Activated Carbon (GAC) removal from 2 Process 1	Fanks				
Arrived on site at (insert date and time): 0700	Departed site at (insert date and time): 1500				
DESCRIPTION OF DAILY	ACTIVITIES AND EVENTS				
0700 - Arrive on-site; conduct tailgate safety meeting. Discuss day's work. Will turn both tanks. Check vac tank and find it is about half filled. Water cover the entire visib					
0720 - Calibrate equipment. Will start surveying hand tools shorlly for release.					
0830 – Begin smear tests on hand tools.					
0830- Crew shows me the "far" tank. Spotless! The high pressure hose really does of the tank. Water runs clear after wash out complete. Still plenty of capacity for water					
0920 - Measure exposure in the vicinity of the work team. Rates are way down due t the lip of the manway (active "near" tank where cleaning is on-going). Rate arm's length	o removal of nearly all of the GAC. Work zone is now about 30 uR/hr and 40uR/hr at gth inside the now clean "far" tank is 15 uR/hr.				
0930 - Crew break. Have made great progress on the "near" tank in just a short while) .				
1000 - Up and running again. David Rice (Pres of WOSI) on-site (approx. 0954) to in-	spect job.				
1050 - More area surveys; Jon begins rinse down from upper hatch. Think we are ge	etting pretty close now.				
1115 - Tanks are complete. Jon does final rinse from above on both tanks. All the GAC we can possibly remove is now out of the tanks. Crew now begins hosing off remaining equipment in prep for release surveys. Will begin area clean up after lunch.					
1130 – Lunch					
1215 – Back to it. Clean up begins. Crew starts on cleaning up floor areas around tan floor and blacktop apron in front of the vac tanks follows. Take photos of exterior and					
1320 - Begin second round of equipment clearance surveys.					
1345 - Crew begins clean up of Truck #19. This truck was the back-up unit we used the back hatch of the on-board tank and finds layer of tan-colored sand with a light co Quantity of sand appeared to be less than 500 lbs. Material vacuumed into our wet ta from site at approximately 1420.	ating of GAC on top. Truck had not been cleaned prior to insertion into service.				
1425 – Inspect vac tank No. 3 (B 8001). No standing water visible at this time. Pump system is doing its job. Surface of GAC is very firm to a couple of inches below skim surface. Water is slowing being withdrawn. Discharge water is very clear in appearance.					
1440 to 1500 - Clean up my work space and put gear away for tomorrow. Finish pap	erwork and then leave site for the day.				
Unusual Occurrences (list): None to report. Water recovery system works slow, but it	s effective				
Client or Regulator Activity Requests or Special Orders (list): Nothing other than prog	gress updates				
Changes in the Project Scope (list): No significant scope changes.					
Important Decisions: Go to high pressure/high water technique to blast and remove a	Ill remaining GAC in both tanks. VERY effective.				
Important Telephone Calls and Interactions: None					
Weather Conditions: Clear, sunny, humid and VERY hot. Temps in mid 90s again to	day. Tough on crew!				
Visitors on Site (list): □ Visitor log attached None					
Attachments:	al pages □ Other (specify)				
Name (print): Steve Baker, Project Manager	Signature:				
Distribution:					

Facility: Claremont Polychemical Site, Old Bethpage, NY				
Date: August 19, 2015 Job/Task Number: 8284-18A				
Client Name: HRP Associates, Inc				
Address of Work Site: 505 Winding Road, Old Bethpage, NY				
Description of Work: Granulated Activated Carbon (GAC) removal from 2 Process	Tanks			
Arrived on site at (insert date and time): 0615 Departed site at (insert date and time): 1620				
DESCRIPTION OF DAILY	ACTIVITIES AND EVENTS			
0615 - Arrive on-site; conduct tailgate safety meeting at 0630. Trying to get a head concentrating the entire day on decon activities. Calibrate all equipment for use in su				
0710 - Crew begins flushing out the filter cake drums we emptied at the outset of the from our dewatering activities.	project. Also flush and suction out the outdoor sump into which we are placing water			
0815 - Crew completes sump sediment removal activities. Sump is very clean; were	able to remove 99% of the original sediment deposits. Plant Manager pleased.			
0830- Crew turns their attention to decon of Vac Truck #19 (back up vehicle). Begin	power washing internal workings.			
	00 - Begin post-removal survey of Tank Area footprint. Only those survey stations on the concrete surface inside the building and on the apron outside the roll up door tations 1-7) are available for survey. Stations 8 through 10 (on the blacktop) are covered by the full waste vac tanks and are inaccessible at this time. Survey takes out 45 minutes to complete (and read smears).			
1010 - Truck #19 (back up truck) has been cleaned and is ready for surveying.				
1040 - Dave Rice, Pres of WOSI on-site				
1130 – Complete survey of Truck #19. Results show alpha levels below 200 dpm. E	30 – Complete survey of Truck #19. Results show alpha levels below 200 dpm. Exposure rates around truck and inside vac tank are at background (5uR/hr).			
1200 - Truck 19 released from site and driven back to WOSI's yard.				
1310 - Crew returns to work and decon of Truck 18. Continue with cleaning until 1510.				
1415 - Dave Rice leaves the site				
510 - Begin release survey on Truck 18 and complete same by 1600. Truck is released, but alpha readings were higher across the board than seen in the pre-condition urvey. Nevertheless, all reading below the 200 dpm release criteria. Truck released to WOSI for return to their yard.				
- WOSI crew off site. SB continues with smear count evauation.				
1620 - Work complete. Gear packed and SB off-site. Jeff S will return to site on Augcontinue to pump off water from B 8001 (the wet box).	just 25 th 2015 to manage shipment of the remaining 2 vac boxes. Site Operator will			
Unusual Occurrences (list): None to report. None				
Client or Regulator Activity Requests or Special Orders (list): Nothing other than prog	gress updates			
Changes in the Project Scope (list): No significant scope changes.				
Important Decisions: None				
ortant Telephone Calls and Interactions: None				
Weather Conditions: Clear, sunny, humid and VERY hot. Temps in mid 90s again to	day.			
Visitors on Site (list): Visitor log attached David Rice, WOSI President				
Attachments:	nal pages Other (specify)			
Name (print): Steve Baker, Project Manager	Signature:			
Distribution:				

INTEGRATED ENVIRONMENTAL MANAGEMENT, INC. FIELD ACTIVITY DAILY LOG

Page <u>/ ~</u> of __/

Facility: MPP	
Date: 25 Aug 2015	Job/Task Number: \$2 \$4-18/4
Client Name: HRP ATSOCIATES	
Address of Work Site: 505 WINDING 1211, OLD 3	ETHPAGE, NY
Description of Work StuffeNG	
DESCRIPTION OF DAILY	ACTIVITIES AND EVENTS
Arrived on site at (insert date and time): בה אים ורא און איים און איים איים איים איים איים איים איים איי	
0730 - ON SITE, ONE TANK ALROADY	ON TRUCK
0800 - PERFORMING STUPPING SURJUY	
0845 . SIZUND TRUCK LUMOND, PORTURUNY	THIPING SURJEY
0900 - COMPLETING MANIFESTS	
OGIS - PORFORMING SURVEY OF MON	WHORE TANG WORE LOCATED DURING
CARBON ROMOVAC 1000 - TRUCKS DEPARTUR, OFF SITE	
1885 TRUCKS PETTICION, BIT STE	
· · · · · · · · · · · · · · · · · · ·	
	3.
Departed site at (insert date and time): 2 ל אינ ולא ולא וואסן	
Changes from Plans and Specifications, and Other Special Orders and Im	portant Decisions:
√ \ / \ /	<u>}</u>
Weather Conditions: HJ, HWW, CLEM	Important Telephone Calls and Interactions:
Personnel on Site: 5 cmc. >	
Name (print): Jather June June J	Signature: 11

ATTACHMENT F
Radiation Survey Records

INTEGRATED ENVIRONMENTAL MANAGEMENT, INC.

RADIOLOGICAL SURVEY FORM

Survey No.: HRP-01		•	
Instrument/SN: 2224/ 1/9791	Calibration Due: 1/15/16	Date: 8/10/15	Time: 0630
Instrument/SN 2929 176126	Calibration Due: 1/15/16 Calibration Due: 4/22//6	Location: TANK W	
Purpose: PRE JUB 54	PUEY		-
Survey Performed By (Signature):	. *	Survey Checked By (Signa	ature):
☑ HV OK	Level:	Grid Dimensions:	x /
Source Check OK □ µR/I	r □mR/hr □cpm □dpm	profeet	□ centimeters
A B C D E F	H I J K L M N O	P Q R S T	U V W X Y Z
2			
3			
4	i	·	
5			0
6			* 23/651
7			144 1193
8		16	
9		TAN	:
10			
11			/
12		1 150	②
3			* 7/1044
4 * 13/5	53 <u>(</u>		
5 BAN 1/48	13/816 : :	3 * /	9/726
6	* 2/96	**	0/78
7			
8		2 1117	
		0 16/467	1
** 0/85		* 0/102	
1 70			
2			·
3 4 15/		(C) # 21/313	
** 40	2 * 4 4 4	## 0/113	
5	(1)		
oles: O = LOCATIONS	1-7 = CONCR		CIE BK40: 6/222
# = 01/3 TUTAL GROS ** = 0/B JWIPE GRO	2 (1 MM COMM) 8-10 = 42641	ALT ASPHA	LT BK40: 1/261
באר יייי אווייל מואי	•		

INTEGRATED ENVIRONMENTAL MANAGEMENT, INC.

RADIOLOGICAL SURVEY FORM

VACTRICK#18

nstrument/SN: 2724 119791	Calibration Due: 1/15//6	Date: 8/10/15	Time: 0630
nstrument/SN Z924 126126	Calibration Due: 4/22/16	Location: V AZuum	TRUCK IN MIRKING LOT
	JUY VIKUUM TRUCK		X 9 AA H 1686
Survey Performed By (Signature):		Survey Checked By (Sign	nature):
Battery OK Action L	evel: NA	Grid Dimensions:	W x NA
⊋ÁIV OK ⊋Source Check OK □ μR/hr	□ mR/hr □ cpm □ dpm	□ meters □ feet	□ inches □ centimeters
A B C D IE OF G	HIJKLMN	O P Q R S T	u v w x y z
1		1. 4.	Mercy 3000
3/139	outer lip of Vec	tank in truck	(Flor
10- 2/125	Ediscent to Plos	24	•
1			
13 0/115	boon Inlet		15
///3			
14 3/20	Baphane bese		The.
14 3/127	07/11/08/2		1
15 0/133	woulded of Doll	L	(m)
13 113			Ce
1/126	Boom Rest cl	emont (dirty) 76
16	M. A M		4
1/146	8" Boom 405	2	
5 1 1			A d
F8 6/143	Ciklone Herte	h	10 400
			1
16 3/100	DRIVE SIDE FO	002	Te
79 3/120 TID 1/119	DRIVE SIDE FOR		110
TID 1/19	BALL FLOST 4	HATCH	Valor
1 / 11 / 11 /			
			() 0

Ins	trume	nt/SN:	19/	187	70	0	alibration D	ue: 4/	23/16	Date	: 8/11/	15	Time:	143	0	
Ins	trume	nt/SN	NIA	-	-10	C	alibration D	ue: 4/;	V+	Loca	tion: CA	Verson T	MNK U	200	K 1	ren
	rpose:				1.1			RE PA								
			ned By (Sig							Surv	ey Check	ed By (Sigr	ature):			
Ø.	Battery V OK Source		ck OK	1			mR/hr 🗆	cpm □ dp	m	□ n	Dimensio neters eet	ns:	x _ inch _ cent	es imeter	s	
	A	В	C, D	E	F	G H	1 , 3	K L	M N O	P	QR	s T	u v	w	×	Y
1					11	,		1					W	1 19		
2			1													
3			S III			1						-				
4					_			1						•		
5				/			1		. /			1				
6			/	1, 18			1	\					\			
7								1	/				1			
3				1		t.	1	;			NOW					
3			1	/	14,	11	(M)	1	11/1/	ľ	(1;	51				
0				-		101		/		K	Se Mic					
1			1	I			/		, (1	/:			
2				\					MILAND				-			
3			Î				V	liga	100 MP HAR							
4							1	Din	COLONIC		i					
5			1	- 1			1		- 3B2 - 5							
6						1		1	1	_		- =:1	Line			
7			1.0	1		JR.			TA	C	5,0	EVIE	w			
8			1			X						=:0		10	027	
9				, A						,		N	1	1	0-1	
0				- 3		1	1 = 1	1	1 1	()			1	
1				1				į	: \ .		0	(1		CO H	RIHA
2			- 1	1		, a		1			,		/		e p	2
3			- 4-	*		- 1					1	1		0	PUN	120
1	1		T.	- 0		-							- 1			
5			-451	- /								- 1	1	-		

INTEGRATED ENVIRONMENTAL MANAGEMENT, INC.

RADIOLOGICAL SURVEY FORM

VACTRUER # 19 Survey No .: HRP-04 Calibration Due: 4/22/2016 Time: 0800 Instrument/SN: 2929/126126 Date: 8/12/2015 Instrument/SN NA Calibration Due: NIA Location: VACUUM TRUCK EXPINUST Purpose: IN PROCESS CONTAMINATION VERIFICATION Survey Performed By (Signature): Survey Checked By (Signature): Battery OK HV OK NIA 2/4 Action Level: Grid Dimensions: x _ J/A □ inches □ meters Source Check OK □µR/hr □mR/hr □cpm □dpm □ feet □ centimeters C D N O P z BKGD = 41 CPM B CPMO 2 40 CPMB 0800 DCPMA 4 5 0900 OCPUA DCPMA 1000 46 canp 8 53CPMB 1100 3 cPMa 7 10 11 200 ICPMO: 12 13 1300 O CPMO. 14 15 1400 1 CAMO 16 17 18 19 20 21 22 23 24 25 brought to site 25 backup when # 18 Friled. Resdings Notes: taken from vacuum exprist stack

Su	rvey N	lo.:	MRP	0	5										SHIPM				
Ins	trume	nt/SN	: 292	9/	ielec		Ca	alibration E	Due: 4/22	116		Dat	e: 8/12	115	Time:	169	5		
	trume				82678			dibration D							3002	77			
	rpose:	_	SHI		_														
Su	rvey P	erforr	ned By	(Sign	nature)						8	Sur	vey Check	ed By (Si	gnature):				
Ø1	attery V OK Source	14.00	ck OK					ردہ R/hr =	//- cpm □ dpr	m .	C		Dimension meters	ons: _ אלי	v x □ inch			4	
	A	В	c .	D	E F	G	н	1.1.4	K L	M . N :	0 1	2	QR	s T	u v	w	×	Y	
1					4		2	7.5				, ,	eg BK		= 10		42	R	1
2					TA	MIK	38	200			-	1	1 /30	0	000		40	100	
3			F-		/	7	н		/	7				0	10		39		T
4				1	10				//	6				(D)	00		100	6	
5				0	0				0					@	oa		42	65	
6			J	+		-		٥	1—-Y		-1						100	14	
7		_	C	00	REN	0	-		-	- 1	-)-	1							L
В				-								-		1					
0	-			+		-	l i	-		1	-	+	- 1	1	1				
1			-	+	-	-				1 1		+			1		-	_	-
2				+							-	+			· ·			-	-
3			1	1		1		1	1.0	T		+	-						
1					/		1	1		1	BOX	1							
5			1		-/ G		(5)	1/	-	1		+		~					
			1	1	/			1	(1)	<u>(P)</u>	6	+	-	10)	4				
			()		_	70	10				0	()				
1			-	1	1	1 - 0					-								
)	_	0	3	Do	SOR			Oa	416	J.	M	1	K OUSE	MIE	CUMPICT		125	ul	HIR
)		-	_		UR BU	nen		COS	365	1-1-			V DOJE			-	7 ,4	RH	K
+	-	6		ani	4			10	446			M	K 0050'	MILE	CAS	-5	MR	IHA	
		8	λ	en	6	1	-	Ud	42B		1	-							-
1	-	9	7 - 7 -	RA		1	-	OA	408		4	1	3.		PASS		ien	-	
1		00	ر	RA	IL	- L		00	380	1 1			FWAY		n FRO	5			

INTEGRATED ENVIRONMENTAL MANAGEMENT, INC.

RADIOLOGICAL SURVEY FORM

Su	rvey l	Vo.:	HP	1P-L	<u>کا</u>								•	,						
Ins	trume	ent/SN	: 22	24/1	19791	Cali	bration D	ue:	1.	15.1	6	Da	ite: &	19.19	5 7	ime:	0	930	>	
Ins	trume	ent/SN	292	9/1	26126	Calil	bration D	ue;	4-	22-1	b	Lo	cation:	THOU	RW	URV	· 146	24		
Pu	rpose	:		P	>5T-R	m	NAL	ACTI	av	802	Ry (Car	CRRTE	swy	74LE	5 01	124)		
Sur	rvey F	erforr	med By (Si	gnature): <u> </u>	Ja	3	WIL				Su	rvey Chec	ked By (S	Signatui	re):				
es H	Battery IV OK Sourc	(ck OK		Action Lev □ µR/hr		/hr 🗆 (срт	□ dpr	- m			d Dimens meters feet	ons:	1	x inch		rs		
	А	В	Ср	E	F G	н	1 , J	к	L	м	N , O	P	Q R	S	ΤU	v	w	×	Y	z
1							,									,				
2			1																	
3				·					:		<u>.</u>		,						Α	
4														,				*	10/	13.
5			•						 		/						0			
6			/	<u> </u>				1				i					1	**	0/	43
7			/_				1	\perp			/	'								
8				1					:											
9					!						: ;		1	'		<u> </u>				
10				:						: \	· · · · ·				$\perp \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$					
11				· ·				-		· · · · · · · · · · · · · · · · · · ·			į.				~	£ 8	12	3]
12				_			/			·							3		<u>.</u>	
3			'	·*	9/200	•	· ·			<u>k</u>	1/30	7,					*	*	1/5	55
4	-	_	, (~	126	-	<u> </u>	,	@	i 1401. s	2./			*	19	127	4			
5 6				**	+ 1/1	10		;		*** (7748	·		<u>*</u> رو	* 6	/39				
7	h		1		-	\top		:			·									
8				*	11/	204				:	1		*	121	436				\top	
9						1		,			,	9	**	2/	42					
D			:	*	6 0/	44		:		:					17					
1		4									· ·									
2			;				i (i	!		···			1							
3				a	uns;			1	•	14	to	a	Djo ac	بر (ریز ا						
				8) _N 0	W OP	7			٨	ا ¹ د المار	D		1							
			i		1. 0		i	(1)) _M					i						
otes:	C) -	LOCAT	rival			, 111	14		1-7	7 core	refe	/					KGI	11	,
ź	*	- 0	JB TO	TAN (G 2022	(ONEM	5)		8-1	0 112	nhh	op (N	TALL	£35101	E	*	A .	19	10
米	*	- 0	113 50	nsar	. G2058	'				-			. /	计加州	s TIM	1)	**	, U	12	D

VAC Truck #19

nstrument/SN: 2224/	126/26	Calibration Du		15)16			19-15	Time:	104	
		1G	6. 71	14/16		toauon. V	AC TRUC	14 1		
Survey Performed By (Signat	RUCK	17	200 mg	Mickey	7	rvey Checke	d By /Sign	atura):		
ourvey Performed by (Signal	Green. E	Han B	man		30	iivey Checke	d by (Sign	ature <i>j</i> .		
Battery OK HV OK Source Check OK	Action Lev		om Kdpr	n	T.	id Dimensior ⊐ meters ⊐ feet	ns:	x incl	nes itimeters	-
A B C D E	FX	B 1. J	K L	M N	0 . P	QR	s T	u v	MENTER	YZ
1 - 19-1	0/1	÷ .	MAILS	nor Ho	3		1 .		1120	
2	. 0/11	olo	I PANN V		7	111	1		177	
3 TIA-2.	2/19	74	Cyclor	on RET	MW	1	1		0/49	
4	, ,		100			10.720	2004		0	
5 119-3	1/1	66	CYCLO	WE 500	05 1	CHO! AZ	York		1/24	
6				4		,				
119-4	2/1	17	Cyllon	Z EXHA	155			1	14	
	7/1-	17		. va	1	1			1/20	
1111-0	1/2	21	CHELI	CVALV	1		1	- 1	1/3	
119-4	23/2	20	Boism	1N.L3.T			1	-	0/4	
1 119-7	1 11	0.	VAL	TAWK:	2200	1		10	1 /12	
2	4611	66	V.11 C	1 10	boug				1/43	
T19-8:	6/1	CB	VAC	TANK -	Biog	2			1/40	
T19 4 (SIB)	11		1	1 1					110	
		1000		- x - 4	*					
T9-10(SB)					-		i i			
				4				i		
	1-1-1			The state of the s			- 1			
	, i			į.	. 1	18.3	1	1		
		1.0	1			+ 6 - 1	14 y			
			-1	1	1	100	-	1		
		1 - 11 -		1	1 -	12.7		1		
	1	1	4			. 1	1			
			+	11:	10	FOR				

TAWA TRUCK #18

Survey No.:	08	
Instrument/SN: 22241	Calibration Due: 4/15/16	Date: 8-19-15 Time:
Instrument/SN 2929/126126	Calibration Due: 4/22/16	Location: VACTURE # 18
Purpose: TRuck	L#18 SNOWEY/REL345	E POST SLAVRY
Survey Performed By (Signature):	San Barn	Survey Checked By (Signature):
I HV OK	hr	Grid Dimensions: meters feet x inches centimeters
A B C D E F	G H I J K L M N O	P Q R S T U V W X Y Z
1 718	C/B	SMEATES
2		
3 T18-1. 10	/161 OWNER LIP OF VA	1C MANUK 10/44
4 T18-2.	/ 15% ADJACENT TO	1 1 1
5		
6 T/8-3 24/	189 BOOM FILEST	1/4/
7 718-4	8/145 BAGITONSE BAS	E 1418
8		1 100
9 T18-5: LV	142 707 OF BAG H	tanse 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
10 T18-6	0/14/1 Boom Real a	540 CT 9 145
11 / / /	1111 011 2 11	1/52
12 T/8 - 7 6/	144 8" Boon Ho	1 11600
13 T/B-B: 41	1153 CYCLONS H	4744
	148 DRW205 510	5 FLOOR 1/41
16 T/8-10 3	150 BALL FLORE	
17	/ ISV IBACE FLORI	3/17
18		
19		
20		
21		
22		
23		
24		
25		712 772
Notes: Sharry LOCATION OF AUGUST 10,2015.	ALL VALLES IN CPM	ONT EVALUATED IN PRZ-DPS SURVEY

Sui	vey N	o.:	HRP	09			HAN	1) .	TOC	DL.	5				PS	1			
-	trumer				16126 Ca	libration Du		22/16		Dat			3/15		_		33		
	trumer			-	Ca	libration Du	э:			Loc	ation:	(LAR	MON	T	PUL	40	HE.	m
Pui	pose:			Surve	7 50	LBAR							(HAP	45	500	•)		
Sui	vey P	erforn	ned By (Sig	natura):		Ban	~			Sur	vey Ch	ecked	By (Sig	nature):					
D/F	LV OK		- Poulat	Act	ion Level:	i00 iR/hr □ cr	Apm	n		13	Dime meters		: -A		x _ inches centir			100	25
-	A	В	C D	E F	G H	1,1	K L	M , N	· o	Р	Q	R	s T	u	v	w	x	Y	z
1	北	-	111111111111111111111111111111111111111	372m		- u			N.		ol	B							
2	11			131-13A	a-				Ž.		2/	51							
3									(1)		,		- 0						
4	12		IT Bu	in Pol	2		1.				2/	3+							
5	13		Turo	HOOK							1/	47	,						
6	14			ha Po	اله عا	CAPS					11	43	,	-					
7					1						01	-		-					
8	15		FIRE	HON	LYLLE	٠ (س	1	1			7	51			-			_	
9	TX		PIL	12. (yrila)	1		1		01	34	1	+-				-	
10	17	,	PIN	12 (hire	w/6/	call czp	· ·	1		11	50	-1	+					
12	18			NI) P	-							44							
13				zun T			×.		T.		. ,	43							
14	19			aur .		i	ř	t	1										
15	114	2	CH	ver en		1	*	5-1-	1		11	42							
16	1	1	21	reme	NIS T	DOL.	1				0/	45							
17	10			*							1		-						
18	Ti	2	:514	war.	5740	i .		15 15				60	-	-			-		_
19	5	3	0	upou					1,0		0/	39	-	-					
20	À		-			<u></u>	~	~		/	V	~	1			2	Ind	_	_
21	/	u		1- 1-1-	noe						7/	36	1	-	13	20	no		
22	1	15		hort	· And	Misua	!				11	37			7				
23	1	13	a 1	Sha	LON	done		1			1/	54							
24	-1	14	7	MA	11	加多宝	+		1			48	i						
25		1	+	1:010	A L		LY FNO	S DUGI	KD	1750	_	18/1	<						
Note	is:	1	DKB	. /	٥, ٦٩	o - Vit	V XIV	II Che	- W	e in C		ioli							

Survey No.:	209	HAW	D TOOLS	19	Pg 2	
Instrument/SN:		Calibration Do	ie:	Date:	Time: 13:	20
Instrument/SN		Calibration Du	ie:	Location:		
Purpose:						
Survey Performed By	(Signature):	Som 6	Danza	Survey Checked By	Signature):	
Battery OK HV OK Source Check OK	Action	Level: iD	Total Alice	Grid Dimensions: □ meters □ feet	x inches centimeters	HOWD
A B C	D E F G	н г. ј	K L M N	O P Q R S	T U V W X	y z
1 718	2 nd b	ose		0/51		
3 TIA .	Pylon 1			0/42		
4 120	3 dh	5k		0/40		
6 77 4	NO VOIC SY	stem		9/57		
8 5 02	Pylant	12		: 1/45		+
9	stole h	mole		0/39		
10 T 7 Y	Stedre	hommes	- : :	1/56		
12	, , ,	11_		3/		
13 7 2 5	6 +	tten !	1 1 1	3/36		
15 25 60	Border	Hose				
16 ;			-		3	
18						
20						
н						
3						
4						
5						

INTEGRATED ENVIRONMENTAL MANAGEMENT, INC.

RADIOLOGICAL SURVEY FORM

THRMUT ZWO BELD

Survey No.: HRP - 25 Mac - 01 Instrument/SN: 19/ 182678	Calibration Due: 23 ARP ZCA L	Date: 25 Mac 15 Time: 0800
Instrument/SN 2/4	Calibration Due: U, A	Location: MRP YALD
Purpose: 54,19124		(net (nep
Survey Performed By (Signature):		Survey Checked By (Signature):
□ HV.OK	vel:	Grid Dimensions:
A B C D E F G	H I J K L M N O	P Q R S T U V W X Y Z
1		
2		
3		
4		
5	L CA	5 YNR/HR
6		
7		
8		
9		2. 0 5.47
10		MRIAR CONSTACT
11		
12		
13 20,	IR/HR_S E TAX	2K
ار کا	27,427	0140
15 @ 2,00	7 E 120 10	PINR CONTECT MATTIRE 2 MOTORS
16		
17 HOMEHIR		
18 CSIFIRE 22	etes	
19		
20		
21		
22		
23		
24		
votes: TRUCK VIN IXP. MG	2424 . 224 552	

INTEGRATED ENVIRONMENTAL MANAGEMENT, INC.

RADIOLOGICAL SURVEY FORM

STIMENTSZNABUX

Sur	vey N	lo.:	RP	-24	5 12	د - ۱	ع د																			
			1: 12					Ca	librat	ion Du	e: Z	316	e ro			Da	te: Z	5 Ju	415	-	Tin	ne: (784	5		
	rumei			ر در				Ca	librat	ion Du	e:	ه بر	ļ.			1				YAR						
Pur	pose:		ブ	rul	PING																					
Sur	vey P		med B													Sui	rvey (Check	ed By	(Sign	ature):				
ΠН	attery V OK Source		eck Oh	ζ		1				- 	om	□ dpn	n				d Dim mete	ensio ers	ns: _	ر بد			يم es imeter		-	
	Α	В	С	D	E	F	G	н		J	к	L	м	N	0	Р	Q	R	S	Т	U	v	w	×	Y	z
1																		<u> </u>								
2						ļ			 	<u> </u>																
3										1								ļ								
4													 													
5						Had	HIR			2							MB									
6				,			110						,		1							İ				
7																										
8															1											
9															1									one makes one are more		
10					12	Qul	HL	,	\square	1					1											
11					10,	uRI	1HL 2722 160	المسرح	13																	
12																						,				
13					10	ייינט	2 HR		-7						-	TAN	الا									
14					c	7.	CHIR CCT								e_	- /	20	AR	/tV2	C 0.	ME	7				
15				1	ות בי	KIIK	QT.	uru									ردر	ull	tHL	e e	ىبر	TOR	5			S
16									F	•				_												
17					175	MR	INR		-+																	
18					C	البال	AE7													-						
19				10	214	148	5																			
20					-																					
21																										
22			,																							
23																										
24																										
25																								·		
Notes	-1	2m	K I LOR JIC	VIA	J		K D 7 84	13 4 159	14 X	3E ;	539 B9	652 D14	5	irb	183	છ	5									

TRIRMONT ZUO BUX

nstrument/SN: 2929/17612C	Calibration Due: 15 Tru Zul C	Date: 25/442015	Time: 0815
مه رنب strument/SN	Calibration Due: ルル	Location: TIRP YNR	0
urpose: SMIPPING			
urvey Performed By (Signature):		Survey Checked By (Sign	ature):
HV OK	rel:	Grid Dimensions:	ען א _x _ אן א _ □ inches □ centimeters
A B C D E F G	H I , J K L M N O	· :	U V W X Y
		2929 BKGD	02438
TANK	V3060		00 41B
		(2)	Oa 4-16
	10	3	0 2 406
0	(3)	(4)	CX 368
Dook or O			
		1	
		1	
6		(4)	
(5)	8		
	100		2-1-1-1
		: '	:
5 FLOOD BUMED	CX 43/5		.
C DOUR	OX 466	1 1	
(1) Rnc	10 413		;
(E) RATU	Ga 356		
(a) RMC	02 428		
(i) Ron	ch 4Th		
		: :	

STIPMENT 300 BOX

nstrument/SN: 2929/126126	Calibration Due: 73 MR 2016	Date: 25/442015 Time: OSW	
strument/SN ~,~	Calibration Due: ~) ルー	Location: HRP (IRP)	
urpose: 5rimus			
urvey Performed By (Signature):		Survey Checked By (Signature):	
110 010	vel: מאן לע □ mR/hr □ cpm □ dpm	Grid Dimensions:	
A B C D E F G	H I , J K L M , N . O	P Q R S T U V W X	Υ
		2929 NC41= 00 436	<
		6 10 41	
(a)	(4)	© 00 37	
	(3)	3 00 39	-
D00P000		@ 00 426	'
: :			
	;	1 1	
(5)	7	9	
	<u> </u>		\perp
(3) FLOORBUNAD	Un -43/5		
6 Poul	ca 468		_
7 RMC	0a 42b		
@ 2Mg	02 396		_
G R/11C	413		_
(D) RMc	Od LIB		\bot
			_
			-
s: TRUCK VIN 14KDD	49K3EJ 39C525		

Survey No.: HRP-25/rua-03			
Instrument/SN: 7724/119791	Calibration Due: 15 Jan 2016	Date: 25 126 7045	Time: 0915
Instrument/SN אין ע	Calibration Due: אובה	Location: HLP YNLY	
Purpose: CND OF JUB			
Survey Performed By (Signature):		Survey Checked By (Signa	ature):
₫ ĤΛ OK	vel:	Grid Dimensions: □ meters ✓ feet	x x
A B C D E F G	H I J K L M N O	P Q R S T	U V W X Y Z
1			
2		,	
3		,	
4			
5			(D) 1/N
6			
7			
0			
9		1 1	1:
11			(2) A)/A
2			(Z) N/A
3			
5 1 1 1	@ Hu		
		3 N/H	
6			
7			
8		(C)*/3/2(()	1
13/233		0*/3/260	1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		* * 0/43	
			:
* #294	Me no colore	@ *6/276	
3 4 c7/11 at	* * 446 (9* 9/286	** 0/44	
vies: 6 = LOLATIONS * = a/B TUTAL GLUSS * = a/B SwiPE GRUSS	(1 MM (OUDT) 8-10 ·M (2 MM (OUDT)		ONLAGTE BK49=7/216 58MR7 BKGB = 9/272

ATTACHMENT G Executed Waste Profile



US Ecology Nevada (Beatty) US Ecology Idaho (Grand View) US Ecology Texas (Robstown) US Ecology Michigan (Detroit)

800-239-3943 800-274-1516 800-242-3209 800-396-3265

A.	GENERATOR INFORMATION										
1.	Generator: See below					Billing information	n is s	ame	P.O. required for	payment	
	Facility Address:				12.E	Billing Company:	: Ple	xus Scientific Cor	poration d.b.a. Plex	us-IEM	
	laremont Polychemical site, NYS Deconservation (DEC)	epartment of	Environ	mental	13. E	Billing Address:	7130	Minstrel Way, Su	ite 215		
3.	Mailing Address: 506 Winding Re	d			14.0	City/State/Zip:	Colun	nbia, MD 21045			
4.	City/State/Zip: Old Bethpage, N	′ 11804			15. E	Billing Contact:	Shah	Naimi			
5.	Technical Contact: Steven J. Bak	er			16. F	Phone: 703-820-	3339	17.	Fax: 703-845-856	8	
6.	Phone: 571-527-1617	7. Fax:			18.6	Email: snaimi@	plexs	ci.com			
8.	Generator Status: CES	QG 🔲	sqg	LQG							
9.	EPA ID #: 816-R-05-004			10. State II	D #:						
11.	SIC Codes:										
В.	SHIPPING INFORMATION				'						
1.	US DOT Shipping name: Radio	active mate	rial, exce	epted packag	e, limit	ed quantity					
2.	Hazard Class: 7	3. UN/	NA #: 2	2910		4. Packaging (Group) :	5. RQ:		
6.	Container Type:	То	tes	Pallet		Boxes	Drum	s Other, D	escribe:		
7.	Frequency: Year	Qu	ıarterly	Mont	hly	✓ 1 time		Other, Describe :			
8.	Shipment: Size: 5		_ Q	uantity: _	2 to 6			9. Waste Im	• —	✓ No	
C.	GENERAL MATERIAL & REGU	LATORY IN	FORMA	ATION				(ij yes, complete	· Waste Import Supp	тетет	
1.	Common name for this waste:	Carbon									
2.	Process generating the material:										
W	ater treatment plant										
3.	Describe physical appearance an	d odor of t	ne waste	<u>.</u>							
l	lack particulate similar to "coffee gro										
4.	Odor of the waste:	one \square s	light [Strong	5.	Physical State:		Liquid	Sludge/Slurry	✓ Solid	
6.	Describe Color: Black				1	Liquid phases:	Ė	Single	Double Layer	Multi-la	aver
8.		ıb analysis	[✓ MSDS	1	Process/gen	erato				.,
9.	Waste Type (US Ecology Texas co	ustomers or				Industria	ıl	No	n-Industrial		
	Is the waste restricted under EP/					Yes					
11.	If LDR "Yes", is waste:	Wastew	ater	Non-wa	stewat	er Debris	(§268	.2) 12. Alt. St	andards for soil?	Yes	☐ No
13.	Is the waste RCRA hazardous wa										
	Manufacturing Plant (SIC 2800 the Operations Supplement Form and The Operations Supplement Form Supplement				ecover	y Plant (SIC 3312	2)? (If	yes, complete Ben	zene Waste	Yes	✓ No
14.		<500 ppmw			15.	Has waste bee	n trea	ated after point o	of generation?	Yes	✓ No
16.	CERCLA Regulated (Superfund) \	Vaste:	☐ Ye	es 🔽 No	17.	Butadiene was	te re	gulated by §63 Si	ubpart XX:	Yes	□ No
18.	Waste contains UHC constituent	(s) (§268.48	3), above	e a treatmen	t stand	dard, other than	thos	e for which the w	aste exhibits a	Yes	✓ No
	characteristic. (If yes, list all UHC's		_			4.6					
	Waste exempt from definition o	t "solid was	te" or "l	hazardous w	aste"	(If yes, list refer	ence	40CFR):	Yes	✓ No
_	State Waste Codes:										
21.	RCRA Waste Codes:										
22.	Source Code: _ G14 F	_	23. Fo	orm Code:	N/A	L	·	24. Managem	ent Code: H	(U	ISE only)

D.	MATERIAL COMPOSITION (use additional for	m if necessary)						
						Ran	ge total ≥ 100	%
	Constituent		Units	TCLP	Totals	Typical	Min	Max
Ra-2	226/Ra-228		pCi/g dry		✓	<500 pCi/g		
				$+$ $\overline{\Box}$				
				$+$ $\frac{1}{\Box}$				
				$+ ot \vdash$				
				$+ \vdash$				
				$\perp \perp$	Ш			
				$\top \sqcap$	П			
E.	WASTE CHARACTERISTICS							
1.		No 9. Reactive sulf	ides r	pm			Yes	✓ No
2.		No 10. Reactive cyar		pm			Yes	✓ No
3.	Organic peroxide Yes	No 11. Water/air rea		·			Yes	No
4.		No 12. Thermally un					Yes	✓ No
5.		No 13. TSCA regulate		ontrol sheet re	equired with	h shipment)	Yes	 ✓ No
6.		No 14. Medical/infe			•		Yes	✓ No
7.	<u> </u>	No 15. Radioactive (ofile Supplem	ent for Rad	dioactive Waste)	✓ Yes	□ No
8.		No		,	•	,		_
16.	Possibility of incidental liquids from transp	ortation? Yes		No				
17.	Is waste a solid using the paint filter test?	Yes (solid)	No (not	solid)				
18.	pH: (If solid, what is pH if mixed with water?)	Range <u>5</u> to <u>1</u>	O Typica	al <u>7</u>	≤	2 2 <	12.5	12.5
19.	Flash Point: NA 9 F	☐ < 140 º F						
20.	Is the waste oil bearing waste from Petrole	um Refining, Production o	r Transportatio	n practices?			Yes	✓ No
F.	GENERATOR'S CERTIFICATION							
	Yes No I certify this mater	rial may be disposed witho	out further treat	ment.				
I au	thorize US Ecology to correct inconsistencies	on the waste profile form	that impact was	e managem	ent decision	ons with my ora	al or written	
	horization. US Ecology will require re-submitt							
	t does not conform to specifications described							
	by both parties. I certify, under penalty of law ormation provided is true, accurate, represent			_			-	
	offination provided is true, accurate, represent		ii kiiowii di susp	ecteu Hazdi (us Have De	en uisciuseu, d	na that this 101	IIII Was
Prir	nt Name	Signature		Title			Date	

Revision date: 11/03/2014 Page 2



UNIFORM RADIOACTIVE WASTE ACCEPTANCE CRITERIA SUPPLEMENT

PROFILE# 37598

A. GENERATOR INFORMATIO	N			B. DISPOSAL SITE
1. Generator:	Clarmont Polyche	mical		US Ecology Idaho (complete Pgs 1 and 2)
2. Common Name of Materia	: Water treatment of	carbon with Radium		US Ecology Nevada (Complete Pg 1 only)
3. Material Description:	carbon			US Ecology Texas (Complete Pg 1 only)
C Generally Exempt Unimpo	rtant Quantities of Source M	aterial Uniformly Dispersed	Lin Soil or other Med	lia (< 0.05% by weight)
			AN CAR DI FORD	Contract to Contra
2, 10 Carl a 1 Garage 1 2 Carl		- monum (m 252)		= beth oralism and monam
		Pofinad Uranium	Thorium	Donlated Uranium + Thorium
+	≤1	+ -	≤1	+ - <1
Notes: 1, Unless otherwise noted, use parent nuclide in equations S. Refined Uranium refers to chemical forms where the equilibrium: the uranium decay chain has been disrupted.				
3. Total Uranium = U-2 4. Total Thorium = Th-	34 + U-235 + U-238. 232 + Th-228		6. Depleted Uranii	um contains U-235 at < 0.71% by weight
D. NORM other than Uranium			9.5	
1. Does the waste contain:	☑ Ra-226 / Ra-228	☐ Pb-210	□ K-40	Other(s)
2. Waste Concentration (pCi/g):	406			
Site Limits: USEI	500 / 1500 ⁽¹⁾	1500	818 ⁽⁴⁾	A SAN ALIAN AND A SAN AND
(all in pCi/g) USEN	5(2)	N/A	818(4)	
USET	30 ⁽³⁾	150	818 ⁽⁴⁾	
1. Does the waste contain: 2. Waste Concentration (pCi/g): 406 Site Limits: USEI 500 / 1500 ^[1] 1500 818 ^[4] See Site WAC or Star regulation Notes(s): 1. Limits are for Ra-226+Ra-228 combined. 500 pCi/g is for bulk loads, up to 1500 pCi/g requires sealed in the star for Ra-226 only. 3. Limits are for Ra-226 or Ra-228. See TCEQ regulations for other NORM exemptions. 4. K-40 may not be enriched beyond its natural concentration. E. NRC or Agreement State Exempted Products, Devices, or Items 1. Type of exempt item(s) or product(s) N/A No. of Items: Check if additional investation.				
. NRC or Agreement State E	empted Products, Devices, o	r Items		
2. The items are exempt under:		No. of	Items:	- many carting and a second and
Notes: 1. Material must be 2. The generator m 3. Individual package	transported in accordance with D ust provide an estimated inventor	y of activity, by isotope, for each abels as long as the maximum su		vackage does not exceed 10 mrem/hr.
F. CERTIFICATION STATEMEN	T:			
I certify that the contents of the Nuclear Regulatory Commission materials are not licensed by the David F. Bell/Seni	or an Agreement State, in acc	daho ordance with N/A		or regulated at the point of generation by the U (cite regulation or other document that confirm
	ne / Title (please print)			



UNIFORM RADIOACTIVE WASTE ACCEPTANCE CRITERIA SUPPLEMENT

PROFILE# 37598

ADDIT	IONAL RAD SUPPLEMENT QUESTIONS FOR SHIPMENTS TO US	S ECOLO	SY IDAHO ONLY					
G. P	article Accelerator Produced Radioactive Material (NARM) (U	JSEI WA	C Table C.3)					
1. W	as the waste generated in a particle accelerator?	☐ YES	☑ NO					
2. Es	imated inventory of activity, by isotope, for each container: Notes: Dose rate may not exceed 10 mrem/hr at any Containers must be at least 90% full.	point on	the package surface.					
H. N	Naterials Specifically Exempted by the NRC or NRC Agreemen	nt State	(USEI WAC Table C.4b)					
1.	Is the material approved for disposal in accordance with 20.	.2008(b)	or equivalent Agreement State re	gulation? <i>If</i>	1,00			
2	yes, provide a copy of the exemption. Has the waste been approved by the NRC or an Agreement	Ctata fo	altornative disposal in accordance	a with 100FB	Yes		No	V
2.	20.2002 or an Agreement State equivalent regulation? If yes exemption, and applicable SER/FONSI.				Yes		No	V
3.	Was the material approved for alternate disposal via a decor a copy of the license or plan.				Yes		No	7
4.	Is the material acceptable under USEI Table C.4b <u>as not licenthe Atomic Energy Act</u> ? If yes, provide documentation that the applicable section(s) below (4a – 4c):				Yes		No	7
	Exempt Material	WA	C Limit				11	
4a.	Byproduct Material (Exempt per 10CFR30.11 or equivalent)	Surr	n of all isotopes < 3,000 pCi/g					
		• D (0	U-238 * 14 decay progeny < 3, 000 pCi/ Depleted Uranium: U-238 Limit = 8 Only contains U-238, Th-234, Pa-234m, Hatural Thorium (in equil): Th-232 Th-232 * 11 decay progeny < 3, 000 pCi, this space for SOF calculations:	177 pCi/g U-235, and U-234) Limit = 272 pCi/				
4c.	Special Nuclear Material (Exempt per 10CFR 70.17)	Sum	of all isotopes < 3,000 pCi/g					
	Is Ecology Idaho use only: of the USEI WAC Tables apply to this profile? (Check all that Table C.1 - Unimportant Quantities of Source Made Media Table C.2 - NORM other than Uranium and Thorium Media Table C.3 - Particle Accelerator Produced Radioact	erial Uni	rmly Dispersed in Soil or Other	Waste Type (CTIVE N	ON-FUS	RAP	
	Table C.4a - NRC Exempted Products, Devices, or I Table C.4b - Materials Specifically Exempted by the		C or an NRC Agreement State					

ATTACHMENT H Shipping Documentation

UNIF		RM STRAIGHT BILL OF LADING Original — Not Negotiable	4644	129		918-426 IT: Y		-364-1139 FAX: 9 O EPA ID#: OK		
TR	RIA	AD TRANSPORT, INC. P. O. Box 818 — McAlester, OK 74502			0. 1.			TRUCK #: 132	39	
P. O. #_		P. O. Box 818 — McAlester, OK 74502 MANF#: 324-18A LOA	AD #: 13	2053	5 PRO#	:		TRAILER #: 26/	//	
ORIGII	N: ,	M15641					4052	,		
SHIPP	ER	CLAREMONT Poly Chem	icA/	CONSIG	7	r -	ECO.	1000		
		506 winding Rd.	11 1	STREET	1	78)]		
CY/ST		- 1 1 n - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				ndvi	iew	In ZIP		
NO	-	KIND OF PACKAGES			To come			Subject to Section 7 of	of Conditi	ions of
NO. SHIPPING UNITS	H	DESCRIPTION OF ARTICLES (IF HAZARDOUS MATERIALS - PROPER SHIPPING NAME)	HAZARD CLASS	I. D. NUMBER	PACKING GROUP	OF CONTAINER	WEIGHT SUBJECT TO CORRECTION	Applicable Bill of Ladi	ng, if this	s ship-
/		13A-						without recourse on the consignor shall sign the	e consign	or, the
/		2012	-					ment:	lollowing	state-
_								The carrier shall not not this shipment without		
		01/ 1/15						freight and all other law		
		Pull one Loaded Box								
		#B-8002						(Signa	iture of Con	nsignor)
								Where the applicable specify a limitation of the	the real team of the later of	
						_	×	(NMFC Item 172), if there	e is no rele	ase or
								value declaration by the shipper does not decl		
NOTE-	-To c	ent moves between two ports by a carrier by water, the law requires obtain greater coverage for this shipment in excess of that afforded	by the carrie	r's tariff, in additio	n to the requ			release the carrier's liab shall be limited to the ex		
coverag	e in	such tariff, the shipper must enter the value of the shipment and che		The second second	CH	ECK HERE	FOR	NMFC Item 172. Californ	ia intrastate	e ship-
	_	Per	VAI	LUE:	EX	CESS COV		ments must comply with I	IMFC Item	n 173.
EMERO	GEN	CY CONTACT:							YES	NO
COMMI	ENT	"S:					-	DS REQUIRED		1
	_		-				_	DS SUPPLIED BY SHIPP LACARDS	ER	-
The propert	ty rec	evived in apparent good order, except as noted (contents and condition	n of contents	of packages unkno	wn), marked,	consigned, a	nd destined as in	dicated below, which said car	rier (the wo	ord car-
rier being u otherwise to at any time	nders o deli inter	stood throughout this contract as meaning any person or corporation in ver to another carrier on the route to said destination. It is mutually ag rested in all or any of said property, that every service to be performe	n possession of greed, as to ea ed hereunder	of the property unde such carrier of all or shall be subject to	or the contract any of said pr all the terms) agrees to ca operty over a and condition	arry to its usual pla Ill or any portion on ons of the Uniform	ace of delivery at said destina f said route to destination, an Domestic Straight Bill of Lad	tion, if on its d as to eac ing set forti	s route, ch party
Shipper her	reby (Classification in effect on the date hereof, if this is a rail or a rail-wate certifies that he is familiar with all the terms and conditions of the said shipment, and the said terms and conditions are hereby agreed to by	bill of lading,	including those on	the back then	eof, set forth	in the classification	n or lawfully filed tariff which	governs the	e trans-
LINER	SF	FURNISHED BY: TRIAD CUST	OMER	/ VE	HICLEF	URNISH	IED BUT N	OT USED: YE	S	NO
		LOADING		CTION	HOLL !	OI WILL	LD DOT IN	UNLOADING		110
		DA DA	TE & AP	POINTMENT	TIME			add and a second		
		ACT	TUAL AR	RIVAL DATE	&TIME	-				
			DETENTI	ON END TIM	E					
			REI	WINDER						
		Wear P.P.E. when needed, be							JUNEAU.	
Obs	Ch	ve Loading/Unloading & Make Ad leck Compatibility of Hazardous I	ccurate Materia	Count; L	Se sure	e Mani	OMPATIE	CCUrate & Con	plete	9;
	0.	Secure and Weigh Load-Ched								
10	04	DING OF TRIAD EQUIPMENT IS	ACKN	OWLEDG	EMEN	TOF	THE ACC	EPTANCE BY	THE	
		OMER OF THE TERMS AND CON								
		nt Condition:	111	1 - 0 .				D 1	11/11/19	
Shippo Carrie			17-10	Consider Print			STARSE	Date		
The second second second		quested outside scope of Standard Ope	rating P		vario.	1200	JAME C	(0,11)		
and the same of	1111									
Perso	n F	Requesting Work: (SIGNATURE)					Y T	Date		

YELLOW - SHIPPER

PINK - CONSIGNEE

GOLDENROD - DRIVER

ORIGINAL (WHITE) - TRIAD

UNIFORM STRAIGHT BILL OF LADING TEL: 918-426-4751 800-364-1139 FAX: 918-426-2865 445292 Original — Not Negotiable SPLIT: YES NO EPA ID#: OKD981588791 TRIAD TRANSPORT, INC. P. O. Box 818 — McAlester, OK 74502 TRUCK #: /40/ P. O. # MANF#: 445292 PRO #: /320384 LOAD #: ____ TRAILER #: 240 ORIGIN: DESTINATION: SHIPPER Triad Transport Ing CONSIGNEE Clarement STREET 1484 Williams, AD Columbus, On, CY/ST KIND OF PACKAGES Subject to Section 7 of Conditions of TYPE HAZARD PACKING GROUP I. D. NUMBER SHIPPING DESCRIPTION OF ARTICLES Applicable Bill of Lading, if this ship-SUBJECT TO CORRECTION CLASS (IF HAZARDOUS MATERIALS - PROPER SHIPPING NAME) UNITS CONTAINER ment is to be delivered to the consignee without recaurse on the consignor, the consignor shall sign the following state-The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges. (Signature of Consignor) Where the applicable tariff provisions specify a limitation of the carrier's liability (NMFC Item 172), if there is no release or value declaration by the shipper, and the shipper does not declare a value or *If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight". release the carrier's liability, that liability NOTE—To obtain greater coverage for this shipment in excess of that afforded by the carrier's tariff, in addition to the requirements for obtaining excess coverage in such tariff, the shipper must enter the value of the shipment and check the box electing excess coverage. shall be limited to the extent provided by NMFC Item 172. California intrastate ship-CHECK HERE FOR ments must comply with NMFC Item 173. EXCESS COVERAGE: EMERGENCY CONTACT: YES NO COMMENTS: PLACARDS REQUIRED PLACARDS SUPPLIED BY SHIPPER The property received in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word car-The property received in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier of being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or lawfully filed tariff if this is a motor carrier shipment. Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or lawfully filed tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns. LINERS FURNISHED BY: TRIAD CUSTOMER / VEHICLE FURNISHED BUT NOT USED: YES NO LOADING **ACTION** UNLOADING DATE & APPOINTMENT TIME **ACTUAL ARRIVAL DATE & TIME** DETENTION END TIME REMINDER Wear P.P.E. when needed, be sure Trailer is Clean; Observe Facility Rules; Observe Loading/Unloading & Make Accurate Count; Be sure Manifest is Accurate & Complete; Check Compatibility of Hazardous Materials-DO NOT HAUL INCOMPATIBLE MATERIALS; Secure and Weigh Load-Check Axle Weights—DO NOT HAUL OVERWEIGHT. LOADING OF TRIAD EQUIPMENT IS ACKNOWLEDGEMENT OF THE ACCEPTANCE BY THE CUSTOMER OF THE TERMS AND CONDITIONS PROVIDED ON THE SHIPMENT CONFIRMATION. Equipment Condition: Good Carrier per Matter Date Date Print Name: Shipper per Date Work requested outside scope of Standard Operating Procedure:

ORIGINAL (WHITE) - TRIAD

Person Requesting Work: (SIGNATURE)

YELLOW - SHIPPER

PINK - CONSIGNEE

GOLDENROD - DRIVER

Date

APPROVED BY OMBI NO. 3150-0164 Carbonial burdent per exponse to control with this information collection research 45 in marks. This uniform manifest is required to the China of the provided to the Control with this information collections after the State of the China of the Chi

14780* 6701K 154166 150 81806 Driver released penching resolution Missis uN 2910, Radioactive material, excepted package-limited quantity of material, 7 Actual received 6704 K, whokeper steve Roken via energy Hostis one **S** § S IS THIS AN EXCLUSIVE USE: SHIPWENT NRC FORM 540 (01-2014) THE ! DEMINE (1-2014) ということが **ORGANIZATION** THE CONSIDER OF THE CONTRACT EVERGO CYTELEPHONE MUREH 800-510-8510 WSTT TO QUILLATED IN A WASTE TO GOOD PARY THIS SHEMENT? Fig. (Amoral 30xc1/SECOLOGY) IT US DEVELOATED A SECURIOR SECURIOR nd say add 's nai informs ont] NC XX UNIFORM LOW-LEVEL RADIOACTIVE data by 13 pursue, U.S. NUCLEAR REGULATORY COMMISSION EPA MAJOREST NUMBER 3 TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST WASTE MANIFEST SHIPPING PAPER N DOLITAGET TOTAL HRP A sec at 5 - C and TOWYP 505 Winding 1 and Old Bethpage, NY 11 04 TPANSPORT NA E CARTER OF THE TOTAL STATES
FO. Box 816
Micalester, OK 74502 CON"ACT NA NA CONTACT KRON Dick Dune / B.C. STABBL JR Lengther Water Takach C Acaba seria can can non a gramati research DHENICAL FORM Mathematical properties Ra-226 Ra-228 (410-249 Arra Code) 350-609 3044 TE SP 7 151/6 45 (1-1 d) 516-777-7242 ES GINERATOR TYPE COLLECTOR ELVO DALASHIS SPAID KUMBER PROCESSOR. Slight IDD073114654 RADYUNUGUDES US Ecology 20400 Lemley Road Grand View, ID 83624 n de le partir de la reformación en esta a acopación de espata, els pracers de reformacións de la control. Trabajos menos esta tenes en el se especia de la control de especia de la composição el aprocio el proceso de Trabajos menos de l'associación and the Commenta de la control de la control de la control de la control de Commenta de l'associación de la control de Commenta de la control de la control de Commenta de la control de la AND SOM 141 WO SAN COULD'S KONTONION TO THE RESIDENCE OF THE PROPERTY OF THE PROP ADD TOWAL BY CONATION ACTIVITY (MEG) 1.4800E+02 PAGE TO 1 PASE(8) 1 PASE(8) 1 PASE(8) Note PASE(8) S CONTRACTO Trupper \$41288 LBS; 675 FT3 /8000105 800-274-1516 Esta (Dea to the Street) THE TOTAL PITCHT Tipo Cerecera 8285-1AA-4 CONTACT (Use the number on at conscious or magnet) MANAGET NUMBER 8/18/18 31(21)3 PACKAGE OF

APPROVED BY OMB: NO. 3180-0166 Estimated burden per response to comply with this information addication requires 12.3 hours. This uniform manufact its required by MRC1s ment reporting requirements of Foderal and State Agencies for the safe transportation and disposal of low-weight waste. Send comments regarding burden estimate in the FORL, Privacy and in the PROSE, Privacy Comments and the Send Comments and the Sen

Nob 1: Container Description Codes, For containers' waste requiring disposal in approved structural overpacks the numerical code must be colored by "O". 1. Wood of C. C. S. Care rank be 1. See rank be 1. See rank be 1. See rank be 2. Natil See C. S. Care rank be 3. Lucus See C. S. Care rank be 4. Mari Domn F. J. S. S. Lucas See C. S. Care land be 5. Carelle Saw or Unc. 13. Hybridge C. See C. S. Carelle Saw or Unc. 19. Cut. Check the Hern 6. 7. For the Saw or Unc. 19. Cut. Check the Hern 6. 7. For the Saw or Unc. 19. Cut. Check the Hern 6. 8. Carelle Saw or Unc. 19. Cut. Check the Hern 6. 7. For the Saw or Unc. 19. Cut. Check the Hern 6. 8. Carelle Saw or Unc. 19. Cut. Check the Hern 6.	Sh ं ना न्यू रिखाड	ı	US BA- SA	SERV TO RED			Additional Nuclear Regulatory Commission (NRC) Requirements for Control, Transfer and		ONIC	(01-2014)
pton Codas. For co in approved structur be followed by "Op- 9. Command: 10. End United." 11. End United. 12. High Happy 13. High Happy 19. Commons.				DESCRIP- TION	CONTAINER		Regulatory	CONTAIN	W.	Oper
Codes, For containers' rowed Structural overpack control of Control co	19.1136		19.64	Sell Appropries		DISPOSE OF TAINING TASOASIO	Commissio	CONTAINER AND WASTE DESCRIPTION	WASTE MANIFEST	
	500. 2349		5000.2346		WASTE	TAINER DESC	n (NRC) R	STE DES	ANFE	TO NOC
OTE 2: Waste Descriptor OTE 2:		***************************************		RADIATION THE REPORT (INSWITE) (INSWITE)	***	MOLLOR	equirements	CRIPTION	WASTE MANIFEST	TEL BADIOACTIVE
Descriptor Co.		-	∠ → ME n;		65		for Control,		N I	TAI ON T
Age, (Charge to Indigental States)			57 <1.57.0E-Q5	O Z	SURFACE		Transfer ar			OKIMINIOSIC
Control of the second of the s			10 15 5v CT	(d) C	57			1	CONTANT	N STATES OF
NOIE 2: Waste Descriptur Codes, (Chemon to Indicatorich produzione by vol. min.) 20. Chancel 21. Control 24. 22. Code to Cod			52.8151	A PLOADATE WASTE VOLVALISHIN CONTAINER	THE COUNTY OF THE SAME	1,4800E+02	ALL NUCLIDES	19.1139	9	NET WASTE
ias (ace)			, NA	SCLUPIA ON	NO TOTAL	20	TRETTLEM	5080.2349	T	WE WAS I
			#5803H	CHEMICAL FORM CHELATING AGENT	**	NP	11.0	ACTIVITY (MBq)	U-233	
Notes: For unitally and For all southfirst and Saparian of a Calendary 68 of Floor Day 68 of High Fig. 18 of Floor Bayerne 68		, installation		IG AGENT	CHEMICAL DESCRIPTION	NP NP	70.98	N N	wen	Vinges
Sale I sett 69 Sale I sett 69 Sale I sett 69 Sale I sett 70 Ferro 7 Sale I sett 7 Ferro 7 Sale I sett 7 Sale I set			-	CHECATING	0// // 341	AL ELSTAN CYC	***	-	-	SPECIAL NUCLEAR NATION AL (GENERAL)
manufactured and second and secon		Total	Ra-226 Ra-228		25 TO 1	NP PP	-	NP	Pu	SAL (grains)
Te Petrone 17 Agus 17 Agus 18 Te	1.4500E+02	1.4600E+02	7.4000E+01 7.4000E+01	CO-TTAINER TOTAL CO-TTAINER TOTAL AND FA		NA.	(60)	NP	T-des	
find the property of the color	+02	+02	501	UCLIDES AND DR CONTAIN	And Letter Square, Colored Colored	NA	HK	4. 5	3	1
Solidification 13. Code Solidification 14. Code 15. Code 16. Code 17. Code 18.		V		MCANDRAL PADIONICALDES AND ACTIVITY (MEG) AND UCHTANCH TOTAL OR CONTAINER TOTAL ACTIVITY AND PADIONICALDE PERCENT	SCHPTON		HRP Associates - Claremont GWTP	SHIPPER NAME	3 PAGE 1 OF	8284-18A-1
Note: For polarities on much that meak displaced stability requirements, the amenic product with the stability requirements are in the 13. Code 100th (i.e. it is a series of the stability requirements are in the 13. Code 100th (i.e. it is a series of the stability requirements are in the 13. Code 100th (i.e. it is a series of the stability of t				40 % % % % % % % % % % % % % % % % % % %	CATON		Claremont GWT		F 1 PAGE(S)	18A-1

APPROVED BY OMB: NO. 3150-9165 required burden per suppose to control with dramation reliable modes. Some contracts required by NPC to most reporting requirements of Foders and Sales Agencies for in safeting reports to and control and selection for the CPA. Privacy, and information collections for the CPA. Privacy and information collections for the CPA. Privacy and in the CPA. Privacy and information of the CPA. Privacy and in the CPA. Privacy and information collections for the CPA. Privacy and in the C

NRC FORM 542 (01-2014) WINSS MIC FORM \$42 (01-2014) GENERATOR IDENTIFICATION NUMBER List all original "PROCESSED WASTE" generators (if any) before "COLLECTED WASTE" generators. UNIFORM LOW-LEVEL RADIOACTIVE WALVEST INDEX AND REGIONAL COMPACT TABULATION WASTE MANIFEST HOT ASSOCIAN - CIMPROM GWIP GENERATOR NAME OF APPLICATION OF AND TELEPHONE NUMBER U.S NUCLEAR REGULATORY COMMISSION 6 Old But page NY 11804 ROTALIST ADDATES NAME SHIPPING DATE DENTIFICATION IN JUSTER 5284-1BA HRP Associates - Claremont GWTP PREPROCESSED
WASTE
(OR MATERIAL)
YOU UM
[17] TOTALS OF ALL PAGES (NRC FORMS 542 AND 542A) \$284.184-5 (C&/11/2015) X MANUFEST NUMBERS IN OSER
WHICH ANSTE COOP
WHICH ANSTE COOP
FRECEIPT
OF RECEIPT
OF RECEIPT
OF RECEIPT WASTE COLLECTOR/PROCESSOR SHIPPER USE CHAY CHIGHATING CONFACT REGION ON STATE A SOURCE MATERIAL 0.0009€~00 C 5000E+50 100 E STOLE 00+30000 g PAGE 0.3000E+00 8 8284-1 A-1 MANAGET NUMBER C. ACTIVITY R 1,4800E+02 1.45005+02 Dige 64,000 a D. VOLUME 1519.29 42.8151 (m²)

APPROVED BY OMB: NO. 1150-0164 region in response to comply with information contention request. As advance. This customs installed by ARC to must reporting mountments of Federal and Suns Agencies for the sale mountment of region in guides a current to two DNA. Privacy and information Collections function (Federal Collections Function) (Federal Collection) (Fede

APPROVED BY OMB: NO.3150-0166 burden are response to carrilly with this information exhibition request 0.3 hours. This uniform modifiest is required by NRC to meet reporting requirements of Federal and State Agencies for the safe transportation and disposal of low-level waste, Send comments regarding EXPIRES: 123/12016 SECTION CONTROL (2755-0) (INC.) Privacy, and to the Peak Officer, Office of information and Regulatory Affelds. Section Control of Peak Officer, Office of information and Regulatory Affelds, and to improve the safe transport of Peak Officer, Office of information and Regulatory Affelds, and the Peak Officer, Office of information and Regulatory Affelds, and the Peak Officer, Office of information and Regulatory Affelds, and the Peak Officer, Office of information and Regulatory Affelds, and the Peak Officer, Office of information and Regulatory Affelds, and the Peak Officer, Office of information and Regulatory Affelds, and the Peak Officer, Officer of information and Regulatory Affelds, and the Peak Officer, Officer of information and disposal of low-level waste, Send comments regarding the Peak Officer, Officer of information and disposal of low-level waste, Send comments regarding the Peak Officer, Officer of information and Regulatory Affelds, and the Peak Officer, Officer of information and Regulatory Affelds, and the Peak Officer, Officer of information and Regulatory Affelds, and the Peak Officer, Officer of information and regulatory Affelds, and the Peak Officer, Officer of information and regulatory Affelds, and the Peak Officer of Information and Information of Federal and State Agencies for the safe transportation and disposal of low-level waste Agencies for the State
Modal 1 Contra Cherry who Codes, cord street of the contra development of the codes in the c					45 104-15 J		5	STEP ,	C MUNICES	UUSTABER		Additional Nuclear Regulatory Commission (NRC) Requirements for Control, Transfer and			(01-2014) UNIF	101 3014
se in Code: (c. d.) In provide Antonio In hy "Col" In Ober Desco								Size Non-1)	TION TION	CONTAINER		r Regulatory	CONTAIN	,W	ORML	
Solder for a Strington of the Market of the					13				NO. JAN		NOIL OF THE WORLD OF THE PROPERTY OF THE PROPE	Commission	CONTAINER AND WASTE DESCRIPTION	WASTE MANIFEST	OW-LEV	
					5.05.030		200	ž	SA AND	WASTE	NOIL OF THE PROPERTY OF THE PR	(NRC) Req	STE DESCR	NIFES	FL RAD	TO HOUSE
NOTE 2: Waste Descriptor Concept Control Contr			***************************************					To Lowbay	FUDIATION	ACE	Adete	uirements for	NOTION	-	UNIFORM LOW-LEVEL RADIOACTIVE	CONTRACTOR OF THE PROPERTY OF
iptor Codes. (Ch 25 Den 30 Catic 31 Amus 32 Muse 33 Orga 34 Orga 35 Ossa 36 Sasa 36 Sasa 37 Pany			-				O Section 1	1	CONTABINATION NOTIFICATION	17.25.15 (4.		Control, Tran		1	त्ते	TOTAL COMM
(Choose up to tires which p Demonstrates Carbon for a change Madia Aman Ben-Archinge Madia Aman Bed in -accompt Madia Aman Bed in -accompt Madia Carbon Common (Change Madia) Organic Liquid (no.cyalo) Organic Liquid (no.cyalo)							3	Twant S				sfer and		52.		
es which pred Msdia Msdia inge Madia muel ind oil) re							08		MASTE		1.480	N THE	7	OKTAUREF(S	25. W.D.A.	A COLUMN TO A COLU
NOTE 2: Waste Descriptor Codes, (Choose up to force which profom/nate by volume.) C. Clarocel 2: Dennium R. 1; 3: Evaporato Deprime St. oge 2: The enable A. Comprished Trach 3: Comprished Trach 3: Annual Carolina St. Marci Bed In-ever single Media 4: Annual Caro				The state of the s			42 9154	CONTAINER	APPRODUATE WASTE	PARTICIAL DESCRIPTION	1.4800E+02	ATT MOCTORS	19.1139	(14)	NET WASTE	Contract of the passessing of the contract
ominate by volume 3 3. Evaporatio Buttane St. aggas Concentrate 4. Compactible Trach 4. Annual Carcias 4. Annual Carcias 5. Tracket Mariet 5. Other Date: so in item 11, or active or page							Š	(See William)	TOLIC FICATION	NOW NOT	NP	MULIBIE	5080.2349	(g)	ME SHT	TWO THE PERSON NAMED IN COLUMN 1
		-			I		ACCAP.			14.	NP	634	ACTIVITY (Miles)	(123)	The same of the sa	
Note3: For solidification for all solidificat						1			CT.A. "IG ACT VI	CHERCAL DESIGN					SPE	
fication media the van ion media the van N. Soir T Sorb So. 2 da Dri G. Figner Y 88 Soid A Soir Soir Soir Soir Soir A								N.0 Call	CHE LINE	S TO	NP	Toda	P	0.236	SPECIAL NUCLEAR LATERIAL ISTAN	
dor in the series at the serie			-		-	Total	Ra-226 Ra-228	2 3	3 3	E THE WOOD	NP	1.629	NP	P	MATERIAL ISO	
tended branch							228	1	NDN	TANG	_			-	(nais	
a factory rest				1.4800E+02		1,4800E+02	7.4060E+01 7.4000E+01	AND RAD	WIL IVADION	RADIO	NA.	SDURGE (PH)	NP	Total		
Tren in the state of the control of				02		92	94	ONGOLDEN.	TIDES AND A	RAPIOLOGICAL DESCRIPTION	NA	HRP	4 8	J. P/		1 2 1
Solidineation Solidineation Solidineation Coment Co								AND RADIO (6.2) DE VENZUATI	VOTINIO OCICIO AN	MONTHER	NA NA	Associates -	P I	PAGE 1 OF	8284-18A	WANTED NO.
Note3: For solidification media the windor immunication and branch name must also be identified in the 13. Code 10 cell (NE POZOVE) For all solidification media the windor immunication and branch name must also be identified in the 13. Code 10 cell (NE POZOVE) For all solidification media the windor immunication and branch name in the 13. Code 10 cell (NE POZOVE) For all solidification media the windor immunication and branch name in the 13. Code 10 cell (NE POZOVE) For all solidification media the windor immunication and branch name in the 13. Code 10 cell (NE POZOVE) For all solidification media the windor immunication and branch name in the 13. Code 10 cell (NE POZOVE) For all solidification media the windor immunication and branch name must also be identified in the 13. Code 10 cell (NE POZOVE) For all solidification media the windor immunication and branch name must also be identified in the 13. Code 10 cell (NE POZOVE) For all solidification media the windor immunication and branch name must also be identified in the 13. Code 10 cell (NE POZOVE) For all solidification media the windor immunication and branch name must also be identified in the 13. Code 10 cell (NE POZOVE) For all solidification media the windor immunication and branch name must also be identified in the 13. Code 10 cell (NE POZOVE) For all solidification media the windor immunication and branch name must also be identified in the 13. Code 10 cell (NE POZOVE) For all solidification media the value of 12 cell (NE POZOVE) For all solidification media the value of 12 cell (NE POZOVE) For all solidified in the 13. Code 10 cell (NE POZOVE) For all solidified in the 13. Code 10 cell (NE POZOVE) For all solidified in the 13. Code 10 cell (NE POZOVE) For all solidified in the 13. Code 10 cell (NE POZOVE) For all solidified in the 13. Code 10 cell (NE POZOVE) For all solidified in the 13. Code 10 cell (NE POZOVE) For all solidified in the 13. Code 10 cell (NE POZOVE) For all solidified in the 13. Code 10 cell (NE POZOVE) For a			*			1				SPATS SPATS	in X	HRP Associates - Claremont GWTP		F 1 PAGE(S)	8284-18A	All services
7 is	1						£	Data 6	Contract			7		(5)		

8284-18A NRC FORM 542 (01-2014) CENERATOR List all original "PROCESSED WASTE" generators (if any) before "COLLECTED WASTE" generators. UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST MARKEST INDEX AND SEGICAL COMPACT TABULATION Associates - Claremont GWTP PERMIT NUMBER (IF A. PLOAM)
AND THE PHONE U.S. NUCLEAR REGULATORY COMMISSION : 5... V 1/1 ; Rosd C + 58. N 11+24 GEVERATO ADDRESS SHIPPING DATE NAME IDENTIFICATION NUMBER \$254.58A HRP Associates - Claremont GWTP PTE COLUMN WASTE (OR MATERIAL) VOLUME (m²) TOTALS OF ALL PAGES (NRC FORMS 542 AND 542A) MAY SOLVED STATES 8284-184-1 (28/11/2015) AN WASTE COLLECTOR/PROCESSOR P=PROCESSED
C=COLLECTED THIS INTERNATIONAL OBIGINATING COMPACT REGION OR STATE TWINTINM SOUNCE Y 0.0000E+00 0.00000000 8 N. 0,00000E+00 7 MANUFEST NUMBER G000001+00-PAG 仓 8284-19A-2 C ACTIVITY 0 1,44500-422 1,4800E+02 (MES PAGE(S) DIOLUE. 43,5111 42 8151 J

APPROVED BY ONE: NO. 3150-0165 Extensive bursens as comply with this information conscious request 45 minutes. This uniform manifest is bequired by NRC to inject toporting requirements of Federal and State Agencies for the synt term protocol and despite a federal control of the protocol and despite a federal and State Agencies for the synt term protocol and despite a federal and State Agencies for the synt term protocol and despite a federal and State Agencies for the synt term protocol and despite a federal and State Agencies for the synt term protocol and despite a federal and State Agencies for the synt term protocol and despite for the synt term protocol and despite for the synt term protocol and a federal and State Agencies for the synt term protocol and despite for the synt term protocol and the synt term protocol and despite for the synt term protocol and d

APPROVED CY OMB: NO. 3150-0164 Estimated burden per response to comply with this information collection request. 45 minutes. This uniform manifest is required by NRC to meet reporting requirements of Federal and State Agendage for the safe transportation and disposal of low-level waste. Sand comments EXPIRES: 1231/2016 AFT and the Control in the Con

NRC FORM 540 15083107192 3 3 3 5 quantity of material, 7 UN 2910, Radioactive material, excepted package-limited IN THE RESERVE AND THE RESERVE AND THE PROPERTY. Self-religible 800-510-8510 THE THE COUNTY TO THE COUNTY THE COUNTY TO T (included to the second OCCUPATION OF THE Driver released pending resolution Actual received 29500", but of perstene baker via telerom Vailis 37598-0 per Schedule 50C BALLIN STON UNIFORM LOW-LEVEL RADIOACTIVE U.S. NUCLEAR REGULATORY COMMISSION 3. TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST FPA WALLS TO MARKE WASTE MANIFEST W. SHIPPING PAPER 8/31/15 oc Š TABOTO GYE. TRANSPORT SIGNATURE. Trad Tarry Inc PO, Box 14 M 11 C 74502 Dick Dune / MITCHAL J. HYAT N H. F. Associative - Chamber Civity 505 Winding Road Old Hethpage NY 1864 CONTACT PERMIT NUMBER × Jannar Kelchi etar Takach DHEMOAT BOKIN SHIPMENT NUMBER Ra-226 Ra-228 330-ra+8044 GENERATOR TYPE EPAID WAVEER PROCESSOR SHIP PING DATE (Include Area Code) 516-777-7242 COLLECTOR 3/53/8 Neco ALVA NA STAMPS OF LAST TATESASMA US Ecology 20400 Lemley Road Grand View, JD 83824 de sis compresile years — in capara are and an extensive or construction according to the end, bassinest, or Angel, market in a construction according to the angle called my orders of a Department of the construction according to the angle called my orders of the construction according to the angle called my orders or a Department of the construction according to the angle called my orders or a Department of the construction according to the angle called my orders and the called * RAC FORM 540 AND 540 NRC FORM 541 AND 541A 1410 FORM 542 AND 542A Mary Harry SON SENDER OF THE STANDARD NOTAMBORNI JANOTION ACTIVITY (Mag) 1.4800E+02 PACE 1 OF FROME PAGE(S) S COSMS 1 PAGE(S) 712 Ht.3; 675 FT3 F0 3 L S (U ... appropriate) MANUSEST NUMBER Tino Corpores 6284-184.3 COMMO (Use this number on all synthesism, pages) SMITTON BO 8-31-15 SEVIS MADINE OF

APPROVED BY ONIB: NO. 3150-0166 Estimated burston per response to comply with white information contraction required: 33 hours. This uniform manifest is required by MRC to meet reporting requirements of Federal and Stote Agencies for the safe transportation and disposal of low-level waste. Sand comments regarding EXPIRES: 1201/2015 Household for the Sand Comment of Sections (Sand Federal and Sand Comments of Sand Federal and Stote Agencies for the Sand Comments regarding ExPIRES: 1201/2015 Household Federal and Sand Comments of Federal and Stote Agencies for the Sand Comments regarding ExPIRES: 1201/2015 Household Federal and Sand Comments regarding ExPIRES: 1201/2015 Household Federal and Sand Comments regarding Federal and Stote Agencies for the Sand Comments regarding Federal and Stote Agencies for the Sand Comments regarding Federal and Stote Agencies for the Sand Comments regarding Federal and Stote Agencies for the Sand Comments regarding Federal and Stote Agencies for the Sand Comments regarding Federal and Stote Agencies for the Sand Comments regarding Federal and Stote Agencies for the Sand Comments regarding Federal and Stote Agencies for the Sand Comments regarding Federal and Stote Agencies for the Sand Comments regarding Federal and Stote Agencies for the Sand Comments regarding Federal and Stote Agencies for the Sand Comments regarding Federal and Stote Agencies for the Sand Comments regarding Federal and Stote Agencies for the Sand Comments regarding Federal and Stote Agencies for the Sand Comments regarding Federal and Stote Agencies for the Sand Comments regarding Federal and Stote Agencies for the Sand Comments regarding Federal and Stote Agencies for the Sand Comments regarding Federal and Stote Agencies for the Sand Agencies for the

Note 1: Conjume: Description Codes, For continents waste requiring dispose in approved structural everpsets the num rotate of must be solved by "op"." 1 Version Description ("but Codes") 2 Metr Ed. ("but Codes") 3 Metr Codes ("but Codes") 4 Metr Codes ("but Codes") 4 Metr Codes ("but Codes") 5 Metr Codes ("but Codes") 6 Metr Codes ("but Codes") 7 Metr Code					9000 Jan	IMBERY ENGLATO 13	CONTARES.		Additional Nuclear Regulatory Commission (NRC) Requirements for Control, Transfer and		ONI	(01-2014)
in approved structure by the codes. For continuous by the code structure by the code str						7 7 2	CONTINER		r Ragulatory (CONTAINE	WASTE MANIEEST	2011
Oodes, For continuous Overal everpack Deviant by "Oliv" Deviant by "Oliv" Deviant by "Oliv" Oracle Continuous Oracle One Continuous			111			-		Dispusal of Radioactive Weste	Commission (CONTAINER AND WASTE DESCRIPTION	WASTE MANIEEST	NAT I EVE
			9457300			2 9 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	71514	dioactive W	NRC) Requi	TE DESCRI	NIEEST	0 ^ 0
TE2: Wasta Descriptor Grands G							FACE	ste	rements for	PTION	OACIN	E BADIOACTIVE
npror Gudes (c			1		C3-94/(ID-07	ALEHA 2	10 SURFACE		Control, Tra		ñ	ì
(Choose up to three which p					11,6706-05	SA.	m		nsfer and	K gransons		
ree which pres					75			1.48	ALX	1	D SHOSAL	AD Magnetic
NOTE 2: Wasta Descriptor Codes. (Choose up to three which predominate by volume.) 31	The state of the s				1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	N. S. P. L. C.	A SET TERESPO	1.4800E+02	אדר אחבלום??	19.1139	(50)	NET WASTE
ominate by volume.) 2) Expression of the control o					NA	SCAD CATO STAR CATE WEDA	TION SOMETIME	QN	VATILLE	5080.2349	(fg)	NET WASTE
					S.C.	CHENGAL SEAL	4	NP	5-14 (000) 2040 mg	NP	U-233	
Noted: For solidification med Service 64 3 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	i.					A BAT	C (E) C (1) (1) (A) (A)	NP	75.99	NP	U-225	THEOTHE
oon medis that meel media, the vendor (n					4	CHELATING AGENT AGENT IF > 0 1%	KENTA SANKINE					SPECIAL NUCLEAR VAIERIA. (grams)
teet disposal site si f (manufacure) an correct by f Correct by f Corr				Total	Ra-226 Ra-228	***************************************	H CONTAMES	NP	L129	N _D	F	ERIAL (grams)
ouchiral stability in and brand name must brand name must be seen at the property of the prope		**************************************	1.4800E+02	1.4800	7.4000E+01 7.4000E+01	CONTAINER TOT		NA	SOUNCE (k)	NP	Total	
requirements, i st also be iden st also be iden E9 Chr U4-scribe in em 13 or 		and the second	E+02	4800E+02	E+01	AL OF CONTA	Modestackast 140/50 gron	AN		ي ا	,]	
the numerical code mutified in item 13. God Sculiffice 90 Comer 1. Concrete 1. Concrete 1. Concrete 1. Concrete 1. Concrete 1. Concrete 1. Concrete 1. Concrete					and the second	AND BADONECTOE SESON MENTAL OF THE CONTRACTOR OF THE PROPERTY	Müdebür	SHIPPER I.D. NUMBER	RP Associates -	PAGE 1 OF	200	MANUES
Notes: For solidification media, the vendor (manufacturery) and brand name must also be identified in lism 13. Gode 100+NONE REQUIRED. Septimor					NA		CLASSIF.	SER	HRP Associates - Claremont GWTP	PAGE(S)		8284-18A-3

(01-2014)	UNIFOR	MANIFES	List all origin. before	4	CONTRACTOR CONTRACTOR	Blass-W					
O'G' MOCKETA NEW	UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST	MUNIFEST HOCK AND REGIONAL COMPACE TABLEAT OF	List all original "PROCESSED WASTE" generators (if any) before "COLLECTED WASTE" generators.	(2)	GENERAL ON ALLE PERMIT NUMBER (* APPUCAL) AND TELL PREME NUMBER	PRIVA HICKORES - CLIN HAR OWNP					
C. C. NOCKERA PERSONAL COMMISSION	IVE		fany)		CAMPANTER FACILITY FUNCSS	200 NACC 424, NY 4111.4					
-	NAME HRP Associa	DEST FOATON NUMBER	alted Set deals			arrange (THE PROPERTY OF THE PROPERTY O				
	AME HRP Associates - Claremont GWTP	SHIMING		,	PHEPROXISED WAST (OR MATERIAL) VOLUME ((I'')						TOTALS
WASTE COLLECTOR/PROCESSOR		and the second s	W	5		8284-184-1 (08/11/2015)					TOTALS OF ALL PAGES (NRC FORMS 542 AND 542A)
ROCESSOR				***************************************							FORMS 54
	ATHO SON KINAPIN			10				-			2 AND 542A)
	*			1.74	A SOURCE	0.00005+00					0.666.025-00
D MAN	8284-18A-3		PAGE	AS PROCESSED	NAS E	0.00001400					00430000
MAUREST NOMBER	۵		8	AS PROCESSED COLLEGIES FORM	G_ACTIVITY (MEN)	1.4800E+02					1,4800E+02
			PACE(3)		(m)	42.685			***		42.8151

APPROVED BY OMB: NO. 1150-0155. Technical burdon per response to comply with this inflammation collection request 45 mbudes. This coliform manifest is required by NEC to meet reporting transfer self-feeding and favorable for the safe transportation and favorable for the safe transp

ATTACHMENT I Certificates of Disposal

CERTIFICATE OF DISPOSAL

September 04,2015

CLAREMONT POLYCHEMICAL, NYS DEPT. OF ENV. CONSERVATION 505 WINDING ROAD OLD BETHPAGE, NY 11804

This is to certify that waste as defined on Waste Manifest number <u>8284-18A-1/</u> was received by U.S. Ecology, Inc., on <u>08/18/2015</u>. The waste(s) were subsequently treated, if required by 40 CFR Part 268 and U.S. Ecology's permits and disposed of on <u>08/18/2015</u> in accordance with permits and laws regulating this facility.

Reference Number: 15081806735-8284-18A-1-1-1

Material: 1 ROLL-OFF

Process: Direct Landfill

Management Code:

Facility: U.S. ECOLOGY IDAHO, INC.

20400 LEMLEY ROAD GRAND VIEW, ID 83624 EPA ID: IDD073114654

Waste Stream #: 37598-0

Waste Type: NON HAZARDOUS WASTE

Customer: PLEXUS SCIENTIFIC CORPORATION D.B.A. PLEXUS-IEM

Printed Name: DONNA PULLEN

Signature: Donna Pullen

Title: RECEIVING SUPERVISOR

CERTIFICATE OF DISPOSAL

September 01,2015

CLAREMONT POLYCHEMICAL, NYS DEPT. OF ENV. CONSERVATION 505 WINDING ROAD OLD BETHPAGE, NY 11804

This is to certify that waste as defined on Waste Manifest number <u>8284-18A-2/</u> was received by U.S. Ecology, Inc., on <u>08/31/2015</u>. The waste(s) were subsequently treated, if required by 40 CFR Part 268 and U.S. Ecology's permits and disposed of on <u>08/31/2015</u> in accordance with permits and laws regulating this facility.

Reference Number: 15083107191-8284-18A-2-1-1

Material: 1 VACUUM BOX

Process: Direct Landfill

Management Code:

Facility: U.S. ECOLOGY IDAHO, INC.

20400 LEMLEY ROAD GRAND VIEW, ID 83624 EPA ID: IDD073114654

Waste Stream #: 37598-0

Waste Type: NON HAZARDOUS WASTE

Customer: PLEXUS SCIENTIFIC CORPORATION D.B.A. PLEXUS-IEM

Printed Name: DONNA PULLEN

Signature: Donna Pullen

Title: RECEIVING SUPERVISOR

CERTIFICATE OF DISPOSAL

September 01,2015

CLAREMONT POLYCHEMICAL, NYS DEPT. OF ENV. CONSERVATION 505 WINDING ROAD OLD BETHPAGE, NY 11804

This is to certify that waste as defined on Waste Manifest number <u>8284-18A-3/</u> was received by U.S. Ecology, Inc., on <u>08/31/2015</u>. The waste(s) were subsequently treated, if required by 40 CFR Part 268 and U.S. Ecology's permits and disposed of on <u>08/31/2015</u> in accordance with permits and laws regulating this facility.

Reference Number: 15083107192-8284-18A-3-1-1

Material: 1 VACUUM BOX

Process: Direct Landfill

Management Code:

Facility: U.S. ECOLOGY IDAHO, INC.

20400 LEMLEY ROAD GRAND VIEW, ID 83624 EPA ID: IDD073114654

Waste Stream #: 37598-0

Waste Type: NON HAZARDOUS WASTE

Customer: PLEXUS SCIENTIFIC CORPORATION D.B.A. PLEXUS-IEM

Printed Name: DONNA PULLEN

Signature: Donna Pullen

Title: RECEIVING SUPERVISOR