HERC/IGEM Project

Yr 2: Annual Progress Report

Project Title:	Sustaining the Competitiveness of the Food Industry in Southern Idaho: Integrated Water, Energy and Waste Management			
Principal Investigator:	Dr. Karen Humes			
Institution:	University of Idaho (lead) with subcontracts to Boise State University and Idaho State University			
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1) Summary of project accomplishments for reporting period and Plans for Yr 3:

The accomplishments and plans for the four primary tasks identified in the original proposal are summarized here (Tasks A-D). A summary of accomplishments for the overall project management and coordinated stakeholder engagement activities are also summarized below, listed as Task E.

The team would like to stress that our partnerships with producers, processors, municipal treatment personnel and water management entities (private and public) are fundamental to all of our tasks and our project as a whole. Our Yr 2 activities have been influenced and enhanced by interactions with our Stakeholder Advisory Board (described in more detail under Task E below) and interactions with other stakeholders as well.

Task A) Recovery of energy, nutrients, water and bioproducts from waste streams: bench to placebased pilot projects

Team: Erik Coats (UI, environmental engineering/molecular biology; emphasis on resource recovery from waste streams); Armando McDonald (UI, biomass conversion and bioproducts); Kevin Feris (BSU, algae-based resource recovery and microbial ecology))

Team background and overall goals:

This team collaborated for 10+ years and has the required multidisciplinary experience to integrate biological, chemical, physical and thermal approaches to the recovery of energy, bioproducts and nutrients from multiple waste streams. The team is leveraging investments made by the INL, CAES, HERC, and the IGEM incubation fund. Over the last 10 years our efforts have resulted in multiple extramurally funded awards, student training opportunities, scientific publications and a pending patent. We have worked across bench and pilot scales. Recent support from SBOE HERC allowed us to build a pilot scale system to convert dairy waste to value added products (biogas, bio-plastic, algal biomass); previous HERC funding supported construction of two pilot systems at UI by Dr. Coats-one located at the Moscow WWTP, designed for municipal wastewater and one mobile system (24 ft. trailer) designed for dairy manure resource recovery. We are engaged in testing, validating, and extending these systems to evaluate opportunities to recover high-value products (bioplastics, algae, biofuels) from industrial/municipal wastewater while achieving treatment. Research is focused on further understanding/optimizing our integrated system to maximize utility across input streams and demonstrate "real-world" applicability. Research objectives will further technology interrogations and advance wastewater as an economic resource. Ultimately, research will advance solutions that can be applied in Idaho agricultural and food processing sectors; producing economic value from waste will enhance Idaho-based industries by diversifying product portfolios.

Accomplishments this reporting period:

The following provides detail of progress in the first half of Year 2, building from Year 1 successes, towards the aims described in the original proposal.

Bench scale: Assess and evaluate nutrient recovery, energy reduction, bioplastics production, and algal production strategies to inform pilot scale operations.

a) Assessment of optimal process sequences (biological, chemical, physical, thermal) to recover energy, bioproducts (biofuels; bioplastics) and nutrients from mixed waste.

- (Coats) Bench-scale EBPR bioreactor operations continue to be operated and evaluated. One current focus is analysis of process "success" vs. "failure." Stable operations of any resource recovery system at full scale demands intrinsic knowledge on what constitutes stable operation, and how unstable, or "failed," operations might be recovered. Investigations are being conducted using macro- and molecular-level methods.
- (Coats) Phosphorus recovery from wastewater is most sustainably and reliably achieved through a process known as enhanced biological phosphorus removal, EBPR. Bench-scale EBPR operations are ongoing, with a focus on ascertaining the effects of key process operational criteria on maximal P recovery. Building from past research efforts, current investigations are focused on two operational scenarios that integrate a new operational strategy. One operational scenario feeds all wastewater to the bioreactor at one time (beginning of the cycle), while the 2nd strategy feeds a more targeted, controlled wastewater (VFA-rich fermenter liquor) at the beginning of the cycle and then the raw wastewater stream at the end of the anaerobic period. The former operational strategy is identified as the A/O process, while the latter is known as the Westbank process. A central question relates to understanding the effect of adding VFAs outside of the anaerobic period. In Y2 research was expanded to incorporate a new operational strategy that involves oxidationreduction (redox) control of the anaerobic period. Research suggests that "deep anaerobic" conditions can enhance and stabilize EBPR; we are utilizing real-time redox process control to further evaluate this operational strategy and its impact on operational "success" vs. "failure." Results will ultimately inform pilot (2020) and full-scale operations.
- (Coats) Another current focus is on achieving stable nitritation in an activated sludge wastewater treatment system achieving carbon, ammonia-N, nitrite-N, nitrate-N, and phosphorus removal. Nitritation is a biological process whereby ammonia-N is oxidized only to nitrite. Process success will result in significant energy savings in wastewater treatment. Process success was realized at both bench and pilot scale in late Y1 and in Y2; results are being reviewed to inform 2020 pilot operations, and also to generate a peer-reviewed publication
- Complementing the nitritation research are efforts to understand and better characterize denitritation, with the aim to further optimize the EBPR process for energy efficient nutrient recovery. Nitrate is a contaminant of concern in drinking water, and often must be removed from wastewater prior to discharge to the water environment. A primary concern with conventional EBPR processes that integrate nitrite/nitrate reduction is the potential production of nitrous oxide, which is a very potent greenhouse gas (300X CO₂). Bacteria exhibit variable metabolic pathways to reduce nitrate vs. nitrite; some bacteria cannot reduce nitrate to nitrite, which requires a more complex microbial culture to successfully eliminate nitrate from the wastewater. Ongoing efforts by one of Coats' PhD students is

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centered on better understanding the metabolic capabilities of bacteria and how they reduce nitrate vs. nitrite.

- One of Coats' PhD students conducted intense evaluations of the dairy-based PHA pilot in Y1/Y2, with very successful results. Ongoing efforts are focused on finalizing and submitting a peer-reviewed journal manuscript that details the results from these investigations; the publication will be submitted in June 2020. The manuscript includes numerous team members, including McDonald's research team. Coats' PHA pilot also went into operation in spring 2020; a primary focus is to couple Coats' PHA pilot with his EBPR pilot to evaluate broader process integration for enhance waste resource recovery.
- Algal cultivars were used throughout year 2 for routine experimental deployment. On-going experiments continue to be focused on cultivation at both bench and pilot scales employing wastewaters from multiple sources (e.g. currently dairy and municipal provided by the Coats lab and the City of Boise, respectively) to maximize nutrient capture and algal biomass production as well as production of high-value PUFA enriched algal biomass. Bench scale experiments have identified which strains produce optimal levels of biomass under various cultivation conditions and have been translated to pilot-scale operations of our greenhousebased algal cultivation systems. Current bench scale experiments continue to assess the utility of municipal sourced struvite to cultivate high value algal biomass under controlled conditions, while simultaneously capturing struvite sourced nutrients (e.g. nitrogen (N) and phosphorus (P)). We are continuing to work with three algal strains known to produce high concentrations of omega-3 fatty acids under the proper cultivation conditions (i.e. Chlamydomonas reinhardtii, Nannochloropsis oculata, and Paeodactylum tricornutum). Initial experiments suggested that certain modifications to the cultivation conditions were required to obtain significant levels of growth when using struvite as the primary nutrient source. These experiments not only direct future work for optimization of algal cultivation on municipal struvite, but are also potentially applicable to struvite produced from agricultural resource recovery systems. As we hone our understanding of what cultivation media factors and growth conditions are required to maximize growth and high value biomass production we will then scaled these experiments up to pilot scales to evaluate high-value algae production at these larger scales.

We also initiated greenhouse/pilot-scale cultivation experiments during Fall 2019 and Spring 2020 that are pursuing mixed-culture approaches for the capture of nutrients from liquid wastewaters. Produced algal biomass from these experiments has been dewatered and preserved for HTL processing by the McDonald lab. During year 3 nutrients captured from the HTL processing of algal biomass will then be tested as inputs to a struvite production system (either via modeling or bench scale struvite production). Struvite produced in this way will then either be tested similar to the municipal struvite experiments described above or analyzed for mineral content to allow accurate estimate of the utility of the algae-capture nutrients purified by struvite production. Based on this suite of experiments we will determine the most appropriate mechanism for algal cultivation and nutrient source in our integrated system. Initial greenhouse cultivation results suggest we can generate high levels of algal biomass on PHA reactor effluents. However, we need to continue this work to

determine stability of the production system (i.e. in terms of growth rates, yields, and nutrient capture rates) and repeatability of the HTL processing outputs.

We initially expected to have some biomass characteristics data acquired during the second half of year 2. However, due to experimental delays induced by the COVID-19 pandemic this effort will continue into year 3. We will build on these experiments in year 3 to enhance our focus on the quality of the produced algal biomass in the context of potential economic returns of a commercialized system and/or the influence of the nutrient capture on the potential to reach a "Net zero" status for a given agricultural system. These goals are informed by our discussions with our stake holder advisory group, as noted below.

- ii. Pilot scale assessments: Conduct pilot scale evaluations from mixed waste streams; implement/evaluate treatment resource recovery processes.
 - Both Coats' pilot systems were operational in Y1, and have been re-started for Y2, to continue into Y3. Coats' research team was fully trained on systems operation.
 - Completed 2019 operations of Coats' pilot operations at the UI dairy (PHA pilot) and at the city of Moscow, Idaho (EBPR/nitritation pilot). Former efforts were intensively focused on collecting data to facilitate ultimate transition to a full scale system; ongoing data interrogation is informing and being integrated into a journal manuscript. Moreover, PHA pilot data greatly informed potential future scale-up to commercial operations, and the team is evaluating potential new funding opportunities to make the transition to commercialization. Latter efforts focused on preliminary assessment of integrated EBPR-nitritation, with an emphasis on integrating ammonia-based aeration control (ABAC) to enhance nitritation over nitrification. Successful nitritation was achieved for the entire month of August 2019 (early Y2); data evaluation is ongoing, with the aim to inform 2020 pilot operations.
 - The initial pilot scale greenhouse systems have been constructed at the Boise State research greenhouse and were validated for suitability for cultivation of multiple algal strains. We purchased, installed and tested a new 20L flow through centrifuge for rapid collection and concentration of the algal biomass produced in our pilot-scale greenhouse cultivation experiments. Installation and safety checking of the centrifuge took longer than expected slowed the rate of optimization of operational conditions in the first half of year 2. However, final installation and testing of the centrifuge was completed prior to December 2019. In Jan 2020 we initiated our greenhouse scale experiments, employing both controlled media and effluent sourced from the pilot-scale PHA system operated by the Coats lab. Initial cultivation experiments were successful and produced significant quantities of algal biomass for testing in our HTL process development (McDonald lab). Although the full suite of proposed greenhouse scale experiments for year 2 may not be completed in year 2, the majority of the experimental operation and sample collection will likely occur in year 2. However, completion of data collection and analysis will most likely be delayed until the start of year 3. This additional delay is due to the COVID-19 pandemic and associated temporary closures of research facilities at Boise State University. During the last month of year 2 and first months of year 3 we will do our best to accelerate the rate of these experiments to facilitate our ability to inform decisions about which types of algal

cultivation systems to couple with the AD/PHA aspects of our integrated system. We will continue to operate the pilot scale algal cultivation systems through 2020 in collaboration with the Coats and McDonald labs at UI.

- iii. Produce prototype products (bioplastic mulch film, biochar, biofuel) for evaluation.
 - One PhD student in McDonald's lab has been working on extracting and isolating pure PHA bioplastic generated from eight trials on the pilot plant over 84 days of operation. Each batch of PHA was produced under slightly different operating conditions (see section ii). The eight batches of the purified PHA bioplastic are being characterized for their thermal and rheological properties in order to determine their suitability for producing bioplastic films. We have been evaluating different extraction and purification methods to improve the recovery of PHA from biomass and the purified PHAs are being characterized.
 - With the on-ramping of the greenhouse scale experiments in Fall 2019/Spring 2020 in the Feris lab we will begin to produce suitable quantities of algal biomass for use in HTL experiments by the McDonald lab. Primary outputs of HTL processing of algal biomass will include biofuel (i.e. biooil), biochar, and aqueous phase nutrients. The aqueous phase will be recycled to the algal cultivation system to enhance algal biomass production.
- Partnerships with producers, processors and municipal treatment personnel are fundamental to all of these tasks. Team will build on existing relationships with Twin Falls wastewater treatment facility, Food Northwest, Chobani, Amalgamated Sugar, J.R. Simplot, Idaho Dairymen's Association, and Glanbia, and expand to new partners throughout this project
 - a. A second SAG meeting was held virtually on December 17th, 2019. This meeting focused on providing research updates to our SAG committee members and inquiring with them on where they felt we should focus our efforts over the remainder of year 2. SAG members were supportive of the direction of the research but provided feedback that the team should continue to focus on potential routes towards commercialization of the technologies under investigation. SAG members renewed their commitments to help the team pursue potential routes for commercialization as opportunities arise. Additionally, the SAG provided additional detail on how to best help move portions of our work towards commercialization. These included suggestions to focus interpretation and analyses of experimental outcomes in the context of typical or example real world systems. Specifically, to look into how our technology would translate to implementation at a 1500 head dairy (the typical dairy size in ID). The SAG also suggested we look into how implementation of our technology would help Idaho Dairies reach a net zero status. One means by which the team could achieve these goals would be to engage students and faculty from the Business schools in our respective universities.
 - b. Additionally, our SAG engagement resulted in leadership from the Idaho Dairymen's Association inviting two members of our team (Feris, Coats) to the joint Idaho/Utah Dairymen's association meeting in Salt Lake City, UT in July 2019. This meeting provided an opportunity to further develop relationships with regional dairy producers and to introduce them to the potential outcomes of our project. Additionally, the Idaho Dairymen's Association networked Coats/Feris with Newtrient LLC (Steve Rowe, CEO). Newtrient is advancing an integrated set of technologies focused on achieving 'net zero' emissions from dairies. Discussions will continue with Newtrient to i) potentially ascertain how the PHA

technology might be integrated, and ii) potentially collaborate on future commercialization funding.

- c. <u>Research plan adjustments in response to our Stakeholder Advisory Group (SAG)</u>: SAG feedback from the mid-year meeting in December 2020 continued to support our focus on the utilization of struvite as a nutrient source for algal cultivation for production of high value biomass. Further, current algal cultivation experiments are being planned within the context of potential future application at a typically sized ID dairy and in the context of net economic return. We are also investigating the effect of our integrated technology on the ability of an agricultural system to achieve net zero status, however this work is in its early stages and will require more effort during year 3 to make significant progress. The Feris lab also intends to seek out a suitable and interested business student to help us translate our algal productivity data to economic value projections during year 3.
- d. <u>Another recommendation from our December 2019 SAG meeting was to evaluate</u> i) the greenhouse gas footprint of Coats' PHA process, and ii) evaluate the potential of Coats' PHA process to remove phosphorus. These evaluations are ongoing.
- e. One of our goals for year 2 of this project was to continue to build on our budding Stakeholder relationship with the hopes that they will blossom into partnerships for seeking pre-commercialization funding in year 3. We continue to work towards this goal and during year 3 we will focus our data collection efforts on system development and scale up as well as communication of research findings with our stakeholder group.
- f. Research plan adjustments in response to the COVID-19 pandemic: Research facilities at the University of Idaho and Boise State University were shut down for a significant component of the second half of year 2 of this project. During the facility shut down research activities were focused on data analysis, literature reviews, and planning for experiments once facilities were reopened. Although some delays in data collection were experienced due to the COVID-19 pandemic, as of early June 2020, research facilities at both institutions are re-opening and we hope to make significant progress towards our year 2 research goals in the last month of FY20. Travel to and attendance at conferences/meetings that were planned were halted during this period and delivery of presentations impeded. Additionally, Dr. Feris' sabbatical plans were interrupted by the COVID-19 outbreak and corresponding limitations on travel around the state. However, we plan to utilize our team's stakeholder meetings to enhance our relationships with local municipalities and regional agricultural representatives.

Goals/Plans for Year 3 (Task A):

i: Bench scale

 In year 3 nutrients captured from the HTL processing of algal biomass will then be tested in a secondary stage algae production system for high value commodity production either directly as aqueous nutrients or via production of struvite. Based on these experiments and those of the primary stage algal cultivation we will determine the most opportune mechanism for algal cultivation in our integrated system as a primary nutrient capture stage and a secondary high value biomass production stage or as a single primary or secondary stage system. Our evaluation will be based on the algaes growth rates, yields, biomass characteristics, and economic potential when grown in the different wastewater nutrient sources.

- Advance new knowledge on operational criteria to discern between process "failure" and "success" for enhanced biological phosphorus removal. Generate a publication.
- Advance new knowledge on achieving shortcut nitrogen removal in biological wastewater treatment. Emphasis will be both on reactors performing enhanced biological phosphorus removal and on reactors just performing ammonia-nitrogen removal. Generate a publication.
- Finalize a metabolic model for producing biodegradable plastics from fermenter dairy manure. Generate a publication.

ii: Pilot scale:

- Operate and analyze performance of Dr. Coats' bioplastics pilot system at the UI dairy.
 - Refine and evaluate operational criteria based on successes from Y2 operations.
 - Produce quantities of bioplastic material from Coats' pilot scale system for McDonald's ongoing polymer characterization work.
 - Undertake blown film trials using pilot scale produced bioplastics
- Operate and analyze performance of Dr. Coats' municipal enhanced biological phosphorus removal system located at the city of Moscow wastewater treatment system. Focus on translating/assessing operational criteria from Coats' bench scale reactors to his pilot scale systems. Specific focus will be:
 - Achieve and assess shortcut nitrogen removal
 - Evaluate the impacts of the return activated sludge flow rate on process stability and performance
 - Evaluate the impacts of integrating effluent from Dr. Coats' bioplastics pilot on overall wastewater treatment and resource recovery
- We will continue to operate the pilot scale algal cultivation systems through 2020-2021 in collaboration with the Coats and McDonald labs at UI.

iii: Producing prototype products:

- Ongoing experiments in the Feris lab will begin to produce suitable quantities of algal biomass in year 2 and 3 for use in HTL experiments by the McDonald lab. Primary outputs of HTL processing of algal biomass will include biofuel (i.e. biooil), biochar, and aqueous phase nutrients. The aqueous phase will be recycled to the algal cultivation system to enhance algal biomass production.
- Produce bioplastic blown films for assessment
- iv: Training:
 - Conducting training for the city of Moscow, Idaho wastewater treatment staff, focused on the basics of biological wastewater treatment and integrating knowledge on the operation of their enhanced biological phosphorus removal system.

Task B) Decision-support tools for industry and community leaders to quantify and visualize trade-offs among water, energy, land use and municipal growth

Team: Jae Ryu, UI, systems dynamics modeling, water resources; Karen Humes (UI, water/energy nexus, geospatial analysis

Overall Goals:

The goal of this task is to integrate energy components into an updated version of a pre-existing system dynamics model for water supply, use and flows in the region of the Eastern Snake Plain Aquifer. The model which will serve as a decision-support tool for stakeholders (including the food producers, food processors, irrigation districts, water and energy providers and municipal communities/citizens). The tool will quantify and provide users with visuals on the linkages between water, energy, land use and municipal growth, to be used for planning and decision-making by producers, water users, businesses, utilities, state agencies and communities.

Accomplishments this period:

- Evaluated the existing model to determine how to implement water management options (e.g., managed aquifer recharge) given the existing data types available
- Interacted with IDWR on their newest ESPAM (Eastern Snake Plain Aquifer Model) model version and updated data needs
- Evaluated the feedback from IDWR and Surface Water User's Association at the stakeholder meetings in May 2019 and Dec 2019 and how the model could be more useful for stakeholders
- Incorporated new features that are available in Stella Architect into the system dynamics model and user interface.
- Performed a quality analysis of the most recent data available from IDWR and completed the integration process to bring the model up to date.
- Completed data placeholders for the updated water data from the ESPAM ground model
- Explored available data on energy use in irrigation, including interactions with IDWR and collaboration with experts on energy use in irrigation at Idaho Power.
- Further evaluation of spatial patterns in energy use for irrigation in the ESPA and controlling factors in order to identify key variables to relate water and energy use in irrigation (i.e., crop type, irrigation system characteristics, water source, etc.). Data analysis nearly complete, with publication to be submitted in August 2020.

<u>Plans for Yr 3 (Task B):</u>

- We will update available water and energy data for Stella Architect once the latest version of ESPAM model becomes available to the public
- We will continue exploring management options to incorporate into the model, such as water conservation, managed recharge, etc.
- We will be developing system evaluation criteria associated with new data inputs and potential uses for the expanded and update model, such as system reliability, vulnerability, resilience, etc.
- We will complete our analysis of available data on energy use in irrigation

- We will complete the development of a module for the system dynamics model that quantifies energy use in irrigation for two meteorological scenarios (average and above average demand in a growing season) and number of acres with other key variable combinations (eg., crop type, irrigation source/type)
- We will begin incorporating supply side scenarios to quantify the linkages between water, energy and land use and address the uncertainty of the water/energy nexus in the Eastern Snake Plain Aquifer.
- Submit draft of journal article describing the linkages between water and energy use in Idaho
- We will continue to seek input from our Stakeholder Advisory Board and other water and energy providers, managers and community leaders on how to make the tool/model most useful to them.
- We will explore water supply uncertainties driven by climate variability in the ESPA, particularly the impacts of more frequent drought conditions.

Task C) Technical innovations/sensing systems to reduce water/energy/nutrient use in targeted production systems:

Primary team members: Donna Delparte, (ISU, drone and satellite-based sensing systems) and partners among growers and crop consultants.

Accomplishments this period:

Progress in the following task area has been made through the subcontract award to Idaho State University and included:

• Goal 1 – Decision Support Systems

- Decision support online tool prototype for sustainable agriculture decisions making: <u>https://avalanche.geology.isu.edu/i2i/osgood.html</u>
- This decision support tool was developed by working with stakeholders and our Advisory Board member (Brandon Vining, ProGro) to provide remote sensing data/tools to aid decision making that is relevant to business decision making and operations
- Stakeholders are excited about the potential of the tool to improve ROI, reduce fertilizer inputs and improve precision farming techniques for sustainable agriculture
- Goal 2 Pilot projects to use drone-based, other field-based and satellite sensors to reduce water/nutrient/energy use in production of targeted crops
 - Conducted remote sensing analysis to forecast yield for potato growers based on a growing season of high-resolution satellite imagery (submitted for publication in 2019 to ASPRS Pecora Conference Proceedings by Masters student)
 - Conducted thermal camera surveys of irrigated cropland using UAS in the 2019 growing season to assess efficiency and support water reduction efforts. Data collected and analysis in progress.
 - Hyperspectral camera data collection during the 2019 growing season of potato crops to detect crop threats

- PhD student conducted experiment to determine essential spectral signatures required to detect individual unhealthy plants in a growers field that leverages machine learning of hyperspectral imagery – thus offering the opportunity to reduce inputs for control and mitigation of disease.
- New thermal and hyperspectral data acquired in the first portion of the 2020 growing season, as well as more training/testing with growers on the effectiveness of the satellite-based tool for monitoring emerging crops
- Co-I Delparte launched a new Idaho based spin-off company (I2IGeo) to provide growers with technological innovations and decision support to assist their operations, leveraging the research outcomes from this grant.

Plans for next reporting period:

For the next reporting period, the team will focus on the continued development and testing of UAS platform and sensor combinations for data collection in the 2020 growing season and the first part of the growing season in 2021, again in partnership with growers and crop consultants. Dr. Delparte will also continue to work actively toward commercialization of the most promising technologies from this research through her new Idaho company (I2IGeo).

Task D) Engaging the present and future workforce in the adoption of new technologies

Team members for training (primary): Karen Humes, Erik Coats, Kevin Feris, and partners at CSI, UI Idaho Falls and professional organizations such as Food Northwest, *Primary team member for drone outreach activities:* Jae Ryu (Idaho Drone League (I-Drone), Founder).

Overall goals:

The overall goals in this task are two-fold: 1) to provide direct support to our stakeholders in the nearterm by identifying workforce development needs that universities could plan and implement, together with partners at community colleges and professional organizations (resourced primarily in Yrs 2 and 3) and 2) contribute to longer-term workforce needs by holding outreach events designed to engage the future workforce in STEM activities that will serve the food industry in Idaho in the future, such as drone operations and the analysis of data from sensors onboard drones.

Accomplishments this period:

- Goal 1: Current/near-term workforce development needs
 - Engaged with a stakeholder (IDEQ) that approached us about workforce development needs and added a representative to our Stakeholder Advisory Board
 - Discussion and initial planning for training sessions we could hold in coordination with the rural water treatment association meetings later in Yr 2 and in Yr 3.
 - Due to Covid-19 and the cancellation of the rural water treatment association, some of
 - \circ the outreach planned for the end of Yr 2 had to be postponed to Yr 3.

- Goal 2:
 - Hosted a hands-on education program known as "Idaho Drone League(iDrone)" in the Treasure Valley in Fall 2019 to promote STEM pipelines and skills important to the Idaho food industry in the future.
 - There was a Drone League event planned for June 2020 in Twin Falls, which unfortunately had to be postponed due to Covid-19 closures and restrictions.

Plans for Yr 3:

- Training sessions to be held in conjunction with the Rural Water Treatment Association meeting and similar venues. If travel and in-person meetings continue to be problematic, we will hold virtual training sessions.
- Three Idaho Drone League events will be scheduled in Year 3. These event will include a table highlighting how drones can be used in food production (from Task C of this research). If COVID-19 continues in Yr3, we will adopt a hybrid option (e.g., virtual meeting for drone building/coding/programming + hands-on flight experience outdoor with social distancing and PPE).
- Continue to engage with our Stakeholder Advisory Board and professional organizations such as Food Northwest to identify and implement professional development needs in food, water, energy and waste and how the universities can catalyze and facilitate these.
- Continue to engage with other stakeholders such as the IDEQ on needs and opportunities in professional development on pollution control and management.

Task E) Project Management/Stakeholder Engagement

Background: An important element of our project management was to put together and meet regularly with an advisory board comprised of stakeholders in the food production and processing industries, water user groups and state agencies. In Year 1 we formed this advisory and had a very successful 1st meeting in person in Boise in early May 2019. As noted in the technical progress reports (earlier sections of this report), the board feedback influenced our research plans in Year 2, as planned. The board agreed to meet in it's entirety once/yr in person (Apr/May), once/yr via videoconference (Nov/Dec) and have specialized meetings between specific sub-groups of team and advisory board members in between.

Accomplishments this period:

- We held a 2nd meeting of our full Stakeholder Advisory Board (SAB) on Dec 17, 2019. As planned and discussed at our May meeting, the meeting was held by video, with 4-5 attendees in one conference room in The following SAB members attended and those listed with a (*) were invited and had hoped to attend but were not able to do so:
 - Jeff Bohlscheid, Senior Principal Scientist, J.R. Simplot Company
 - Shawn Moffitt, Regional Business Manager, Jacobs Engineering (contractor for City of Twin Falls and Chobani water treatment plants)

- Bob Naerebout, Government Affairs and former Exec Director, Idaho Dairyman's Association and and Megan Satterwhite, Environmental Programs Director, IDA
- Ben Nydegger, Biosolids Program Manager, City of Boise
- o Sean Vincent, Hydrology Section Manager, Idaho Dept of Water Resources
- Ben Jarvis, Pollution Prevention Projects Coordinator, Idaho Department of Environmental Quality
- Brian Olmstead*, President, Surface Water Appropriators and General Manager, Twin Falls Canal Company
- Brandon Vining*, ProGro Consulting
- The primary goal of this second meeting of our SAB was to update the SAB on our previous 6 months activities, particularly those things that had been prioritized or tweaked as a result of their feedback in May, and to gain more insight from them as to how we could make our research as useful to them as possible.
- PI Karen Humes and Co-I Erik Coats met individually with Ben Jarvis in Oct 2019 to discuss workforce training opportunities that could "piggyback" along with existing IDEQ events and/or professional meetings such as the Idaho Rural Water Association
- As described in some detail under our "Task A" Technical progress section above, two of our Co-Is (Coats and Feris) have done considerable outreach to the dairy industry in both Idaho and Utah, including presentations at the Utah Dairyman's Association in July 2019.
- We also established a cloud file storage space for our project (and shared it with the SAB) in which all presentations and notes from our SAB meetings are stored, along with our progress reports to the SBOE/HERC.
- PI Humes has begun a new stakeholder relationship with the Association of Idaho Cities
- In the way of other team management and organization among Co-Is at the multiple institutions, we have continued our monthly team meetings via videoconferencing.
- We had planned to hold a second SAB meeting in May 2019 but postponed it in the hope that meeting at a later date would allow face-to-face meeting. However, in late June we began preparations to hold another SAB meeting via Zoom in early July.

Plans for YR 3:

- Hold two SAB meetings (Dec 2020 and June 2021)
- Continue to build on existing relationships with Twin Falls wastewater treatment facility, Food Northwest, Chobani, Amalgamated Sugar, J.R. Simplot, Idaho Dairymen's Association, and Glanbia, and expand to new partners throughout this project
- Continue to hold monthly team meetings to monitor progress and facilitate coordination of all project tasks and stakeholder engagement activities. In coming months these meetings will focus on student presentations of research.

2. Summary of budget expenditures for Yr 2 (July 1, 2019 – June 30, 2020)

A detailed expenditure is provided in Section 6 at the end of the report, but the table below summarizes the spending in the major budget categories, relative to the budgeted amounts for Year 2. The expenditure report was run on June 30, 2020, but expenses for the last pay period in June, which ended on June 27, are not yet reflected in the amounts remaining. There are also a few operational expenses that are still working their way through the approval queue and have not yet posted. Our subcontractors final estimated invoices sent on June 15 indicated that all but \$267 of the funds allocated to them would be spent. We anticipate that all of the funds in the budget for UI investigators will be expended after all June expenses clear the system.

	 Budget	Expe	nses Cleared	Rei	maining*	 	
Salaries:	\$ 181,768	\$	179,629	\$	2,139		
Fringe Benefits:	\$ 25,901	\$	22,957	\$	2,944		
Irregular Help:	\$ 53,023	\$	40,965	\$	12,057		
Travel:	\$ 10,912	\$	10,511	\$	401		
OE:	\$ 65,760	\$	63,284	\$	2,477		
Subcontracts:	\$ 287,435	\$	287,168	\$	267		
\$5K > Capital:	\$ 18,245	\$	18,245	\$	-		
\$5K < Capital:	\$ 2,522	\$	2,522	\$	-		
Trustee/Benefits:	\$ 54,435	\$	55,533	\$	(1,098)		
Total:	\$ 700,000	\$	680,813	\$	19,187		

*Payroll has not yet cleared for the last pay period in June, as well as a few other expensed amounts in approval queues.

3. Demonstration of economic development/impact

• Patents, copyrights, Plant Variety Protection Certificates received or pending

Co-I Dr. Donna Delparte has formed a private company in Idaho called *I2IGeo* and is working to develop a commercialization pathway for her research on this grant related to the use of satellite and drone technology to assist growers in the application of nutrients, herbicides, pesticides and water.

• Private sector engagement

Because every aspect of our work involves considerable private sector engagement, we have noted those engagements in each of our five tasks described in Section 1, particularly under <u>Task E: Project</u> <u>Management/Stakeholder Engagement.</u>

• Jobs created

Several of the research assistant and all of student research assistantship positions described in the next section were newly created in Year 1 of this grant.

4. Numbers of faculty and student participation

In the Yr 2, the numbers of faculty, students and other researchers participating are as follows:

Faculty:	6	(4 UI, 1 BSU, 1 ISU)
Graduate Students:	11	(7 UI, 2 ISU; 2 BSU (both of whom are from groups
underrepresented in ST	ΓEM	fields)
Undergrad Students:	5	(UI)
Research Scientists:	2	(1 UI, 1 ISU, both partially supported by this grant)

More details on staffing, by Task:

Task A: Recovery of energy, nutrients, water and bioproducts from waste streams

Coats staffing: 2 PhD students in Environmental Engineering; 2 MS student in Environmental Engineering; 2 undergraduate students in Environmental Engineering; 2 undergraduate students in Environmental Science; 1 research scientist. 4 women, 4 men.

McDonald staffing: 1 PhD student in Environmental Science. 1 woman.

Feris staffing: Current staffing includes 2 male graduate students (both from underrepresented groups in STEM). Both graduate students were previously employed as research technicians on this project, however, by Jan 2020 both transitioned to the MS graduate program in the Biological Sciences with a Spring 2020 start date. Both students will participate in experimental development, data collection, and data analysis. We had originally targeted recruitment of additional undergraduate students (1 or 2) for the second half of year 2 to assist with laboratory and greenhouse scale experiments. However, due to the COVID-19 pandemic we decided to postpone recruitment of additional undergraduate team members. We are planning to recruit additional undergraduate team members in year 3, assuming conditions are favorable for such recruitment.

Task B: Quantifying Water/Energy Linkages

• 2 PhD students (1 in Geography, 1 in Water Resources)

Task C:

- 1 PhD students in Geosciences
- 2 summer Masters students in Geoscience
- 1 research/programming technician

5. Description of future plans for project continuation or expansion

• PI Karen Humes is a Co-Lead on the newly formed CAES Focus Area group in the Energy-Water Nexus arena. Being a CAES Focus Area lead provides some access to CAES resources, including program development funds, to build a team of CAES researchers in pursuit of establishing CAES as a global leader in research, education, and innovation related to the energy-water nexus. Team members of this project are looking forward to leveraging our

current work to pursue future opportunities. The coupling of food, water and energy is exceptionally strong in southern Idaho, from both a national and international standpoint, making a compelling case for other funding sources. Our integrated approach to water, energy and waste is also unique among teams studying the food-energy-water nexus. She and Co-I Erik Coats organized and attended a workshop at CAES in Idaho Falls on Nov 25, 2019 and are now involved in developing proposals.

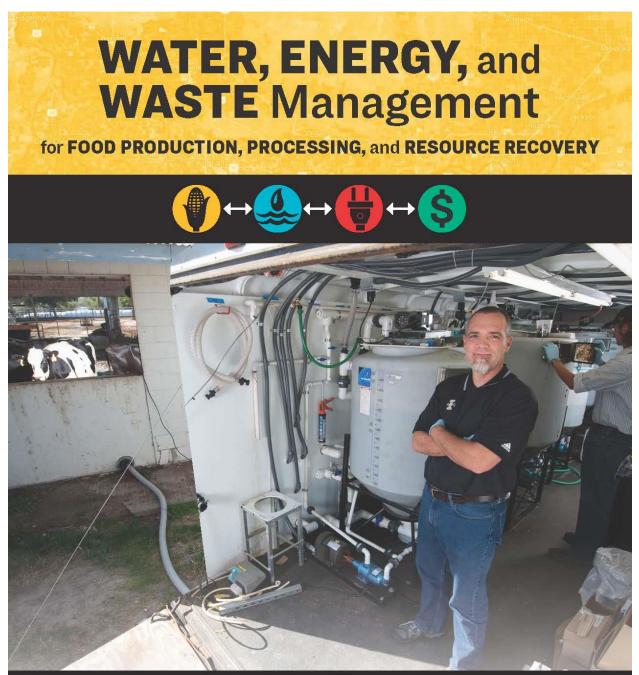
- Team members are also actively writing grants to other agencies for related work, such as the NSF, USDA and NASA. This includes a current effort led by PI Karen Humes and involving Co-I Erik Coats and 6 other UI faculty) for a graduate student training grant to NSF (the NSF Research Training Grant progam, or NRT) related to water quality and public health, with emphasis on Idaho (proposal was submitted to NSF in Feb 2020 and is currently pending). This effort includes also stakeholder partners such as IDWR, IDEQ, and the City of Boise Dept of Public Works. The NSF-NRT program is highly competitive and it would be very unusual for the proposal to be funded on the first attempt; however, if not funded, the team is dedicated to strengthening the proposal (particularly the partnerships with stakeholders) and resubmit in Feb 2021.
- PI Karen Humes submitted a proposal to UI Presidential Initiative on Water and Sustainability for seed funding to begin discussions with stakeholders for the possible formation of an Industry-University Cooperative Research Center on topics studied in this IGEM grant. The NSF supports the development of these with a process that involves a planning grant and then a full proposal the following year. The NSF goal for this program is as follows: *"The IUCRC program generates breakthrough research by enabling close and sustained engagement between industry innovators, world-class academic teams and government agencies."* We would see this as a way to institutionalize and sustain the research and industry relations developed in this grant. If successful in a full proposal, the NSF provides up to 10 yrs of base funding to establish and maintain such a center. We will also discuss this program at our SAB meeting in early July 2020.
- Co-I Erik Coats (and team leader for Task A of this grant) is a Co-I on the recently awarded 5-yr \$10M grant funded by USDA, led by the College of Agriculture and Life Science, that has among its goals the recovery of byproducts from dairy waste. Dr. Coats will ensure that progress made in the IGEM grant will be brought to bear on the USDA grant and vice-versa.

6. Expenditure reports

The expenditure reports presented in Appendix B (detailed first, then a summary by category) details the expenditures at the University of Idaho, including the amounts for paid invoices from our two contracting institutions (Idaho State University and Boise State University). Please note that that this report was run on June 30, 2020 and not all expenses from June 2020 have cleared the system, including the last payroll period that ended on June 27, 2020.

7. Commercialization Revenue

None to report yet, but the company I2IGeo (Co-I Delparte as Founder) has been formed.



Appendix A: Project Brochure Prepared for Stakeholder Engagement

WHO we are: Consortium of scientists and engineers from University of Idaho, Boise State University, Idaho State University, and Center for Advanced Energy Studies











WHY ARE WE ASKING YOU TO ENGAGE WITH US?

- You are among the leaders in Idaho food production, processing, and associated services such as
 water and waste treatment
- To gain your perspective and input on issues, challenges, and pathways for your industry
- To better understand both single-user solutions and longer-term visions for applied research on regional solutions, including efficiencies to be gained through collaboration.
- To learn about workforce preparedness gaps and how we can help fill them

WHAT we are:

- Team conducting applied research funded by Idaho State Board of Education
- Research activities focused on creative solutions in water, energy, and waste management that enhance economic and environmental bottom line for Idaho agro-industry and rural communities.

TEAM EXPERTISE -

FOR DAIRIES AND FOOD PROCESSING:

- Wastewater treatment: operations, energy efficiency, nutrient recovery, and water recycling
- Minimizing management of waste products or any other outputs parasitic to the economic bottom line
- Assisting stakeholders to diversify economic portfolio via resource recovery and retrieval of other value-added products



TEAM EXPERTISE -

FOR CROP PRODUCTION:

 Tools for utilizing satellite and drone data for optimal application of nutrients and water

TEAM EXPERTISE -

FOR ALL STAKEHOLDERS, INCLUDING STATE AND COUNTY/MUNICIPAL PLANNING:

- Quantifying the interconnection of water, energy, and waste streams in southeastern Idaho region
- Useful for planning and identifying synergies/ partnerships among stakeholders in the future

For more information, please contact Project Director Karen Humes, khumes@uidaho.edu or 208-885-6506.

FWRITEM University of Idaho Itemized Expenditures by Grant Code From 01-JUL-2019 To 30-JUN-2020

Grant: SG3587 - ISBOE IGEM FY20 Sustain Food Ind-KH 30-Jun-2020 12:04 PM Salaries E4106 Staff Brinkman, Cynthia 16040.32 884.25 hours E4108 Summer Salary Humes, Karen 17647.20 240.00 hours McDonald, Armando 11513.60 160.00 hours Ryu, Jae 3711.40 70.00 hours E4109 IA/GA Salary Abbasi, Maryam 20030.00 1000.00 hours Alfaro Salmeron, Glenda 750.00 40.00 hours 21500.00 Deyo, Brent 860.00 hours Mellin, Jason 36410.00 1000.00 hours Smoot, Lindsey 8250.00 440.00 hours Thompson, Emily 22228.40 1000.00 hours Walters, Riveraine 19497.00 780.00 hours E4175 Overtime - Covered by FLSA Brinkman, Cynthia 74.83 8.25 hours -----\$ 177652.75 Temporary/Irregular Help E4135 Temporary Student Brouillard, Nicolas 2163.00 180.50 hours Crites, Willow 2664.75 242.25 hours 2800.00 Deyo, Brent 112.00 hours Ekness, Tayler 474.38 43.75 hours Gibson, Joseph 3515.88 326.25 hours Guho, Nicholas 23446.32 848.00 hours McCormack, Roslyn 595.38 54.75 hours McLean, Carly 569.25 51.75 hours Shaber, Jonathon 1369.50 124.50 hours Smoot, Lindsey 2811.88 258.25 hours

\$ 40410.34

Fringe Benefits E4280 Faculty CFR Benefit Expense 10157.50 E4281 Staff CFR Benefit Expense 6526.59 E4282 Student CFR Fringe Expense 5748.64 _ _ _ _ _ _ _ 22432.73 \$ Travel E5360 Personal Vehicle - In-State 20-SEP-19 I2095733 Ryu, Jae H. 5.00 18-0CT-19 I2101059 Humes, Karen S.. 48.09 10-DEC-19 ZT913239 Parking 11112019 10.00 13-DEC-19 147.69 I2110710 Ryu, Jae H. E5365 Personal Vehicle - Out-of-State 07-AUG-19 I2087973 Coats, Erik Robert. 42.28 22-0CT-19 I2101614 Coats, Erik Robert. 96.82 22-0CT-19 Coats, Erik Robert. 55.00 I2101614 E5367 Rental Vehicles - In-State 12-AUG-19 ZT407009 Car Rental Fuel 07202019 60.55 12-AUG-19 ZT407009 Car Rental Fuel 07242019 44.04 12-AUG-19 ZT407009 Car Rental Fuel 07292019 26.72 Car Rental Fuel 07302019 37.88 12-AUG-19 ZT407009 12-AUG-19 I2088874 Ryu, Jae H. 520.99 20-SEP-19 ZT534237 Car Rental Fuel 08102019 27.36 ZT534237 20-SEP-19 Car Rental Fuel 08102019 60.55 Car Rental Fuel 08132019 20-SEP-19 ZT534237 63.74 20-SEP-19 ZT534237 Car Rental Fuel 08142019 27.90 20-SEP-19 ZT534294 Car Rental 09032019 230.06 ZT534294 20-SEP-19 64.79 Car Rental Fuel 08302019 20-SEP-19 ZT534294 Car Rental Fuel 08312019 29.63 20-SEP-19 ZT534294 Car Rental Fuel 09022019 16.02 20-SEP-19 I2095733 Ryu, Jae H. 53.87 Ryu, Jae H. 20-SEP-19 604.78 I2095733 18-0CT-19 I2101059 Humes, Karen S.. 181.16 18-0CT-19 I2101059 Humes, Karen S.. 2.02 10-DEC-19 252.00 I2109969 Humes, Karen S.. E5380 Airfare - In-State 18-0CT-19 I2101059 Humes, Karen S.. 58.30 18-0CT-19 I2101059 Humes, Karen S.. 284.50 10-DEC-19 Airfare 11112019 521.51 ZT913239 E5381 Airfare - Out-of-State 23-JUL-19 I2085705 Coats, Erik Robert. 478.20 23-JUL-19 I2085707 Coats, Erik Robert. 1280.00 08-0CT-19 I2098846 Ryu, Jae H. 125.00 18-DEC-19 I2111627 Ryu, Jae H. 213.10 25-MAR-20 Z1002936 McDonald A- Airfare to GA- GOT CANC 299.40 E5391 Ground Transportation - In-State I2101059 Humes, Karen S.. 38.00 18-0CT-19 E5392 Ground Transportation-Out-of-State Coats, Erik Robert. 07-AUG-19 I2087973 17.72 22-0CT-19 I2101614 Coats, Erik Robert. 278.80 18-DEC-19 ZT905632 RyuJa 905632 Uber Jae traveled to S 13.95 18-DEC-19 ZT905632 RyuJa 905632 Uber Jae traveled to S 15.26 E5396 Lodging & Per Diem ? In State 20-SEP-19 Ryu, Jae H. 49.00 I2095776 20-SEP-19 Ryu, Jae H. I2095776 23.00 Ryu, Jae H. 20-SEP-19 I2095776 49.00 18-0CT-19 I2101059 Humes, Karen S.. 26.00 18-0CT-19 Humes, Karen S.. I2101059 42.00 Humes, Karen S.. 18-0CT-19 I2101059 42.00 18-0CT-19 I2101059 Humes, Karen S.. 33.00 18-0CT-19 I2101059 Humes, Karen S.. 30.00 18-0CT-19 I2101059 Humes, Karen S.. 164.02 18-0CT-19 Humes, Karen S.. I2101059 433.07

https://vandalweb.uidaho.edu/PROD/gokoutp.P_ShowReq?pipe_name=ORA\$PIPE\$0670E92A0001&sess_id=461451069&user_name=...

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Humes, Karen S..

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10-DEC-19	I2109969	Humes, Karen S	49.00	
10-DEC-19	ZT913239	Hotel - Lodging 11132019	185.00	
10-DEC-19	ZT913239	Hotel - Lodging 11142019	178.71	
13-DEC-19	12110710	Ryu, Jae H.	49.00	
	& Per Diem ?	•	13100	
22-JUL-19	F0168715	GRT226540-CIVIL&ENV ENGINEERIN	-1526.56	
23-JUL-19	12085705	Coats, Erik Robert.	147.96	
24-JUL-19	ZT335285	Hotel - Lodging 07032019	2289.84	
07-AUG-19	12087973	Coats, Erik Robert.	56.00	
07-AUG-19	12087973	Coats, Erik Robert.	43.00	
08-0CT-19	ZT599870	Hotel - Lodging 08142019	76.61	
08-0CT-19	12098846	Ryu, Jae H.	50.00	
08-0CT-19	12098846	Ryu, Jae H.	38.00	
08-0CT-19	12098846	Ryu, Jae H.	37.05	
22-0CT-19	12101614	Coats, Erik Robert.	76.00	
22-0CT-19	12101014	Coats, Erik Robert.	76.00	
22-0CT-19	12101014	Coats, Erik Robert.	76.00	
22-0CT-19	I2101014 I2101614	Coats, Erik Robert.	76.00	
22-0CT-19	I2101014 I2101614	Coats, Erik Robert.	76.00	
18-DEC-19	I2111627	Ryu, Jae H.	33.00	
18-DEC-19	I2111627	Ryu, Jae H.	56.00	
18-DEC-19	I2111627	Ryu, Jae H.	56.00	
18-DEC-19	12111627	Ryu, Jae H.	56.00	
18-DEC-19	12111627	Ryu, Jae H.	568.54	
18-DEC-19	12111627	Ryu, Jae H.	56.00	
25-MAR-20	Z1002936	McDonald A, hotel in GA for Swanapa	381.66	
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02-MAR-20	J1265005	DS; UIB copier charge Feb 2020	0.18	
		DS; UIB copier charge Feb 2020 osts	0.18	
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E5049 Journal 25-SEP-19 E5070 Confere 24-JUL-19 24-JUL-19 24-JUL-19 26-SEP-19 01-NOV-19 18-DEC-19 11-FEB-20 25-MAR-20 07-APR-20 E5210 R&M Svc 26-MAR-20 21-APR-20 E5307 Analyti 02-OCT-19	Publication C ZT574740 nce/Registrati ZT335285 ZT335285 ZT335285 ZT335285 ZT568130 ZT748634 I2111627 Z1000753 Z1002876 Z1003527 Z1003603 s - Work Order I2126584 J1267705 cal Services J1252563	osts Professional Services 09042019 on Fees Conference Registration 07012019 Conference Registration 07092019 Conference Registration 07092019 Conference Registration 07092019 Memberships / Subscriptions / Regis Ryu, Jae H. AAG 2020 conference registration fo RyuJa 367212 Registration Grant res McDonald A-FPS International Confer 2020 AAG conference cancellation fo S Oppenheimer Development Corporation ef/CT from 826742 to 826867 MJ/GRC 1811977_Forney	25.00 615.00 -570.00 725.00 570.00 180.00 -725.00 630.00 175.00 5.00 415.00 -175.00 195.97 -195.97 860.00	
E5049 Journal 25-SEP-19 E5070 Confere 24-JUL-19 24-JUL-19 24-JUL-19 24-JUL-19 26-SEP-19 01-NOV-19 18-DEC-19 11-FEB-20 25-MAR-20 07-APR-20 E5210 R&M Svc 26-MAR-20 21-APR-20 E5307 Analyti 02-OCT-19 16-DEC-19	Publication C ZT574740 nce/Registrati ZT335285 ZT335285 ZT335285 ZT335285 ZT568130 ZT748634 I2111627 Z1000753 Z1002876 Z1003527 Z1003603 s - Work Order I2126584 J1267705 cal Services J1252563 J1260582	osts Professional Services 09042019 on Fees Conference Registration 07012019 Conference Registration 07092019 Conference Registration 07092019 Memberships / Subscriptions / Regis Memberships / Subscriptions / Regis Ryu, Jae H. AAG 2020 conference registration fo RyuJa 367212 Registration Grant res McDonald A-FPS International Confer 2020 AAG conference cancellation fo S Oppenheimer Development Corporation ef/CT from 826742 to 826867 MJ/GRC 1811977_Forney bf ASL Invoice EOCT19-003	25.00 615.00 -570.00 725.00 570.00 180.00 -725.00 630.00 175.00 5.00 415.00 -175.00 195.97 -195.97	
E5049 Journal 25-SEP-19 E5070 Confere 24-JUL-19 24-JUL-19 24-JUL-19 24-JUL-19 26-SEP-19 01-NOV-19 18-DEC-19 11-FEB-20 25-MAR-20 07-APR-20 E5210 R&M Svc 26-MAR-20 21-APR-20 E5307 Analyti 02-OCT-19 16-DEC-19 E5320 Softwar	Publication C ZT574740 nce/Registrati ZT335285 ZT335285 ZT335285 ZT335285 ZT568130 ZT748634 I2111627 Z1000753 Z1002876 Z1003527 Z1003603 s - Work Order I2126584 J1267705 cal Services J1252563 J1260582 e/Applications	osts Professional Services 09042019 on Fees Conference Registration 07012019 Conference Registration 07092019 Conference Registration 07092019 Conference Registration 07092019 Memberships / Subscriptions / Regis Memberships / Subscriptions / Regis Ryu, Jae H. AAG 2020 conference registration fo RyuJa 367212 Registration Grant res McDonald A-FPS International Confer 2020 AAG conference cancellation fo S Oppenheimer Development Corporation ef/CT from 826742 to 826867 MJ/GRC 1811977_Forney bf ASL Invoice EOCT19-003 - Individual	25.00 615.00 -570.00 725.00 570.00 180.00 -725.00 630.00 175.00 5.00 415.00 -175.00 195.97 -195.97 860.00 46.00	
E5049 Journal 25-SEP-19 E5070 Confere 24-JUL-19 24-JUL-19 24-JUL-19 24-JUL-19 26-SEP-19 01-NOV-19 18-DEC-19 11-FEB-20 25-MAR-20 07-APR-20 09-APR-20 E5210 R&M Svc 26-MAR-20 21-APR-20 E5307 Analyti 02-OCT-19 16-DEC-19 E5320 Softwar 27-AUG-19	Publication C ZT574740 nce/Registrati ZT335285 ZT335285 ZT335285 ZT335285 ZT568130 ZT748634 I2111627 Z1000753 Z1002876 Z1003527 Z1003603 s - Work Order I2126584 J1267705 cal Services J1252563 J1260582 e/Applications ZT406541	osts Professional Services 09042019 on Fees Conference Registration 07012019 Conference Registration 07092019 Conference Registration 07092019 Conference Registration 07092019 Memberships / Subscriptions / Regis Memberships / Subscriptions / Regis Ryu, Jae H. AAG 2020 conference registration fo RyuJa 367212 Registration Grant res McDonald A-FPS International Confer 2020 AAG conference cancellation fo S Oppenheimer Development Corporation ef/CT from 826742 to 826867 MJ/GRC 1811977_Forney bf ASL Invoice EOCT19-003 - Individual Supplies 07272019	25.00 615.00 -570.00 725.00 570.00 180.00 -725.00 630.00 175.00 5.00 415.00 -175.00 195.97 -195.97 860.00 46.00 129.00	
E5049 Journal 25-SEP-19 E5070 Confere 24-JUL-19 24-JUL-19 24-JUL-19 24-JUL-19 26-SEP-19 01-NOV-19 18-DEC-19 11-FEB-20 25-MAR-20 07-APR-20 09-APR-20 E5210 R&M Svc 26-MAR-20 21-APR-20 E5307 Analyti 02-OCT-19 16-DEC-19 E5320 Softwar 27-AUG-19 26-JUN-20	Publication C ZT574740 nce/Registrati ZT335285 ZT335285 ZT335285 ZT335285 ZT568130 ZT748634 I2111627 Z1000753 Z1002876 Z1003527 Z1003603 s - Work Order I2126584 J1267705 cal Services J1252563 J1260582 e/Applications ZT406541 I2138310	osts Professional Services 09042019 on Fees Conference Registration 07012019 Conference Registration 07092019 Conference Registration 07092019 Conference Registration 07092019 Memberships / Subscriptions / Regis Memberships / Subscriptions / Regis Ryu, Jae H. AAG 2020 conference registration fo RyuJa 367212 Registration Grant res McDonald A-FPS International Confer 2020 AAG conference cancellation fo S Oppenheimer Development Corporation ef/CT from 826742 to 826867 MJ/GRC 1811977_Forney bf ASL Invoice EOCT19-003 - Individual Supplies 07272019 Oregon Education Technology Consort	25.00 615.00 -570.00 725.00 570.00 180.00 -725.00 630.00 175.00 5.00 415.00 -175.00 195.97 -195.97 860.00 46.00 129.00 107.88	
E5049 Journal 25-SEP-19 E5070 Confere 24-JUL-19 24-JUL-19 24-JUL-19 24-JUL-19 26-SEP-19 01-NOV-19 18-DEC-19 11-FEB-20 25-MAR-20 07-APR-20 09-APR-20 E5210 R&M Svc 26-MAR-20 21-APR-20 E5307 Analyti 02-OCT-19 16-DEC-19 E5320 Softwar 27-AUG-19 26-JUN-20 30-JUN-20	Publication C ZT574740 nce/Registrati ZT335285 ZT335285 ZT335285 ZT335285 ZT568130 ZT748634 I2111627 Z1000753 Z1002876 Z1003527 Z1003603 s - Work Order I2126584 J1267705 cal Services J1252563 J1260582 e/Applications ZT406541 I2138310 B1835767	osts Professional Services 09042019 on Fees Conference Registration 07012019 Conference Registration 07092019 Conference Registration 07092019 Conference Registration 07092019 Memberships / Subscriptions / Regis Nemberships / Subscriptions / Regis Ryu, Jae H. AAG 2020 conference registration fo RyuJa 367212 Registration Grant res McDonald A-FPS International Confer 2020 AAG conference cancellation fo S Oppenheimer Development Corporation ef/CT from 826742 to 826867 MJ/GRC 1811977_Forney bf ASL Invoice EOCT19-003 - Individual Supplies 07272019 Oregon Education Technology Consort Oregon Education Technology Consort	25.00 615.00 -570.00 725.00 570.00 180.00 -725.00 630.00 175.00 5.00 415.00 -175.00 195.97 -195.97 860.00 46.00 129.00	
E5049 Journal 25-SEP-19 E5070 Confere 24-JUL-19 24-JUL-19 24-JUL-19 24-JUL-19 26-SEP-19 01-NOV-19 18-DEC-19 11-FEB-20 25-MAR-20 07-APR-20 09-APR-20 E5210 R&M Svc 26-MAR-20 21-APR-20 E5307 Analyti 02-OCT-19 16-DEC-19 E5320 Softwar 27-AUG-19 26-JUN-20 30-JUN-20	Publication C ZT574740 nce/Registrati ZT335285 ZT335285 ZT335285 ZT335285 ZT568130 ZT748634 I2111627 Z1000753 Z1002876 Z1003527 Z1003603 s - Work Order I2126584 J1267705 cal Services J1252563 J1260582 e/Applications ZT406541 I2138310 B1835767	osts Professional Services 09042019 on Fees Conference Registration 07012019 Conference Registration 07092019 Conference Registration 07092019 Memberships / Subscriptions / Regis Memberships / Subscriptions / Regis Ryu, Jae H. AAG 2020 conference registration fo RyuJa 367212 Registration Grant res McDonald A-FPS International Confer 2020 AAG conference cancellation fo S Oppenheimer Development Corporation ef/CT from 826742 to 826867 MJ/GRC 1811977_Forney bf ASL Invoice EOCT19-003 - Individual Supplies 07272019 Oregon Education Technology Consort Oregon Education Technology Consort - College/Dep	25.00 615.00 -570.00 725.00 570.00 180.00 -725.00 630.00 175.00 5.00 415.00 -175.00 195.97 -195.97 860.00 46.00 129.00 107.88 0.00	
E5049 Journal 25-SEP-19 E5070 Confere 24-JUL-19 24-JUL-19 24-JUL-19 24-JUL-19 26-SEP-19 01-NOV-19 18-DEC-19 11-FEB-20 25-MAR-20 07-APR-20 09-APR-20 E5210 R&M Svc 26-MAR-20 21-APR-20 E5307 Analyti 02-OCT-19 16-DEC-19 E5320 Softwar 27-AUG-19 26-JUN-20 30-JUN-20	Publication C ZT574740 nce/Registrati ZT335285 ZT335285 ZT335285 ZT335285 ZT568130 ZT748634 I2111627 Z1000753 Z1002876 Z1003527 Z1003603 s - Work Order I2126584 J1267705 cal Services J1252563 J1260582 e/Applications ZT406541 I2138310 B1835767	osts Professional Services 09042019 on Fees Conference Registration 07012019 Conference Registration 07092019 Conference Registration 07092019 Conference Registration 07092019 Memberships / Subscriptions / Regis Nemberships / Subscriptions / Regis Ryu, Jae H. AAG 2020 conference registration fo RyuJa 367212 Registration Grant res McDonald A-FPS International Confer 2020 AAG conference cancellation fo S Oppenheimer Development Corporation ef/CT from 826742 to 826867 MJ/GRC 1811977_Forney bf ASL Invoice EOCT19-003 - Individual Supplies 07272019 Oregon Education Technology Consort Oregon Education Technology Consort	25.00 615.00 -570.00 725.00 570.00 180.00 -725.00 630.00 175.00 5.00 415.00 -175.00 195.97 -195.97 860.00 46.00 129.00 107.88	
E5049 Journal 25-SEP-19 E5070 Confere 24-JUL-19 24-JUL-19 24-JUL-19 24-JUL-19 26-SEP-19 01-NOV-19 18-DEC-19 11-FEB-20 25-MAR-20 07-APR-20 09-APR-20 E5210 R&M Svc 26-MAR-20 21-APR-20 E5307 Analyti 02-OCT-19 16-DEC-19 E5320 Softwar 27-AUG-19 26-JUN-20 30-JUN-20 E5330 Softwar	Publication C ZT574740 nce/Registrati ZT335285 ZT335285 ZT335285 ZT335285 ZT335285 ZT568130 ZT748634 I2111627 Z1000753 Z1002876 Z1003527 Z1003603 s - Work Order I2126584 J1267705 cal Services J1252563 J1260582 e/Applications ZT406541 I2138310 B1835767 e/Applications	osts Professional Services 09042019 on Fees Conference Registration 07012019 Conference Registration 07092019 Conference Registration 07092019 Memberships / Subscriptions / Regis Memberships / Subscriptions / Regis Ryu, Jae H. AAG 2020 conference registration fo RyuJa 367212 Registration Grant res McDonald A-FPS International Confer 2020 AAG conference cancellation fo S Oppenheimer Development Corporation ef/CT from 826742 to 826867 MJ/GRC 1811977_Forney bf ASL Invoice EOCT19-003 - Individual Supplies 07272019 Oregon Education Technology Consort Oregon Education Technology Consort - College/Dep	25.00 615.00 -570.00 725.00 570.00 180.00 -725.00 630.00 175.00 5.00 415.00 -175.00 195.97 -195.97 860.00 46.00 129.00 107.88 0.00	
E5049 Journal 25-SEP-19 E5070 Confere 24-JUL-19 24-JUL-19 24-JUL-19 24-JUL-19 26-SEP-19 01-NOV-19 18-DEC-19 11-FEB-20 25-MAR-20 07-APR-20 09-APR-20 E5210 R&M Svc 26-MAR-20 21-APR-20 E5307 Analyti 02-OCT-19 16-DEC-19 E5320 Softwar 27-AUG-19 26-JUN-20 30-JUN-20 E5330 Softwar 24-JUL-19	Publication C ZT574740 nce/Registrati ZT335285 ZT335285 ZT335285 ZT335285 ZT335285 ZT568130 ZT748634 I2111627 Z1000753 Z1002876 Z1003527 Z1003603 s - Work Order I2126584 J1267705 cal Services J1252563 J1260582 e/Applications ZT406541 I2138310 B1835767 e/Applications I2086054	osts Professional Services 09042019 on Fees Conference Registration 07012019 Conference Registration 07092019 Conference Registration 07092019 Memberships / Subscriptions / Regis Memberships / Subscriptions / Regis Ryu, Jae H. AAG 2020 conference registration fo RyuJa 367212 Registration Grant res McDonald A-FPS International Confer 2020 AAG conference cancellation fo S Oppenheimer Development Corporation ef/CT from 826742 to 826867 MJ/GRC 1811977_Forney bf ASL Invoice EOCT19-003 - Individual Supplies 07272019 Oregon Education Technology Consort Oregon Education Technology Consort - College/Dep Ryu, Jae H.	25.00 615.00 -570.00 725.00 570.00 180.00 -725.00 630.00 175.00 5.00 415.00 -175.00 195.97 -195.97 860.00 46.00 129.00 107.88 0.00 799.00	
E5049 Journal 25-SEP-19 E5070 Confere 24-JUL-19 24-JUL-19 24-JUL-19 24-JUL-19 26-SEP-19 01-NOV-19 18-DEC-19 11-FEB-20 25-MAR-20 07-APR-20 09-APR-20 E5210 R&M SvC 26-MAR-20 21-APR-20 E5307 Analyti 02-OCT-19 16-DEC-19 E5320 Softwar 27-AUG-19 26-JUN-20 E5330 Softwar 24-JUL-19 14-AUG-19	Publication C ZT574740 nce/Registrati ZT335285 ZT335285 ZT335285 ZT335285 ZT568130 ZT748634 I2111627 Z1000753 Z1002876 Z1003527 Z1003603 s - Work Order I2126584 J1267705 cal Services J1252563 J1260582 e/Applications ZT406541 I2138310 B1835767 e/Applications I2086054 ZT401299	osts Professional Services 09042019 on Fees Conference Registration 07012019 Conference Registration 07092019 Conference Registration 07092019 Memberships / Subscriptions / Regis Memberships / Subscriptions / Regis Ryu, Jae H. AAG 2020 conference registration fo RyuJa 367212 Registration Grant res McDonald A-FPS International Confer 2020 AAG conference cancellation fo S Oppenheimer Development Corporation ef/CT from 826742 to 826867 MJ/GRC 1811977_Forney bf ASL Invoice EOCT19-003 - Individual Supplies 07272019 Oregon Education Technology Consort Oregon Education Technology Consort - College/Dep Ryu, Jae H. Supplies 07032019	25.00 615.00 -570.00 725.00 570.00 180.00 -725.00 630.00 175.00 175.00 195.97 -195.97 860.00 46.00 129.00 107.88 0.00 799.00 19.15	
E5049 Journal 25-SEP-19 E5070 Confere 24-JUL-19 24-JUL-19 24-JUL-19 24-JUL-19 26-SEP-19 01-NOV-19 18-DEC-19 11-FEB-20 25-MAR-20 07-APR-20 09-APR-20 E5210 R&M SvC 26-MAR-20 21-APR-20 E5307 Analyti 02-OCT-19 16-DEC-19 E5320 Softwar 27-AUG-19 26-JUN-20 30-JUN-20 E5330 Softwar 24-JUL-19 14-AUG-19	Publication C ZT574740 nce/Registrati ZT335285 ZT335285 ZT335285 ZT335285 ZT568130 ZT748634 I2111627 Z1000753 Z1002876 Z1003527 Z1003603 s - Work Order I2126584 J1267705 cal Services J1252563 J1260582 e/Applications ZT406541 I2138310 B1835767 e/Applications I2086054 ZT401299 ZT401299	osts Professional Services 09042019 on Fees Conference Registration 07012019 Conference Registration 07092019 Conference Registration 07092019 Memberships / Subscriptions / Regis Memberships / Subscriptions / Regis Ryu, Jae H. AAG 2020 conference registration fo RyuJa 367212 Registration Grant res McDonald A-FPS International Confer 2020 AAG conference cancellation fo S Oppenheimer Development Corporation ef/CT from 826742 to 826867 MJ/GRC 1811977_Forney bf ASL Invoice EOCT19-003 - Individual Supplies 07272019 Oregon Education Technology Consort Oregon Education Technology Consort - College/Dep Ryu, Jae H. Supplies 07032019 Supplies 07172019	25.00 615.00 -570.00 725.00 570.00 180.00 -725.00 630.00 175.00 175.00 195.97 -195.97 860.00 46.00 129.00 107.88 0.00 799.00 19.15 15.99	
E5049 Journal 25-SEP-19 E5070 Confere 24-JUL-19 24-JUL-19 24-JUL-19 24-JUL-19 26-SEP-19 01-NOV-19 18-DEC-19 11-FEB-20 25-MAR-20 07-APR-20 09-APR-20 E5210 R&M SvC 26-MAR-20 21-APR-20 E5307 Analyti 02-OCT-19 16-DEC-19 E5320 Softwar 27-AUG-19 26-JUN-20 30-JUN-20 E5330 Softwar 24-JUL-19 14-AUG-19 12-SEP-19	Publication C ZT574740 nce/Registrati ZT335285 ZT335285 ZT335285 ZT335285 ZT568130 ZT748634 I2111627 Z1000753 Z1002876 Z1003527 Z1003603 s - Work Order I2126584 J1267705 cal Services J1252563 J1260582 e/Applications ZT406541 I2138310 B1835767 e/Applications I2086054 ZT401299 ZT401299 ZT401299 ZT511342	osts Professional Services 09042019 on Fees Conference Registration 07012019 Conference Registration 07092019 Conference Registration 07092019 Memberships / Subscriptions / Regis Memberships / Subscriptions / Regis Ryu, Jae H. AAG 2020 conference registration fo RyuJa 367212 Registration Grant res McDonald A-FPS International Confer 2020 AAG conference cancellation fo S Oppenheimer Development Corporation ef/CT from 826742 to 826867 MJ/GRC 1811977_Forney bf ASL Invoice EOCT19-003 - Individual Supplies 07272019 Oregon Education Technology Consort Oregon Education Technology Consort - College/Dep Ryu, Jae H. Supplies 07032019 Supplies 07172019 Supplies 07172019 Supplies 07172019 Supplies 08032019	25.00 615.00 -570.00 725.00 570.00 180.00 -725.00 630.00 175.00 175.00 195.97 -195.97 860.00 46.00 129.00 107.88 0.00 799.00 19.15 15.99 19.99	
E5049 Journal 25-SEP-19 E5070 Confere 24-JUL-19 24-JUL-19 24-JUL-19 24-JUL-19 26-SEP-19 01-NOV-19 18-DEC-19 11-FEB-20 25-MAR-20 07-APR-20 09-APR-20 E5210 R&M SvC 26-MAR-20 21-APR-20 E5307 Analyti 02-OCT-19 16-DEC-19 E5320 Softwar 27-AUG-19 26-JUN-20 30-JUN-20 E5330 Softwar 24-JUL-19 14-AUG-19 12-SEP-19 12-SEP-19	Publication C ZT574740 nce/Registrati ZT335285 ZT335285 ZT335285 ZT335285 ZT568130 ZT748634 I2111627 Z1000753 Z1002876 Z1003527 Z1003603 s - Work Order I2126584 J1267705 cal Services J1252563 J1260582 e/Applications ZT406541 I2138310 B1835767 e/Applications I2086054 ZT401299 ZT401299 ZT401299 ZT511342 ZT514946	osts Professional Services 09042019 on Fees Conference Registration 07012019 Conference Registration 07092019 Conference Registration 07092019 Memberships / Subscriptions / Regis Memberships / Subscriptions / Regis Ryu, Jae H. AAG 2020 conference registration fo RyuJa 367212 Registration Grant res McDonald A-FPS International Confer 2020 AAG conference cancellation fo S Oppenheimer Development Corporation ef/CT from 826742 to 826867 MJ/GRC 1811977_Forney bf ASL Invoice EOCT19-003 - Individual Supplies 07272019 Oregon Education Technology Consort Oregon Education Technology Consort - College/Dep Ryu, Jae H. Supplies 07032019 Supplies 07172019 Supplies 08032019 Supplies 08032019 Supplies 08032019 Supplies 08272019	25.00 615.00 -570.00 725.00 570.00 180.00 -725.00 630.00 175.00 175.00 195.97 -195.97 860.00 46.00 129.00 107.88 0.00 799.00 19.15 15.99 19.99 19.99 129.00	

6/30/2020 https://var	ndalweb.uidaho.edu	/PROD/gokoutp.P_ShowReq?pipe_name=ORA\$PIPE\$067	0E92A0001&sess_id=461451069&user_name=
E5410 Office ar	nd Administrat	tive Supplies	
04-DEC-19	ZT859061	Supplies 11122019	88.34
17-JAN-20	ZT159595	Charge for tonor cartridge. Linda M	120.64
E5430 Consumabl			
08-AUG-19	12088020	Culligan Water Conditioning	29.95
E5465 Gasoline	77401200	University Vehicle Expenses 0701201	12 24
14-AUG-19 14-AUG-19	ZT401299 ZT401299	University Vehicle Expenses 0701201	42.34 40.31
E5560 Technolog		University venicle Expenses 0/15201	40.91
09-AUG-19	I2088550	Ryu, Jae H.	476.96
04-SEP-19	ZT498840	Supplies 08122019	62.99
30-0CT-19	ZT730095	Supplies 10152019	33.99
18-FEB-20	Z1001008	Charge for power cord for SC 200 Co	12.14
E5710 Tools	77 404 000		407.05
14-AUG-19	ZT401299	Supplies 07042019	107.25
14-AUG-19	ZT401299	Supplies 07112019	38.03
E5724 Research 18-JUL-19	ZT303097	Supplies 07032019	1613.10
18-JUL-19	ZT303097	Supplies 07052019	11.94
18-JUL-19	ZT303097	Supplies 07062019	98.17
18-JUL-19	ZT303097	Supplies 07072019	11.74
18-JUL-19	ZT303097	Supplies 07092019	396.00
18-JUL-19	ZT303097	Supplies 07092019	18.00
18-JUL-19	ZT303097	Supplies 07102019	166.30
18-JUL-19	ZT303097	Supplies 07112019	91.62
23-JUL-19	12085701	Ryu, Jae H.	271.08
02-AUG-19	ZT335026	Supplies 07032019	420.44
02-AUG-19 02-AUG-19	ZT335026 ZT335026	Supplies 07102019 Supplies 07102019	1704.66 69.54
02-AUG-19	ZT335026	Supplies 07122019	75.80
02-AUG-19	ZT335026	Supplies 07132019	52.28
02-AUG-19	ZT335026	Supplies 07162019	169.80
02-AUG-19	ZT335026	Supplies 07162019	30.26
02-AUG-19	ZT335026	Supplies 07172019	13.75
02-AUG-19	ZT335026	Supplies 07222019	29.98
02-AUG-19	ZT335026	Supplies 07242019	320.62
02-AUG-19	ZT335026	Supplies 07242019	327.90
02-AUG-19 07-AUG-19	ZT335026 ZT381455	Supplies 07252019 Agriculture and Medical Supplies 07	701.46 18.08
14-AUG-19	ZT401299	Supplies 06262019	5.99
14-AUG-19	ZT401299	Supplies 06272019	94.80
14-AUG-19	ZT401299	Supplies 07022019	92.91
14-AUG-19	ZT401299	Supplies 07022019	9.24
14-AUG-19	ZT401299	Supplies 07082019	39.94
14-AUG-19	ZT401299	Supplies 07112019	189.74
14-AUG-19	ZT401299	Supplies 07142019	217.28
14-AUG-19	ZT401299	Supplies 07192019	156.86
15-AUG-19	ZT402367	Supplies 07192019 Supplies 07272019	61.57 69.54
15-AUG-19 15-AUG-19	ZT402367 ZT402367	Supplies 07272019 Supplies 07272019	48.02
15-AUG-19	ZT402367	Supplies 08012019	185.84
15-AUG-19	ZT402367	Supplies 08012019	53.10
15-AUG-19	ZT402367	Supplies 08022019	-53.10
15-AUG-19	ZT402367	Supplies 08052019	28.45
15-AUG-19	ZT402367	Supplies 08062019	13.94
15-AUG-19	ZT402367	Supplies 08072019	32.44
15-AUG-19	ZT402367	Supplies 08082019	13.98
15-AUG-19	ZT402367	Supplies 08082019	250.82
15-AUG-19	ZT402367	Supplies 08082019 Supplies 07292019	334.67
27-AUG-19 27-AUG-19	ZT406541 ZT406541	Supplies 07292019 Supplies 07292019	7.41 28.93
04-SEP-19	ZT498840	Agriculture and Medical Supplies 08	36.10
04-SEP-19	ZT498840	Supplies 08072019	9.65
12-SEP-19	ZT511342	Supplies 08032019	4.55
12-SEP-19	ZT511342	Supplies 08032019	217.94

0/30/2020	nups.//vanua		ROD/gokout	D.F_SHOWREd Pipe_Hame=ORA&FIFE&00	070E92A0001&Sess_Id=40	51451009&usel_name=
12-SI	EP-19	ZT511342	Supplies	08052019	5.29	
				08102019	113.20	
				08132019	197.90	
		ZT470567		08132019	79.82	
		ZT470567		08142019	65.08	
				08142019	54.04	
				08152019	149.99	
				08162019	32.26	
		ZT470567		08172019	1046.30	
		ZT470567		08182019	1700.00	
		ZT470567		08182019	82.51	
		ZT470567		08212019	38.35	
		ZT470567		08212019	55.97	
		ZT470567		08222019	216.16	
				08272019 08202019	188.66 89.90	
				08222019	229.00	
		ZT514946 ZT514946		08262019	229.00	
		ZT536932		09032019	487.72	
		ZT536932		09042019	182.70	
		ZT536932		09052019	456.23	
		ZT574740		09032019	88.77	
				09082019	81.80	
				09092019	62.95	
		ZT574740		09102019	51.94	
		ZT574740		09102019	28.39	
		ZT574740		09102019	49.69	
		ZT574740		09112019	211.89	
		ZT574740		09132019	102.25	
		12097494	Ryu, Jae		3120.00	
				Water Conditioning	29.95	
07-00	СТ-19	ZT582328	Supplies	09092019	75.00	
07-00	СТ-19	ZT582328	Supplies	09092019	1.42	
07-00	CT-19	ZT582328	Supplies	09092019	4.50	
07-00	CT-19	ZT582328		09092019	28.26	
		ZT582328		09112019	166.30	
		ZT582328		09122019	157.46	
		ZT582328		09132019	21.60	
		ZT582328		09132019	81.64	
		ZT582328		09132019	66.68	
		ZT582328		09202019	173.07	
		ZT582328		09212019	75.80	
		ZT631422		09212019	3244.50	
		ZT631422		09242019	283.86	
		ZT631422		09272019	2154.25	
		ZT631422 ZT631422		09272019 10012019	-3244.50 17.40	
		ZT631422		10022019	396.00	
				are and Medical Supplies 09	18.50	
		ZT638339		09192019	56.82	
		ZT638339		09232019	7.40	
		ZT638339		09232019	4.79	
		ZT748634		10082019	446.27	
		ZT748634		10182019	377.25	
		ZT748634		10222019	266.80	
				Water Conditioning	29.95	
		ZT811408		10282019	70.56	
		ZT811408		10292019	41.98	
		ZT811408		10302019	147.50	
18-NC	OV-19	ZT811408	Supplies	11012019	187.34	
04-DE	EC-19	ZT900954		11042019	8.99	
04-DE	EC-19	ZT900954		11072019	6.63	
04-DE	EC-19	ZT900954		11132019	461.22	
		ZT900954		11152019	137.09	
04-DE	EC-19	ZT900954	Supplies	11152019	1096.36	

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0/30/2020 https://va		u/FROD/gokoulp.F_ShowRed?pipe_hame=ORA\$FIFE\$007	0E92A0001&Sess_10=4014	51009&usel_name
04-DEC-19	ZT900954	Supplies 11162019	91.62	
06-DEC-19	I2109475	Culligan Water Conditioning	29.95	
09-DEC-19	J1260116	KRE-H; Phys Mchn shp wrk A McDonald	87.79	
11-DEC-19	ZT907694	Supplies 11032019	77.15	
11-DEC-19	ZT907694	Supplies 11112019	178.17	
18-DEC-19	ZT030436	McDonald A purchased o-rings and co	12.88	
18-DEC-19	ZT030436	McDonald, A purchased research supp	40.32	
18-DEC-19	ZT852583	McDonald A purchased lab supplies.	24.92	
18-DEC-19	ZT852583	McDonald A purchased lab supplies:	13.60	
18-DEC-19	ZT852583	McDonald A purchased lab supplies:	6.78	
18-DEC-19	ZT852583	McDonald Armando purhcased CHECK IN	254.41	
18-DEC-19	ZT852583	McDonald purchased instrument pans Charge for aluminum dish fluted 144	230.00	
18-DEC-19 18-DEC-19	ZT987942 ZT987942	Charge for high pressure and specia	101.50 54.60	
18-DEC-19 18-DEC-19	ZT987942	Charge for new digital ORP sensor,	1123.63	
20-DEC-19	ZT923142	USB drives for data backup on the S	65.97	
03-JAN-20	ZT080545	Charge for Tryptic Soy Broth 25 Gal	44.87	
10-JAN-20	I2113862	Culligan Water Conditioning	29.95	
15-JAN-20	J1262127	KRE-H; Phys Mchn Shp: evap dishes	225.72	
17-JAN-20	ZT000328	RyuJa 000328 Amazon Grant research	181.14	
17-JAN-20	ZT000328	RyuJa 000328 Amazon Grant research	74.18	
17-JAN-20	ZT000328	RyuJa 000328 Amazon Grant research	102.56	
17-JAN-20	ZT000328	RyuJa 000328 Amazon Grant research	158.99	
17-JAN-20	ZT104789	MCDonald A purchased sleeve for res	105.44	
17-JAN-20	ZT104789	McDonald A purchased Dimethyl carbo	157.51	
17-JAN-20	ZT104789	McDonald A purchased flow restricto	18.94	
17-JAN-20	ZT104789	McDonald, A purchased a spooler for	28.65	
17-JAN-20	ZT159595	Charge for chemicals for research 1	57.42	
17-JAN-20	ZT159595	Charge for cylinders, specialty gas	47.40	
17-JAN-20	ZT159595	Charge for new (used) controller fo	135.40	
24-JAN-20	ZT225464	McDonald A purchased BETAINE, ANHYD	90.07	
24-JAN-20	ZT225464	McDonald A purchased CENT BOTTLE 25	204.69	
05-FEB-20	I2118261	Culligan Water Conditioning	29.95	
05-FEB-20	Z1000337	Charge for a new HACH controller fo	599.99	
05-FEB-20	Z1000337	Charge for fuses for lab pumps used	7.79	
06-FEB-20	Z1000416	RyuJa 182074 Amazon Grant research	13.08	
06-FEB-20	Z1000416	RyuJa 182074 Amazon Grant research	161.38	
06-FEB-20	Z1000416	RyuJa 182074 Amazon Grant research	242.74	
10-FEB-20	Z1000606	RyuJa 231435 Amazon Grant research	60.16	
10-FEB-20	Z1000606	RyuJa 231435 Amazon Grant research	103.68	
10-FEB-20	Z1000606	RyuJa 231435 Amazon Grant research	244.55	
10-FEB-20	Z1000606	RyuJa 231435 Amazon Grant research	51.77	
10-FEB-20	Z1000606	RyuJa 231435 Amazon Grant research	11.65	
10-FEB-20	Z1000606	RyuJa 231435 Amazon Grant research	9.57	
10-FEB-20	Z1000606	RyuJa 231435 Amazon Grant research	117.25	
10-FEB-20	Z1000606	RyuJa 231435 Amazon Grant research	9.56	
10-FEB-20	Z1000606	RyuJa 231435 Amazon Grant research	84.59	
10-FEB-20	Z1000606	RyuJa 231435 Amazon Grant research	-44.51	
10-FEB-20	Z1000606	RyuJa 231435 Amazon Grant research	192.95	
10-FEB-20	Z1000606	RyuJa 231435 Amazon Grant research RyuJa 231435 Amazon Grant research	5.67	
10-FEB-20	Z1000606		10.39	
10-FEB-20 10-FEB-20	Z1000606 Z1000606	RyuJa 231435 Amazon Grant research RyuJa 231435 Amazon Grant research	21.73 93.21	
10-FEB-20	Z1000606	RyuJa 231435 Amazon Grant research	25.43	
10-FEB-20	Z1000606	RyuJa 231435 Amazon Grant research	9.53	
10-FEB-20	Z1000606	RyuJa 231435 Amazon Grant research	23.58	
10-FEB-20	Z1000606	RyuJa 231435 Amazon Grant research	76.30	
10-FEB-20	Z1000606	RyuJa 231435 Amazon Grant research	-242.74	
10-FEB-20	Z1000606	RyuJa 231435 Amazon Grant research	119.44	
10-FEB-20	Z1000606	RyuJa 231435 Amazon Grant research	50.31	
10-FEB-20	Z1000606	RyuJa 231435 Amazon Grant research	18.95	
10-FEB-20	Z1000606	RyuJa 231435 Home Depot Grant resea	157.57	
10-FEB-20	Z1000606	RyuJa 231435 Home Depot Grant resea	43.82	
10-FEB-20	Z1000606	RyuJa 231435 Paypal Grant research	217.56	
18-FEB-20	Z1000988	Armando: 25mL autoclave reactors fo	70.00	

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18-FEB-20	Z1000988	McDonald: Fuses for lab instruments	6.49
18-FEB-20	Z1001008	Charge for PC primers to evaluate b	36.38
18-FEB-20	Z1001008	Charge for cylinders, specialty gas	461.23
18-FEB-20	Z1001008	Charge for new syringes for Erik's	964.58
18-FEB-20	Z1001008	Charge for nitrile exam gloves, pip	1498.11
18-FEB-20	Z1001008	Charge for reagent set ammonia and	1759.50
18-FEB-20	I2120138	McDonald, Armando Gabriel.	9.90
02-MAR-20	B1825956	McDonald, Armando G.	-9.90
04-MAR-20	I2123028	Ryu, Jae H.	1796.52
05-MAR-20	Z1001838	Charge for new caps for ammonia/nit	1733.49
05-MAR-20 05-MAR-20	Z1001838 Z1001838	Charge for pipette tips used to pro Charge for silicone treadmill belt	82.80
12-MAR-20	Z1002318	Charge for 96 well plates for qPCR	12.25 455.44
12-MAR-20	Z1002318	Charge for adhesive qPCR film, alum	229.81
12-MAR-20	Z1002318	Charge for connective wire, groundi	16.76
12-MAR-20	Z1002318	Charge for cylinders, specialty gas	195.63
18-MAR-20	Z1002545	McDonald A, Chemical Resistant O-ri	22.85
18-MAR-20	Z1002545	McDonald A, pump head for research	96.27
18-MAR-20	Z1002545	McDonald, A- vacuum pump for lab an	649.00
18-MAR-20	Z1002545	McDonald: PTFE STIRRER ANCHOR 500L	58.58
18-MAR-20	Z1002571	McDonald: STANDARD TRNS PIPETS 5ML	13.53
18-MAR-20	Z1002571	McDonald: VIAL SCINT 20ML GLASS 500	230.27
25-MAR-20	Z1002876	RyuJa 367212 Amazon Grant research	17.16
25-MAR-20	Z1002876	RyuJa 367212 Amazon Grant research	144.06
25-MAR-20	Z1002876	RyuJa 367212 Amazon Grant research	227.88
25-MAR-20	Z1002876	RyuJa 367212 Amazon Grant research	37.48
25-MAR-20	Z1002876	RyuJa 367212 Amazon Grant research	185.46
25-MAR-20	Z1002876	RyuJa 367212 Amazon Grant research	22.03
25-MAR-20 25-MAR-20	Z1002876	RyuJa 367212 Amazon Grant research	232.27 8.22
25-MAR-20 25-MAR-20	Z1002876 Z1002876	RyuJa 367212 Amazon Grant research RyuJa 367212 Amazon Grant research	21.19
25-MAR-20	Z1002876	RyuJa 367212 Amazon Grant research	25.42
25-MAR-20	Z1002876	RyuJa 367212 Amazon Grant research	10.59
25-MAR-20	Z1002876	RyuJa 367212 Amazon Grant research	164.79
25-MAR-20	Z1002876	RyuJa 367212 Amazon Grant research	211.99
25-MAR-20	Z1002876	RyuJa 367212 Amazon Grant research	8.94
25-MAR-20	Z1002876	RyuJa 367212 Amazon Grant research	8.94
25-MAR-20	Z1002876	RyuJa 367212 Facebook Grant researc	23.82
25-MAR-20	Z1002876	RyuJa 367212 Home Depot Grant resea	36.72
25-MAR-20	Z1002876	RyuJa 367212 USAQUADCOPT EBAY Grant	73.62
25-MAR-20	I2126495	Ryu, Jae H.	697.94
01-APR-20	Z1003304	RyuJa 400924 Amazon Grant research	77.73
01-APR-20	Z1003304	RyuJa 400924 Amazon Grant research	55.07
01-APR-20 01-APR-20	Z1003304 Z1003304	RyuJa 400924 Amazon Grant research RyuJa 400924 Amazon Grant research	124.00 20.13
01-APR-20	Z1003304	RyuJa 400924 Amazon Grant research	234.95
01-APR-20	Z1003304	RyuJa 400924 Amazon Grant research	26.81
01-APR-20	Z1003304	RyuJa 400924 Home Depot Grant resea	73.80
01-APR-20	Z1003304	RyuJa 400924 Paypal Grant research	140.00
01-APR-20	Z1003304	RyuJa 400924 Paypal Grant research	168.32
01-APR-20	Z1003304	RyuJa 400924 Paypal Grant research	100.00
01-APR-20	Z1003357	RyuJa 514304 Amazon Grant research	8.25
01-APR-20	Z1003357	RyuJa 514304 Amazon Grant research	16.78
01-APR-20	Z1003357	RyuJa 514304 Amazon Grant research	17.96
01-APR-20	Z1003357	RyuJa 514304 Amazon Grant research	44.86
01-APR-20	Z1003357	RyuJa 514304 Amazon Grant research	57.91
01-APR-20	Z1003357	RyuJa 514304 Home Depot Grant resea	131.24
01-APR-20	Z1003357	RyuJa 514304 Home Depot Grant resea	139.85
01-APR-20 01-APR-20	Z1003357	RyuJa 514304 Home Depot Grant resea RyuJa 514304 Paypal Grant research	74.79
01-APR-20 01-APR-20	Z1003357 Z1003357	RyuJa 514304 Paypal Grant research RyuJa 514304 Verizon Grant research	226.80 166.85
01-APR-20 07-APR-20	Z1003527	McDonald A- 3V power supply for re	6.35
07-APR-20	Z1003527	McDonald A- LCD display for researc	6.39
07-APR-20	Z1003527	McDonald A- Mini reflector bulb gua	7.07
07-APR-20	Z1003527	McDonald A- PTFE stirrer anchor for	54.13
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07-APR-20	Z1003527	McDonald A- bread board for resear	5.99
07-APR-20	Z1003527	McDonald A- breadboard jumper cable	7.99
07-APR-20	Z1003527	McDonald A- clamp assembly for rese	68.00
07-APR-20	Z1003527	McDonald A- hands on primer-monitor	15.99
07-APR-20	Z1003527	McDonald A- lab supplies for resear	43.35
07-APR-20	Z1003527	McDonald A- pi4 touchscreen for res McDonald A- sensor board for resear	19.99 6.99
07-APR-20 07-APR-20	Z1003527 Z1003527	McDonald A- sensor for research	6.48
07-APR-20	Z1003527 Z1003527	McDonald A- soil sensor for research	14.87
07-APR-20	Z1003527	McDonald, A- CO2 gas sensors for re	296.59
07-APR-20	Z1003527	McDonald, A- Mega v-3 shield for la	27.00
07-APR-20	Z1003527	McDonald, A- clamps for lab researc	35.51
07-APR-20	Z1003527	McDonald, A- cuvette for research	34.50
07-APR-20	Z1003527	McDonald, A- data logging equipment	23.97
07-APR-20	Z1003527	McDonald, A- data logging equipment	11.99
07-APR-20	Z1003527	McDonald, A- data logging equipment	70.26
07-APR-20	Z1003527	McDonald, A- data logging for resea	7.50
07-APR-20	Z1003527	McDonald, A- electric motor replace	16.67
07-APR-20	Z1003527	McDonald, A- pellet die for researc	319.12
07-APR-20	Z1003527	McDonald, A- replacement GC column	602.37
07-APR-20	Z1003527	McDonald, A-replacement motor resea	7.77
10-APR-20	I2128570	Culligan Water Conditioning	29.95
14-APR-20 14-APR-20	Z1003781 Z1003781	Charge for cylinders, specialty gas Charge for pack of 1000 filters, re	57.00 880.16
14-APR-20 14-APR-20	Z1003781 Z1003781	Charge for reagents to test for nit	1002.52
14-APR-20	Z1003781	Charge for reagents to test for nit	136.84
06-MAY-20	Z1005781	McDonald A- Masks for research.	36.98
06-MAY-20	Z1004558	McDonald A- digital thermometer for	12.98
06-MAY-20	Z1004558	McDonald A- refund for 4 CO2 sensor	-296.59
06-MAY-20	Z1004558	McDonald A- research supplies	29.15
19-MAY-20	Z1004937	Charge for purchase of PCR test pla	116.55
29-MAY-20	Z1005467	RyuJa 689859 Amazon Grant research	149.68
29-MAY-20	Z1005467	RyuJa 689859 Amazon Grant research	7.41
29-MAY-20	Z1005467	RyuJa 689859 Amazon Grant research	190.79
29-MAY-20	Z1005467	RyuJa 689859 Amazon Grant research	19.15
29-MAY-20	Z1005467	RyuJa 689859 Amazon Grant research	14.98
29-MAY-20	Z1005467	RyuJa 689859 Amazon Grant research	14.51
29-MAY-20 29-MAY-20	Z1005467 Z1005467	RyuJa 689859 Amazon Grant research RyuJa 689859 Amazon Grant research	37.49 10.06
29-MAY-20	Z1005467	RyuJa 689859 Amazon Grant research	203.06
29-MAY-20	Z1005467	RyuJa 689859 Amazon Grant research	158.87
29-MAY-20	Z1005467	RyuJa 689859 Amazon Grant research	46.50
29-MAY-20	Z1005467	RyuJa 689859 Home Depot Grant resea	49.21
29-MAY-20	Z1005467	RyuJa 689859 Office Depot Grant res	43.66
29-MAY-20	Z1005475	RyuJa 764722 Amazon Batteries neede	20.99
29-MAY-20	Z1005475	RyuJa 764722 Staples Storage boxes	62.97
29-MAY-20	Z1005499	RyuJa 746498 Amazon Batteries and r	95.96
29-MAY-20	Z1005499	RyuJa 746498 Amazon Brushless motor	33.89
29-MAY-20	Z1005499	RyuJa 746498 Amazon Electronic spee	156.66
29-MAY-20	Z1005499	RyuJa 746498 Amazon Metal dispenser	44.99
29-MAY-20	Z1005499	RyuJa 746498 Amazon Metal sealer to	27.99
29-MAY-20 29-MAY-20	Z1005499	RyuJa 746498 Amazon Plastic bags ne	52.00
29-MAY-20 29-MAY-20	Z1005499 Z1005499	RyuJa 746498 Amazon Plastic bags ne RyuJa 746498 Amazon Plastic bags th	35.99 29.99
29-MAY-20	Z1005499	RyuJa 746498 Amazon Raspberry pi he	5.99
29-MAY-20	Z1005499	RyuJa 746498 Amazon Small boxes tha	23.71
29-MAY-20	Z1005499	RyuJa 746498 Amazon Zip ties that a	4.39
29-MAY-20	Z1005499	RyuJa 746498 Staples File storage a	101.93
29-MAY-20	Z1005531	RyuJa 680904 Amazon Grant research	30.89
29-MAY-20	Z1005531	RyuJa 680904 Amazon Grant research	7.41
29-MAY-20	Z1005531	RyuJa 680904 Amazon Grant research	84.53
29-MAY-20	Z1005531	RyuJa 680904 Amazon Grant research	138.43
29-MAY-20	Z1005531	RyuJa 680904 Home Depot Grant resea	46.94
29-MAY-20	I2134640	Ryu, Jae H.	254.99
03-JUN-20	Z1005709	McDonald A- 2 angle plate 2" webbed	37.04

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0/30/2020	https://vandalweb.uidaho.edu/PROD/gokoutp.P_ShowReq?pipe_name=ORA\$PIPE\$0670E92A0	10001&Sess_10=401451009&usel_11	ame

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03-JUN-20	Z1005709	McDonald A- 4 CO2 sensors for resea	279.80
03-JUN-20	Z1005709	McDonald A- gloves for research lab	54.76
03-JUN-20	Z1005709	McDonald A- lab supplies for resear	15.97
03-JUN-20	Z1005709	McDonald A- lab supplies for resear	7.95
03-JUN-20	Z1005709	McDonald A- masks for lab research	119.96
03-JUN-20	Z1005709	McDonald A- stand for research.	114.80
03-JUN-20	Z1005709	McDonald A- supplies for research	98.58
03-JUN-20	Z1005722	Charge for 250 pk small nitrile exa	334.46
03-JUN-20	Z1005722	Charge for Great Stuff hornet spray	24.97
03-JUN-20	Z1005722	Charge for for purchase of material	1470.70
03-JUN-20	Z1005722	Charge for grease gun, grease hose,	33.47
03-JUN-20	Z1005722	Charge for plastic welding kit, res	74.19
03-JUN-20	Z1005722	Charge for purchase of new peristal Charge for BASE PAIR 50 NMOL SCALE,	220.50
09-JUN-20 09-JUN-20	Z1006053 Z1006053	Charge for nitrile exam gloves, res	48.56 167.23
18-JUN-20	J1271165	ef/CT from 826742 to 826744	-400.98
29-JUN-20	Z1007007	Surge Protector with extension cord	50.38
29-JUN-20	I2138724	Humes, Karen S	43.67
E5741 Med Lab 8			45:07
08-JUL-19	U0132495	Chemstores/Alfaro	16.51
10-JUL-19	U0132527	Chemstores/Guho	3.04
10-JUL-19	U0132530	Chemstores/Guho	8.65
24-JUL-19	U0132644	Chemstores/Abbasi	8.18
25-JUL-19	U0132646	Chemstores/Abbasi	30.02
25-JUL-19	U0132647	Chemstores/Abbasi	21.53
26-JUL-19	U0132658	Chemstores/Abbasi	134.58
26-JUL-19	U0132659	Chemstores/Dikshyapokhrel	61.69
07-AUG-19	U0132748	Chemstores/Alfaro	72.00
08-AUG-19	U0132758	Chemstores/McDonald	10.89
13-AUG-19	U0132773	Chemstores/Abbasi	9.91
14-AUG-19	U0132781	Chemstores/Pokhrel	8.18
23-AUG-19	U0132870	Chemstores/Abbasi	214.26
26-AUG-19	U0132881	Chemstores/Pokhrel	9.91
26-AUG-19	U0132882	Chemstores/Pohkrel	29.72
27-AUG-19	U0132894	Chemstores/Abbasi	39.63
29-AUG-19	U0132924	Chemstores/Abbissa	80.97
29-AUG-19	U0132925	Chemstores/Abbisa	61.47
29-AUG-19	U0132926	Chemstores/ReturnU132924	-61.70 61.47
03-SEP-19 04-SEP-19	U0132965 ZT498840	Chemstores/Pokhrel Agriculture and Medical Supplies 08	47.17
04-SEP-19	ZT498840	Agriculture and Medical Supplies 08	43.99
04-SEP-19	ZT498840	Agriculture and Medical Supplies 08	213.00
04-SEP-19	ZT498840	Agriculture and Medical Supplies 08	9.90
04-SEP-19	ZT498840	Agriculture and Medical Supplies 08	30.04
06-SEP-19	U0133005	Chemstores/Abbasi	91.48
11-SEP-19	U0133072	Chemstores/Abbasi	34.02
13-SEP-19	U0133135	Chemstores/McDonald	23.13
17-SEP-19	U0133169	Chemstores/Abbasi	87.88
17-SEP-19	U0133186	Chemstores/Abbasi	44.84
19-SEP-19	U0133228	Chemstores/Abbasi	72.56
23-SEP-19	U0133262	Chemstores/Guho	9.91
24-SEP-19	U0133284	Chemstores/Guho	25.56
25-SEP-19	U0133296	Chemstores/Abbasi	38.16
02-0CT-19	U0133354	Chemstores/Brower	43.50
03-0CT-19	U0133365	Chemstores/Pokhrel	72.35
22-0CT-19	U0133570	Chemstores/Pokhrell	23.33
25-0CT-19	ZT638339	Agriculture and Medical Supplies 09	299.99
25-0CT-19	ZT638339	Agriculture and Medical Supplies 09	178.08
25-0CT-19	ZT638339	Agriculture and Medical Supplies 09	17.65
25-0CT-19	ZT638339	Agriculture and Medical Supplies 09	105.69
25-0CT-19	ZT638339	Agriculture and Medical Supplies 09	226.85
25-0CT-19	ZT638339	Agriculture and Medical Supplies 09	21.98
04-NOV-19	U0133705	Chemstores/Abbasi	23.73
21-NOV-19	U0133885	Chemstores/Pokhrel	30.00
20-DEC-19	U0134294	Chemstores/Alfaro	19.68

6/30/2020 h	nttps://vandalweb.uidaho.e	du/PROD/gokoutp.P_ShowReq?pipe_name=OR	A\$PIPE\$0670E92A0001&sess_id=461451069&user_i	name=
06-JAN-	-20 U0134306	Chemstores/Abbasi	47.03	
14-JAN-		Chemstores/Abbasi	19.53	
21-JAN-	-20 U0134419	Chemstores/Abbani	30.00	
24-JAN-	-20 U0134463	Chemstores/Abbasi	53.97	
27-JAN-	-20 U0134467	Chemstores/Abbasi	30.00	
30-JAN-	-20 U0134555	Chemstores/Return-U134463	-53.97	
10-FEB-	-20 U0134652	Chemstores/Alfaro	2.00	
14-FEB-	-20 U0134749	Chemstores/McDonald	44.18	
28-FEB-	-20 U0134883	Chemstores/Abbasi	19.45	
02-MAR-	-20 U0134893	Chemstores/Abbasi	19.39	
03-MAR-		Chemstores/Guho	47.82	
04-MAR-		Chemstores/McDonald	31.77	
05-MAR-		Qiagen Inc.	1216.35	
05-MAR-		Chemstores/Abbasi	82.37	
05-MAR-		Chemstores/Guho	-36.09	
05-MAR-		Chemstores/Guho	75.44	
09-MAR-		Chemstores/Abbissa	36.41	
09-MAR-		Chemstores/Abbissa	16.03	
13-MAR-		Chemstores/Abbissa	29.12	
18-MAR-		Chemstores/Abbissa	9.73	
25-MAR-		Chemstores/Abbissa	117.43	
25-MAR-		Chemstores/Abbasi	143.66	
29-MAY-		Chemstores/Abbisa	58.21	
05-JUN-		Chemstores/Pokhrel	60.51	
25-JUN-		Chemstores/Crites	2.00	
25-SEP-	<pre>Fety Supplies 19 ZT574740</pre>	Supplies 09022019	21.18	
	nt - Machinery & E		21.10	
28-AUG-		Culligan Water Conditioning	29.95	
28-A00- 07-MAY-		Culligan Water Conditioning	29.95	
-	her Rentals and Le		23:35	
20-AUG-		Boise State University	337.50	
E5992 Pro		boise state oniversity	557.50	
02-DEC-		Bkstr;TABLECLOTH CALS	188.00	
			\$ 65745.64	
Subawards				
ES001 Sub	baward 1 Expenses			
28-0CT-	-19 I2102349	Boise State University	27940.93	
30-JAN-	-20 I2117336	Boise State University	25033.25	
26-JUN-	-20 I2138244	Boise State University	33735.28	
26-JUN-	-20 I2138245	Boise State University	31824.18	
ES002 Sub	baward 2 Expenses			
01-MAY-		Idaho State University	35436.26	
19-JUN-	-20 I2137457	Idaho State University	133198.43	
			\$ 287168.33	
Small Equipm				
	Computer Equipme		1224 00	
16-JUL-		Ryu, Jae H.	1324.98	
	Communication Ec		1106 74	
06-NOV-	-19 I2104173	Ryu, Jae H.	1196.74	
			\$ 2521.72	
Canital Equi	ipment (>=\$5K)			
	(Medical/Surgery/	lab Equipment		
6850 >5K		Spectra Vista Corporation	18215.00	
18-JUN-		Spectra Vista Corporation Spectra Vista Corporation	0.00	
10-JON-	20 0100000		0.00	
			\$ 18215.00	
			+ 10213.00	

Tuition Remission and Training

6/30/2020 https://vandalweb.uidaho.edu/PROD/gokoutp.P_ShowReq?pipe_name=ORA\$PIPE\$0670E92A0001&sess_id=461451069&user_name=...

E7140 Tuition		-			
16-AUG-19	J1251999			171-55579	786.00
16-AUG-19	J1251999			171-55579	951.00
16-AUG-19	J1251999 J1251999			171-55579	4152.00
21-AUG-19	J1252645			V00665494	786.00
21-AUG-19	J1252645			V00665494	48.50
21-AUG-19	J1252645			V00665494	951.00
21-AUG-19	J1252645			V00665494	4152.00
21-AUG-19	J1252645			V00665494	100.00
22-AUG-19	J1252827			142-24168	786.00
22-AUG-19	J1252827			142-24168	951.00
22-AUG-19	J1252827			142-24168	4152.00
03-SEP-19	J1253572			941-68901	596.00
03-SEP-19	J1253572			051-04535	786.00
03-SEP-19	J1253572			051-04535	4152.00
22-0CT-19	J1257016			051-04535	105.00
02-JAN-20	J1261084			171-55579	786.00
02-JAN-20	J1261084			171-55579	951.00
02-JAN-20	J1261084			171-55579	4152.00
16-JAN-20	J1262236			142-24168	786.00
16-JAN-20	J1262236			142-24168	951.00
16-JAN-20	J1262236			142-24168	4152.00
22-JAN-20	J1262441			V00665494	786.00
22-JAN-20	J1262441			V00665494	951.00
22-JAN-20	J1262441			V00665494	4152.00
22-JAN-20	J1262441			V00665494	100.00
22-JAN-20	J1262488			151-29182	786.00
22-JAN-20	J1262488			051-04535	786.00
22-JAN-20	J1262488			041-97395	87.00
22-JAN-20	J1262488			151-29182	4152.00
22-JAN-20	J1262488	T2GA	for	941-68901	596.00
22-JAN-20	J1262488			051-04535	4152.00
22-JAN-20	J1262488	T2HA	for	041-97395	462.00
01-JUN-20	J1269697	G3HD	for	171-55579	174.00
01-JUN-20	J1269697	MPX3	for	171-55579	70.00
01-JUN-20	J1269697	T3HD	for	171-55579	924.00
02-JUN-20	J1269878	G3HA	for	151-29182	87.00
02-JUN-20	J1269878	G3HA	for	941-68901	87.00
02-JUN-20	J1269878	G3HB	for	051-04535	87.00
02-JUN-20	J1269878	T3HA	for	151-29182	462.00
02-JUN-20	J1269878	T3HA	for	941-68901	462.00
02-JUN-20	J1269878	T3HB	for	051-04535	462.00
17-JUN-20	J1271019	G3HB	for	V00665494	87.00
17-JUN-20	J1271019	T3HB	for	V00665494	462.00
24-JUN-20	J1271442	G3HB	for	161-44626	87.00
24-JUN-20	J1271442	ТЗНВ	for	161-44626	462.00
					\$ 56155.50

Total Expenses

\$ 680812.59

- - - -



For information regarding this invoice contact: Aaron Tolman 208-282-3056

Renee Jensen-Hasfurther Financial Contact University of Idaho 875 Perimeter Drive, MS 3021 Moscow, ID 83844

Date Prepared:06/12/2020Contract:SG-3587-SB-877869Purchase Order:RGE02R-08 RevisedInvoice No.:RGE02R-08 RevisedReference invoice number on the payment

PERIOD COVERED:	12/01/2019 - 06/3	80/2020	paymont	
		CURRENT	CUMULATIVE	(Over)/Under
SUBAWARD	BUDGET	EXPENSES	EXPENSES	BUDGET
Salary	\$81,365.09	\$61,928.69	\$81,365.09	\$0.00
Fringe Benefits	\$18,858.82	12,615.85	\$18,858.82	0.00
Material and Supplies	\$10,500.00	1,701.92	\$10,477.69	22.31
Equipment	\$51,500.23	51,500.23	\$51,500.23	0.00
Travel	\$3,932.86	2,951.74	\$3,932.86	0.00
Consultant Services	\$2,500.00	2,500.00	\$2,500.00	0.00
Totals	\$168,657.00	\$133,198.43	\$168,634.69	\$22.31
Cumulative Amount Received:		\$35,436.26		
Billed-Not Received*:		0.00		
Current Expenses		\$133,198.43		
Credit Applied:		(\$231.54)		
Total Due This Period		\$132,966.89		

PLEASE NOTE

The Total Now Due represents the current billing amount and any prior billings that have not yet been received as of the invoice date. If you have already sent payment for an invoice listed as billed-not received, please remit the CURRENT expense amount rather than the cumulative total. THANK YOU!

Lisa Wood

Lisa Wood, Director, Grants & Contracts Accounting

"I certify that the above bill is correct and just, that the amounts claimed represent fair charges against this subcontract."

Please make remittances payable to Idaho State University and remit to: 921 South 8th Avenue, Stop 8219 Pocatello, ID 83209-8219

BSU Account Analysis Report From Period: 1-10

To Period: 12-20

Report Date: 6/26/20 10:57 AM

	57 AM		1	-	
		PROJECT	NET_AMOUNT		GL_BATCH_NAME SUBLEDGER_JE_LINE_DESC
01 - Salary	Employees - Temporary	2000001188	3,200.00	7/26/2019	PPD_6/30/2019_7/13/2019 Payroll A 1472339 Journal Import Created
01 - Salary	Employees - Temporary	2000001188	3,200.00	8/9/2019	PPD_7/14/2019_7/27/2019 Payroll A 1490202 Journal Import Created
01 - Salary	Employees - Temporary	2000001188	3,200.00	8/23/2019	PPD_7/28/2019_8/10/2019 Payroll A 1522239 Journal Import Created
01 - Salary	Employees - Temporary	2000001188	3,200.00	9/6/2019	PPD_8/11/2019_8/24/2019 Payroll A 1547259 Journal Import Created
01 - Salary	Employees - Temporary	2000001188	3,200.00	9/20/2019	PPD_8/25/2019_9/7/2019 Payroll A 1573798 Nournal Import Created
01 - Salary	Employees - Temporary	2000001188	1,600.00	10/4/2019	PPD_9/8/2019_9/21/2019 Payroll A 1597100 NJournal Import Created
01 - Salary	Employees - Temporary	2000001188	1,600.00	10/18/2019	PPD_9/22/2019_10/5/2019 Payroll A 1617565 Journal Import Created
01 - Salary	Employees - Temporary	2000001188	2,355.60	11/1/2019	PPD_10/6/2019_10/19/2019 Payroll A 164051 Journal Import Created
01 - Salary	Employees - Temporary	2000001188	3,111.20	11/15/2019	PPD 10/20/2019 11/2/2019 Payroll A 166303 Journal Import Created
01 - Salary	Employees - Temporary	2000001188	3,111.20	11/29/2019	PPD 11/3/2019 11/16/2019 Payroll A 168665 Journal Import Created
01 - Salary	Employees - Temporary	2000001188	3,056.00	12/13/2019	PPD 11/17/2019 11/30/2019 Payroll A 17138 Journal Import Created
01 - Salary	Employees - Temporary	2000001188	3,056.00	12/27/2019	PPD 12/1/2019 12/14/2019 Payroll A 172891 Journal Import Created
01 - Salary	Employees - Temporary	2000001188	3,056.00	1/10/2020	PPD 12/15/2019 12/28/2019 Payroll A 17497 Journal Import Created
01 - Salary	Employees - Temporary	2000001188	3,056.00	1/24/2020	PPD 12/29/2019 1/11/2020 Payroll A 177188 Journal Import Created
01 - Salary	Summer Salary	2000001188	5,541.50	6/12/2020	PPD 5/17/2020 5/30/2020 Payroll A 2007658 Journal Import Created
01 - Salary	Summer Salary	2000001188	5,541.50	6/26/2020	PPD 5/31/2020 6/13/2020 Payroll A 2033051 Journal Import Created
01 - Salary	Students	2000001188	1,846.40	2/7/2020	PPD 1/12/2020 1/25/2020 Payroll A 1791738 Journal Import Created
01 - Salary	Students	2000001188	1,846.40	2/21/2020	PPD 1/26/2020 2/8/2020 Payroll A 1813384 Nournal Import Created
01 - Salary	Students	2000001188	1.846.40	3/6/2020	PPD_2/9/2020_2/22/2020 Payroll A 1842597 Nournal Import Created
01 - Salary	Students	2000001188	1.846.40	3/20/2020	PPD 2/23/2020 3/7/2020 Payroll A 1865872 Nournal Import Created
01 - Salary	Students	2000001188	1,846.40	4/3/2020	PD 3/z/2020 3/z/2020 Payroll A 1889401 Nournal Import Created
01 - Salary	Students	2000001188	1,846.40	4/17/2020	PD 3/2/2020 4/4/2020 Payrold A 19/274 Njournal Import Created
01 - Salary 01 - Salary	Students	2000001188	1,846.40	5/1/2020	PPD 4/5/2020 4/18/2020 Payrola 1912/41 Ryburnal Import Created PPD 4/5/2020 4/18/2020 Payrola 1915887 Njournal Import Created PPD 4/5/2020 4/18/2020 4/18/2020 Payrola 191587 Njournal Import Created
01 - Salary	Students	2000001188	1,846.40	5/15/2020	PD 4/y9/2020 5/2/2020 Payroll A 195205 Njournal Import Created
01 - Salary	Students	2000001188	1,846.40	5/29/2020	PD 5/3/2020 5/16/2020 Payroll A 1982147 Njournal Import Created
01 - Salary 01 - Salary	Students	2000001188	1,846.40	6/12/2020	PPD 5/1/2020 5/30/2020 Payroll A 2007585 Journal Import Created
01 - Salary	Students	2000001188	1.846.40	6/26/2020	PPD 5/31/2020 F0/32/2020 Pavoll A 2033051 Journal Import Created
or Salary	Students	Total Salary:	\$ 71,395.40		Trb_s/st/222_0/st/222_0/st/2020 reliable to the state of
02 - Fringe	Group Insurance - Life	2000001188	25.23	8/9/2019	PPD 7/14/2019 7/27/2019 Payroll A 1490202 Journal Import Created
02 - Fringe	Group Insurance - Life	2000001188	25.23	9/6/2019	FPG_I14r2013_I12/I2013 Payroll A 143026 Journal import Created
02 - Fringe	Group Insurance - Life	2000001188	25.23	10/4/2019	PPD 9/8/2019 9/21/2019 Payrol A 159725 Doubling import Created
02 - Fringe 02 - Fringe	Group Insurance - Life	2000001188	25.23	11/1/2019	PPD 0/6/029 10/19/2019 Pavroll A 1640510 ormal Import Created
02 - Fringe	Group Insurance - Life	2000001188	25.23	12/13/2019	PP 11/17/019 11/30/019 Pavolla 14/338Journal Import Created
02 - Fringe 02 - Fringe	Group Insurance - Life	2000001188	25.23	1/10/2020	PPD 1/11/2019 1/28/2019 Payrolin A 17338 Journal import Created PPD 1/11/2019 1/28/2019 Payrolin A 17338 Journal import Created
02 - Fringe 02 - Fringe	Group Insurance - Life	2000001188	35.49	6/12/2020	PPD_j1/j2029_j220/22029 Payroll A 2/49/2 Journal Import Created PPD_j1/j2029_j220/22029 Payroll A 2/49/2 Journal Import Created PPD_j1/j2029_j220/22029 Payroll A 2/49/2 Journal Import Created
02 - Fringe 02 - Fringe	Group Insurance - Med & D	2000001188	970.84	7/26/2019	PPD 6/30/2019 7/13/2019 Pavoll A 120/763 plutnal import created
	Group Insurance - Med & D Group Insurance - Med & D	2000001188	970.84	8/23/2019	PPD //syl/2019_//15/2019 Payroll A 14/2539 Journal Import Created PPD 7/sk/2019 8/10/2019 Payroll A 15/2239 Journal Import Created
02 - Fringe	Group Insurance - Med & D	2000001188	970.84	9/20/2019	PPD 8/25/2019_9/1/2019 Payroll A 1522239 Journal import Created PPD 8/25/2019 9/1/2019 Payroll A 1532239 Journal import Created PPD 8/25/2019 9/1/2019 9/1/2019 Payroll A 1532239 Journal import Created PPD 8/25/2019 9/1/2019 Payroll A 1532239 Journal import Created PPD 8/25/2019 9/1/2019 9/1/2019 Payroll A 1532239 Journal import Created PPD 8/25/2019 9/1/2019 9/1/2019 Payroll A 1532239 Journal import Created PPD 8/25/2019 9/1/2019 9/1/2019 Payroll A 1532239 Journal import Created PPD 8/25/2019 9/1/2019 9/1/2019 Payroll A 1532239 Journal import Created PPD 8/25/2019 9/1/2019 9/1/2019 Payroll A 1532239 Journal import Created PPD 8/25/2019 9/1/2019 9/1/2019 Payroll A 1532239 Journal import PPD 8/25/2019 Payroll A 1532239 Journal import PPD 8/25/2019 Payroll A 1532239 Journal import PPD 8/25/2019 Payroll A 15329
02 - Fringe 02 - Fringe	Group Insurance - Med & D		970.84		rrD_0/20/2019_9/7/2019 rdy10ii A 15/5/96 Noutrial import created
			070.04	10/10/2010	
		2000001188	970.84	10/18/2019	PPD_9/22/2019_10/5/2019 Payroll A 1617565 Journal Import Created
02 - Fringe	Group Insurance - Med & D	2000001188 2000001188	970.84	11/15/2019	PPD_10/20/2019_11/2/2019 Payroll A 166303 Journal Import Created
02 - Fringe	Group Insurance - Med & D Group Insurance - Med & D	2000001188 2000001188 2000001188	970.84 970.84	11/15/2019 12/27/2019	PPD_10/20/2019_11/2/2019 Payroll A 166303_Journal Import Created PPD_12/1/2019_12/14/2019 Payroll A 172891_Journal Import Created
02 - Fringe 02 - Fringe	Group Insurance - Med & D Group Insurance - Med & D Group Insurance - Med & D	2000001188 2000001188 2000001188 2000001188	970.84 970.84 970.84	11/15/2019 12/27/2019 1/24/2020	PPD_10/20/2019_11/2/2019 Payroll A 166303_Journal Import Created PPD_12/1/2019_12/14/2019 Payroll A 172891_Journal Import Created PPD_12/2/29/2019_1/11/2020 Payroll A 177188_Journal Import Created
02 - Fringe 02 - Fringe 02 - Fringe	Group Insurance - Med & D Group Insurance - Med & D Group Insurance - Med & D Group Insurance - Med & D	2000001188 2000001188 2000001188 2000001188 2000001188	970.84 970.84 970.84 286.83	11/15/2019 12/27/2019 1/24/2020 6/12/2020	PPD_10/20/2019_11/2/2019 Payroll A 163033 Journal Import Created PPD_12/2/14/2019_Payroll A 172891 Journal Import Created PPD_12/2/2019_11/11/2020 Payroll A 177385 Journal Import Created PPD_5/17/2020_5/30/2020 Payroll A 2007658 Journal Import Created
02 - Fringe 02 - Fringe 02 - Fringe 02 - Fringe	Group Insurance - Med & D Group Insurance - Med & D	2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188	970.84 970.84 970.84 286.83 286.83	11/15/2019 12/27/2019 1/24/2020 6/12/2020 6/26/2020	PPD_10/20/2019_11/2/2019 Payroll A 163033 Journal Import Created PPD_12/2/12019_12/11/2020 Payroll A 172891 Journal Import Created PPD_51/2/2020_5/30/2020 Payroll A 2007658 Journal Import Created PPD_5/31/2020_6/13/2020 Payroll A 2003051 Journal Import Created
02 - Fringe 02 - Fringe 02 - Fringe 02 - Fringe 02 - Fringe	Group Insurance - Med & D Group Ins - Medical Grad	2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188	970.84 970.84 970.84 286.83 286.83 1,967.00	11/15/2019 12/27/2019 1/24/2020 6/12/2020 6/26/2020 2/21/2020	PPD_10/20/2019_11/2/2019 Payroll A 163033 Journal Import Created PPD_12/1/2019_12/11/2020 Payroll A 1728913 Journal Import Created PPD_5/12/2019_11/1/2020 Payroll A 177188 Journal Import Created PPD_5/12/2020_5/30/2020 Payroll A 2007658 Journal Import Created PPD_5/12/2020_6/13/2020 Payroll A 203051 Journal Import Created PPD_1/2/2020_6/13/2020 Payroll A 1813384 Journal Import Created
02 - Fringe 02 - Fringe 02 - Fringe 02 - Fringe 02 - Fringe 02 - Fringe 02 - Fringe	Group Insurance - Med & D Group Ins - Medical Grad Worker's Compensation	2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188	970.84 970.84 970.84 286.83 286.83 1,967.00 76.04	11/15/2019 12/27/2019 1/24/2020 6/12/2020 6/26/2020 2/21/2020 7/26/2019	PPD_10/20/2019_11/2/2019 Payroll A 165303 Journal Import Created PPD_12/2/12/14/2019 Payroll A 172831 Journal Import Created PPD_12/2/2019_11/12/2020 Payroll A 172831 Journal Import Created PPD_5/17/2020_5/30/2020 Payroll A 203051 Journal Import Created PPD_5/17/2020_6/3/2020 Payroll A 203051 Journal Import Created PPD_15/2/2020_0/3/2020 Payroll A 203051 Journal Import Created PPD_15/3/2020_0/3/2020 Payroll A 13384 Nournal Import Created PPD_15/3/2020_12/3/2020 Payroll A 1472339 Journal Import Created PPD_16/30/2019_7/13/2019 Payroll A 1472339 Journal Import Created
02 - Fringe 02 - Fringe 02 - Fringe 02 - Fringe 02 - Fringe 02 - Fringe 02 - Fringe	Group Insurance - Med & D Group Ins - Medical Grad Worker's Compensation Worker's Compensation	2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188	970.84 970.84 970.84 286.83 286.83 1,967.00 76.04 76.04	11/15/2019 12/27/2019 1/24/2020 6/12/2020 6/26/2020 2/21/2020 7/26/2019 8/9/2019	PPD_12/2/019_11/2/2019 Payroll A 163033 Journal Import Created PPD_12/2/1/2019_12/1/2/2019 Payroll A 172831 Journal Import Created PPD_12/2/29/2019_11/11/2020 Payroll A 2007658 Journal Import Created PPD_5/31/2020_6/30/202 Payroll A 2007658 Journal Import Created PPD_5/31/2020_6/31/2020 Payroll A 1813384 Vournal Import Created PPD_6/30/2019_71/31/2019 Payroll A 1813384 Vournal Import Created PPD_6/30/2019_71/31/2019 Payroll A 1813384 Vournal Import Created PPD_6/30/2019_71/31/2019 Payroll A 1813384 Vournal Import Created PPD_6/30/2020_2/8/2020 Payroll A 1813384 Vournal Import Created PPD_6/30/2020_2/8/2020 Payroll A 1813384 Vournal Import Created PPD_6/30/2020_7/32/019 Payroll A 1490202 Journal Import Created PPD_7/14/2019_7/27/2019 Payroll A 1490202 Journal Import Created
02 - Fringe 02 - Fringe	Group Insurance - Med & D Group Ins - Medical Grad Worker's Compensation Worker's Compensation	2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188	970.84 970.84 970.84 286.83 286.83 1,967.00 76.04 76.04 76.04 76.04	11/15/2019 12/27/2019 1/24/2020 6/12/2020 6/26/2020 2/21/2020 7/26/2019 8/9/2019 8/23/2019	PPD_10/20/2019_11/2/2019 Payroll A 163033 Journal Import Created PPD_12/29/2019_12/11/2020 Payroll A 172891 Journal Import Created PPD_5/17/2020_5/30/2020 Payroll A 2007658 Journal Import Created PPD_5/31/2020_6/13/2020 Payroll A 2007658 Journal Import Created PPD_5/31/2020_6/13/2020 Payroll A 181384 N Journal Import Created PPD PPD_5/31/2020_7/31/2020 Payroll A 181384 N Journal Import Created PPD PPD_6/30/2019_7/13/2019 Payroll A 1472339 Journal Import Created PPD_7/28/2019_3/2/2109 Payroll A 1522239 Journal Import Created
02 - Fringe 02 - Fringe	Group Insurance - Med & D Group Ins - Medical Grad Worker's Compensation Worker's Compensation Worker's Compensation	2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188	970.84 970.84 970.84 286.83 286.83 1,967.00 76.04 76.04 76.04 76.04	11/15/2019 12/27/2019 1/24/2020 6/12/2020 6/26/2020 2/21/2020 7/26/2019 8/9/2019 8/23/2019 9/6/2019	PPD_10/20/2019_11/1/2019 Payroll A 163033 [Journal Import Created PPD_12/2/2019_12/1/12/2019 Payroll A 172891 PPD_12/2/2019_11/11/2020 Payroll A 172881 PPD_12/2/2019_11/11/2020 Payroll A 172881 PPD_5/17/2020_5/30/202 Payroll A 203051 Journal Import Created PPD_15/2/2020_2/s/2020 Payroll A 1203051 Journal Import Created PPD_15/12/2020_2/s/2020 Payroll A 1203051 Journal Import Created PPD_16/30/2019_7/13/2019 Payroll A 1472339 Journal Import Created PPD_16/30/2019_7/13/2019 Payroll A 1472339 Journal Import Created PPD_17/12/2019_7/2/2019 Payroll A 1472339 Journal Import Created PPD_7/12/2019_7/2/2019 Payroll A 1472339 Journal Import Created PPD_7/12/2019_8/10/2019 Payroll A 1452239 Journal Import Created PPD_7/12/2019_8/201/2019 Payroll A 152239 Journal Import Created
02 - Fringe 02 - Fringe	Group Insurance - Med & D Group Ins - Medical Grad Worker's Compensation Worker's Compensation Worker's Compensation Worker's Compensation Worker's Compensation	2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188	970.84 970.84 970.84 286.83 286.83 1,967.00 76.04 76.04 76.04 76.04 76.04 76.04	11/15/2019 12/27/2019 1/24/2020 6/12/2020 6/26/2020 2/21/2020 7/26/2019 8/9/2019 8/23/2019 9/6/2019 9/20/2019	PPD_01/2019_11/2/2019 Payroll A 163033 Journal Import Created PPD_12/29/2019_11/12/2019 Payroll A 172831 Journal Import Created PPD_12/29/2019_11/11/2020 Payroll A 172831 Journal Import Created PPD_5/17/2020_5/30/2020 Payroll A 172831 Journal Import Created PPD_5/17/2020_6/30/2020 Payroll A 172831 Journal Import Created PPD_5/17/2020_6/30/2020 Payroll A 17383 Journal Import Created PPD_5/17/2020_6/30/2020 Payroll A 1813384 N Journal Import Created PPD_6/30/2019_7/13/2019 Payroll A 1472333 Journal Import Created PPD_6/30/2019_7/13/2019 Payroll A 1472333 Journal Import Created PPD_7/14/2019_7/27/2019 Payroll A 1472333 Journal Import Created PPD_7/14/2019_7/27/2019 Payroll A 1472333 Journal Import Created PPD_7/14/2019_3/24/2019 Payroll A 1472333 Journal Import Created PPD_8/31/2019_8/24/2019 Payroll A 1573798 Journal Import Created PPD_8/31/2019_8/24/2019_8/24/2019 Payroll A 1573798 Journal Import Created PPD_8/25/2019_9/7/2019 Payroll A 1573798 Journal Import Created PPD_8/25/2019_8/24/2019 Payroll A 1573798 Journal Import Created
02 - Fringe 02 - Fringe	Group Insurance - Med & D Group Ins - Medical Grad Worker's Compensation Worker's Compensation Worker's Compensation Worker's Compensation Worker's Compensation Worker's Compensation	2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188	970.84 970.84 970.84 286.83 286.83 1,967.00 76.04 76.04 76.04 76.04 76.04 76.04 76.04 76.04	11/15/2019 12/27/2019 1/24/2020 6/12/2020 2/21/2020 7/26/2019 8/9/2019 8/6/2019 9/6/2019 9/20/2019 10/4/2019	PPD_10/20/2019_11/2/2019 Payroll A 163033 Journal import Created PPD_12/2/9/2019_12/11/2020 Payroll A 177883 Journal import Created PPD_5/7/2020_5/30/2020 Payroll A 2007658 Journal import Created PPD_5/31/2020_6/13/2020 Payroll A 2007658 Journal import Created PPD_5/31/2020_6/13/2020 Payroll A 12033051 Journal import Created PPD_5/31/2020_7/31/2020 Payroll A 1313384 Journal import Created PPD_6/30/2019_7/13/2019 Payroll A 143239 Journal import Created PPD_7/2/2019_7/27/2019 Payroll A 1490202 Journal import Created PPD_7/2/8/2019_8/10/2019 Payroll A 1490202 Journal import Created PPD_7/28/2019_8/10/2019 Payroll A 1490202 Journal import Created PPD_7/28/2019_8/10/2019 Payroll A 1592239 Journal import Created PPD_8/25/2019_8/10/2019 Payroll A 1592239 Journal import Created PPD_8/25/2019_8/10/2019 Payroll A 1597208 Journal import Created PPD_8/25/2019_9/7/21/2019 Payroll A 1597100 Journal import Created PPD_8/25/2019_9/21/2019 Payroll A 1597100 Nournal import Created PPD_8/25/2019_9/21/2019 Payroll A 1597100 Nournal import Created
02 - Fringe 02 - Fringe	Group Insurance - Med & D Group Ins - Medical Grad Worker's Compensation Worker's Compensation Worker's Compensation Worker's Compensation Worker's Compensation Worker's Compensation	2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188	970.84 970.84 970.84 286.83 286.83 286.83 1,967.00 76.04 76.04 76.04 76.04 76.04 76.04 76.04 77.49 7.49	11/15/2019 12/27/2019 1/24/2020 6/12/2020 6/26/2020 2/21/2020 7/26/2019 8/9/2019 8/9/2019 9/6/2019 9/20/2019 10/4/2019 10/18/2019	PPD_10/20/2019_11/2/2019 Payroll A 163033 Journal Import Created PPD_12/29/2019_1/11/2020 Payroll A 172891 Journal Import Created PPD_5/17/2020_5/30/2020 Payroll A 2007658 Journal Import Created PPD_5/17/2020_6/13/2020 Payroll A 2007658 Journal Import Created PPD_5/17/2020_6/13/2020 Payroll A 2007658 Journal Import Created PPD_5/31/2020_6/13/2020 Payroll A 1813384 Journal Import Created PPD_6/30/2019_7/13/2019 Payroll A 1813384 Journal Import Created PPD_7/13/2019_7/27/2019 Payroll A 1492022 Journal Import Created PPD_7/12/2019_7/27/2019 Payroll A 1492022 Journal Import Created PPD_7/12/2019_8/10/2019 Payroll A 1492022 Journal Import Created PPD_7/12/2019_8/10/2019 Payroll A 1492022 Journal Import Created PPD_8/21/2019_8/10/2019 Payroll A 159223 Journal Import Created PPD_8/21/2019_8/10/2019 Payroll A 159223 Journal Import Created PPD_8/21/2019_8/10/2019 Payroll A 159758 Journal Import Created PPD_8/21/2019_9/21/2019 Payroll A 159759 Journal Import Created PPD_9/2019_9/21/2019 Payroll A 159759 Journal Import Created PPD_9/2019_9/21/2019 Payroll A 159759 Journal Import Created PPD_9/2019_9/21/2019 Payroll A 1617565 Journal Import Created
02 - Fringe 02 -	Group Insurance - Med & D Group Ins - Medical Grad Worker's Compensation Worker's Compensation Worker's Compensation Worker's Compensation Worker's Compensation Worker's Compensation Worker's Compensation	2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188	970.84 970.84 970.84 286.83 286.83 286.83 1,967.00 76.04 76.04 76.04 76.04 76.04 76.04 76.04 76.04 76.04 7.49 39.86	11/15/2019 12/27/2019 12/27/2019 6/12/2020 6/26/2020 2/21/2020 7/26/2019 8/9/2019 8/23/2019 9/6/2019 9/6/2019 9/20/2019 10/18/2019 10/18/2019	PPD_01/2019_11/2/2019 Payroll A 163033 lournal import Created PPD_12/29/2019_11/12/2009 Payroll A 172881 Journal import Created PPD_12/29/2019_11/12/2020 Payroll A 172881 Journal import Created PPD_5/17/2020_6/30/2020 Payroll A 172881 Journal import Created PPD_5/17/2020_6/30/2020 Payroll A 172881 Journal import Created PPD_5/17/2020_6/3/2020 Payroll A 1813384 N Journal import Created PPD_6/30/2019_7/13/2019 Payroll A 1813384 N Journal import Created PPD_6/30/2019_7/13/2019 Payroll A 1492028 Journal import Created PPD_6/30/2019_7/13/2019 Payroll A 1492028 Journal import Created PPD_7/14/2019_7/27/2019 Payroll A 1492028 Journal import Created PPD_7/12/2019_8/24/2019 Payroll A 1492028 Journal import Created PPD_8/11/2019_8/24/2019_8/2019 Payroll A 1492028 Journal import Created PPD_8/12/1019_8/24/2019 Payroll A 159208 Journal import Created PPD_8/12/1019_8/24/2019 Payroll A 159208 Journal import Created PPD_8/12/1019_8/24/2019_8/2019 Payroll A 159708 Nournal import Created PPD_8/12/1019_9/2019_8/2010 A 159708 Nournal import Created PPD_9/22/2019_9/7/2019 Payroll A 159708 Nournal import Created PPD_9/22/2019_9/7/2019 Payroll A 159708 Nournal import Created PPD_9/2/2019_10/5/2019 Payroll A 1617656 Journal import Created PPD_9/2/2019_10/5/2019 Payroll A 1617656 Journal import Created PPD_9/2/2019_10/12/1019 Payroll A 1
02 - Fringe 02 - Fringe	Group Insurance - Med & D Group Ins - Medical Grad Worker's Compensation Worker's Compensation Worker's Compensation Worker's Compensation Worker's Compensation Worker's Compensation Worker's Compensation Worker's Compensation Worker's Compensation	2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188	970.84 970.84 970.84 286.83 286.83 1,967.00 76.04 76.04 76.04 76.04 76.04 76.04 7.6.04 7.49 7.49 7.49 39.86 7.2.23	11/15/2019 12/27/2019 1/24/2020 6/12/2020 6/26/2020 2/21/2020 7/26/2019 8/32/2019 9/6/2019 9/6/2019 9/6/2019 10/4/2019 10/4/2019 11/1/2019 11/15/2019	PPD_10/20/2019_11/1/2019 Payroll A 163033 lournal import Created PPD_12/29/2019_11/11/2020 Payroll A 172891 PPD_15/29/2019_11/11/2020 Payroll A 172891 PPD_5/17/2020_5/30/2020 Payroll A 172891 PPD_5/17/2020_5/30/2020 Payroll A 203051 Journal Import Created PPD_5/21/2020_2/8/2020 Payroll A 1813384 N Journal Import Created PPD_5/21/2020_2/8/2020 Payroll A 1813384 N Journal Import Created PPD_5/21/2019_7/13/2019 Payroll A 1813384 N Journal Import Created PPD_5/21/2019_7/13/2019 Payroll A 143238 J Journal Import Created PPD_5/31/2020_9/13/2019 Payroll A 143238 J Journal Import Created PPD_5/28/2019_8/10/2019 Payroll A 152238 J Journal Import Created PPD_5/28/2019_8/10/2019 Payroll A 1532788 J Journal Import Created PPD_8/25/2019_8/10/2019 Payroll A 153798 N Journal Import Created PPD_8/25/2019_9/12/1019 Payroll A 153798 N Journal Import Created PPD_9/8/2019_9/21/2019 Payroll A 153798 N Journal Import Created PPD_9/21/2019_1019/2019 Payroll A 153798 N Journal Import Created PPD_9/21/2019_1019/2019 Payroll A 153798 J Journal Import Created PPD_10/20/2019_11/2/2019 Payroll A 156303 Journal Import
02 - Fringe 02 - Fringe	Group Insurance - Med & D Group Ins - Medical Grad Worker's Compensation Worker's Compensation	2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188	970.84 970.84 970.84 286.83 286.83 1,967.00 76.04 76.04 76.04 76.04 76.04 76.04 76.04 76.04 76.04 76.04 76.04 76.9 7.49 39.86 72.23	11/15/2019 12/27/2019 1/24/2020 6/12/2020 2/21/2020 2/21/2020 7/26/2019 8/9/2019 9/6/2019 9/6/2019 10/4/2019 10/18/2019 11/1/2019 11/15/2019	PPD_10/20/2019_11/2/2019 Payroll A 163033 Journal Import Created PPD_12/2/109_12/11/2020 Payroll A 177883 Journal Import Created PPD_5/37/2020_5/30/2020 Payroll A 2007658 Journal Import Created PPD_5/31/2020_6/13/2020 Payroll A 2007658 Journal Import Created PPD_5/31/2020_6/13/2020 Payroll A 2007658 Journal Import Created PPD_5/31/2020_7/31/2020 Payroll A 1813384 Journal Import Created PPD_5/31/2020_7/31/2019 Payroll A 1472339 Journal Import Created PPD_6/30/2019_7/13/2019 Payroll A 1472339 Journal Import Created PPD_7/2/8/2019_8/10/2019 Payroll A 1472339 Journal Import Created PPD_7/2/8/2019_8/10/2019 Payroll A 147239 Journal Import Created PPD_7/2/8/2019_8/10/2019 Payroll A 157259 Journal Import Created PPD_8/5/2019_9/7/2019 Payroll A 157259 Journal Import Created PPD_8/5/2019_9/7/2019 Payroll A 157358 Nournal Import Created PPD_9/2/2/2019_10/5/2019 Payroll A 157569 PPD_9/2/2/2019_10/5/2019 Payroll A 156356 Journal Import Created PPD_9/2/2/2019_10/5/2019 Payroll A 166356 Journal Import Created PPD_9/2/2/2019_10/5/2019 Payroll A 166356 Journal Import Created PPD_10/2/2/2019_11/2/2019 Payroll A 166356 Journal Import Created
02 - Fringe 02 - Fringe	Group Insurance - Med & D Group Ins- Medical Grad Worker's Compensation Worker's Compensation	2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188	970.84 970.84 970.84 286.83 286.83 286.83 1,967.00 76.04 76.04 76.04 76.04 76.04 76.04 76.04 76.04 76.04 7.49 39.86 7.2.23 72.23 72.23	11/15/2019 12/27/2019 12/27/2019 6/26/2020 6/26/2020 2/21/2020 7/26/2019 8/9/2019 8/23/2019 9/6/2019 9/6/2019 9/20/2019 10/4/2019 11/1/2019 11/1/2019 11/1/2019	PPD_12/2/019_12/14/2019 Payroll A 163033 lournal Import Created PPD_12/2/2019_12/12/020 Payroll A 17383 Journal Import Created PPD_5/17/2020_5/30/2020 Payroll A 17383 Journal Import Created PPD_5/17/2020_5/30/2020 Payroll A 173383 Journal Import Created PPD_5/17/2020_5/30/2020 Payroll A 17338 Journal Import Created PPD_5/17/2020_6/30/2020 Payroll A 147338 Journal Import Created PPD_5/17/2020_2/8/2020 Payroll A 147338 Journal Import Created PPD_5/2/2020_2/8/2020 Payroll A 1472339 Journal Import Created PPD_6/30/2019_7/13/2019 Payroll A 1472339 Journal Import Created PPD_6/30/2019_8/10/2019 Payroll A 1472339 Journal Import Created PPD_8/12/2019_8/20/2019 Payroll A 1592020 Journal Import Created PPD_8/12/2019_8/20/2019 Payroll A 1573798 Journal Import Created PPD_8/21/2019_8/2019 Payroll A 1573798 Journal Import Created PPD_9/2/2019_9/21/2019 Payroll A 1573798 Journal Import Created PPD_9/2/2019_9/21/2019 Payroll A 1573798 Journal Import Created PPD_9/2/2019_9/21/2019 Payroll A 156303 Journal Import Created PPD_9/2/2019_9/21/2019 Payroll A 156303 Journal Import Created PPD_110/12/2019_10/19/2019 Payroll A 166303 Journal Import Created <t< td=""></t<>
02 - Fringe 02 -	Group Insurance - Med & D Group Ins- Medical Grad Worker's Compensation Worker's Compensation	2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188	970.84 970.84 970.84 286.83 286.83 1.967.00 76.04 76.04 76.04 76.04 76.04 76.04 7.6.04 7.49 7.49 7.49 7.23 7.23 69.87	11/15/2019 12/27/2019 1/24/2020 6/12/2020 6/26/2020 2/21/2020 7/26/2019 8/32/2019 9/6/2019 9/6/2019 9/20/2019 10/18/2019 10/18/2019 11/12/2019 11/15/2019 11/15/2019 12/13/2019	PPD_12/2/019_11/2/019 Payroll A 163033 lournal import Created PPD_12/2/2019_12/12/020 Payroll A 172831 Journal import Created PPD_12/2/2019_11/12/020 Payroll A 172831 Journal import Created PPD_5/17/2020_5/30/2020 Payroll A 1203051 Journal import Created PPD_5/17/2020_5/30/2020 Payroll A 12033051 Journal import Created PPD_5/17/2020_6/30/2020 Payroll A 1813384 N Journal import Created PPD_5/2/0202_7/8/2020 Payroll A 1813384 N Journal import Created PPD_6/30/2019_7/13/2019 Payroll A 1472333 Journal import Created PPD_7/14/2019_7/27/2019 Payroll A 1472333 Journal import Created PPD_7/14/2019_3/27/2019 Payroll A 1472333 Journal import Created PPD_8/12/2019_8/27/2019 Payroll A 1472333 Journal import Created PPD_8/12/12/019_8/27/2019 Payroll A 157378 N Journal import Created PPD_8/12/12/019_9/2/12/019 Payroll A 157378 N Journal import Created PPD_9/2/2019_9/7/2019 Payroll A 157378 N Journal import Created PPD_9/2/2019_9/7/2019 Payroll A 157378 N Journal import Created PPD_9/2/2019_10/5/2019 Payroll A 156303 Journal import Created PPD_10/6/2019_9/12/1019 Payroll A 1640531 Journal Import Created PPD_110/2/019_11/2/019 Payroll A 1640531 Journal import Created PPD_110/2/019_11/12/019 Payroll A 1640531 Journal import Created PPD_111/12/019 Payroll A 1640531 Journal import Created PPD_110/12/12/019 Payroll A 1640531 Journal
02 - Fringe 02 -	Group Insurance - Med & D Group Ins - Medical Grad Worker's Compensation Worker's Compensation	2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188	970.84 970.84 970.84 286.83 286.83 286.83 1.967.00 76.04 76.04 76.04 76.04 76.04 76.04 76.04 7.6.04 7.49 7.49 7.49 7.22 39.86 72.23 69.87 69.86	11/15/2019 12/27/2019 1/24/2020 6/12/2020 6/26/2020 2/21/2020 7/26/2019 8/3/2019 8/3/2019 9/6/2019 9/6/2019 10/4/2019 10/4/2019 11/15/2019 11/15/2019 11/15/2019 11/15/2019 12/13/2019 12/13/2019 12/27/2019	PPD_10/20/2019_11/2/2019 Payroll A 163033 Journal Import Created PPD_12/2/12/12/12/12/12/12/12/12/12/12/12/12
02 - Fringe 02 -	Group Insurance - Med & D Group Ins - Medical Grad Worker's Compensation Worker's Compensation	2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188	970.84 970.84 970.84 286.83 286.83 1,967.00 76.04 76.04 76.04 76.04 76.04 76.04 76.04 76.04 76.04 76.04 7.49 7.49 39.86 72.23 69.87 69.87 69.87	11/15/2019 12/27/2019 12/27/2019 12/27/2020 6/12/2020 6/12/2020 2/21/2020 2/21/2020 2/21/2020 8/3/2019 9/6/2019 9/6/2019 9/6/2019 10/18/2019 11/12/2019 11/12/2019 12/13/2019 12/13/2019 12/27/2020 12/27/2	PPD_10/20/2019_11/1/2019 Payroll A 163033 [ournal Import Created PPD_12/2/2019_11/11/2020 Payroll A 172881 Journal Import Created PPD_5/17/2020_5/30/2020 Payroll A 772881 Journal Import Created PPD_5/17/2020_5/30/2020 Payroll A 203051 Journal Import Created PPD_15/2020_0/3/2020 Payroll A 12033051 Journal Import Created PPD_15/2020_0/3/2020 Payroll A 12033051 Journal Import Created PPD_16/30/2019_7/13/2019 Payroll A 1472333 Journal Import Created PPD_5/12/2019_7/21/2019 Payroll A 1472333 Journal Import Created PPD_5/12/2019_7/12/2019 Payroll A 1457235 Journal Import Created PPD_8/12/12/2019_8/12/2019 Payroll A 1547255 Journal Import Created PPD_8/2/12/2019_9/7/12/2019 Payroll A 153798N Journal Import Created PPD_9/2/2/2019_9/7/12/2019 Payroll A 1547255 Journal Import Created PPD_9/2/2/2019_10/5/2019 Payroll A 1547255 Journal Import Created PPD_9/2/2/2019_10/5/2019 Payroll A 1547255 Journal Import Created PPD_9/2/2/2019_10/5/2019 Payroll A 1547255 Journal Import Created PPD_10/2/2019_11/5/2019 Payroll A 156303 Journal Import Created PPD_11/2/2019_11/15/2019 Payroll A 156303 Journal Import Created PPD_11/2/2019 Payroll A 156
02 - Fringe 02 -	Group Insurance - Med & D Group Ins- Medical Grad Worker's Compensation Worker's Compensation	2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188	970.84 970.84 970.84 286.83 286.83 286.83 1,967.00 76.04 76.04 76.04 76.04 76.04 76.04 76.04 7.6.04 7.6.04 7.49 39.86 72.23 72.23 69.87 69.87 69.87 69.87 69.87 69.87 69.87	11/15/2019 12/27/2019 1/24/2020 6/26/2020 2/21/2020 7/26/2019 8/9/2019 8/23/2019 9/6/2019 9/6/2019 9/6/2019 9/6/2019 10/18/2019 10/18/2019 11/12/2019 11/15/2019 11/15/2019 12/27/2019 12/27/2019 12/27/2019	PPD_10/20/2019_11/1/2019 Payroll A 156303_iournal import Created PPD_12/29/2019_11/11/2020 Payroll A 171388_journal import Created PPD_12/29/2019_11/11/2020 Payroll A 2007658 PPD_5/17/2020_5/30/2020 Payroll A 2007658 Journal import Created PPD_12/29/2019_11/11/2020 Payroll A 12033051 PPD_5/17/2020_5/30/2020 Payroll A 2033051 Journal import Created PPD_12/26/2020_2/8/2020 Payroll A 12033051 PPD_12/26/2020_2/8/2020 Payroll A 1472339 Journal import Created PPD_7/14/2019_7/27/2019 Payroll A 1472339 PPD_7/14/2019_7/27/2019 Payroll A 152329 Journal import Created PPD_8/12/2019_8/24/2019_Payroll A 152329 Journal import Created PPD_8/12/2019_9/2019 Payroll A 1573798 Normal import Created PPD_9/2/2019_9/2019 Payroll A 1573798 Normal import Created PPD_9/2/2/2019_9/2019 Payroll A 156303 Journal import Created PPD_9/2/2/2019_9/2/1019 Payroll A 164051 Journal import Created PPD_11/1/2019 Payroll A 164053 Journal import Created PPD_11/1/2019_11/3/2019 Payroll A 164053 Journal import Created PPD_11/2/1019_11/3/2019 Payroll A 164053 Journal import Created PPD_11/1/2019_11/3/2019 Payroll A 17838 Journal import Created PPD_11/1/2019_1019 Payroll A 17838 Jour
02 - Fringe 02 -	Group Insurance - Med & D Group Ins- Medical Grad Worker's Compensation Worker's Compensation	2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188 2000001188	970.84 970.84 970.84 286.83 286.83 1,967.00 76.04 76.04 76.04 76.04 76.04 76.04 76.04 7.6.04 7.49 7.49 7.49 7.49 7.23 72.23 69.87 69.87 69.87 69.87 69.87 69.87 8.64	11/15/2019 12/27/2019 1/24/2020 6/12/2020 2/21/2020 7/26/2019 8/32/2019 8/32/2019 9/6/2019 9/6/2019 9/6/2019 9/6/2019 10/4/2019 10/4/2019 11/15/2019 11/15/2019 11/15/2019 11/15/2019 11/15/2019 12/13/2019 12/13/2019 12/27/2019 1/10/2020 1/24/2020 2/21/2020	PPD_10/20/2019_11/12/2019 Payroll A 178830_journal import Created PPD_12/29/19_12/14/2019 Payroll A 17788 PPD_12/29/1019_12/11/2020 Payroll A 17788 PPD_5/17/2020_5/30/2020 Payroll A 17788 PPD_5/17/2020_5/30/2020 Payroll A 100rral import Created PPD_5/17/2020_6/13/2020 Payroll A 100rral import Created PPD_12/29/2020_6/13/2020 Payroll A 1407239 PPD_12/5/2020_2/8/2020 Payroll A 147239 Journal import Created PPD_7/14/2019_7/27/2019 Payroll A 147239 Journal import Created PPD_7/14/2019_7/27/2019 Payroll A 147239 Journal import Created PPD_7/14/2019_8/10/2019 Payroll A 1547259 Journal import Created PPD_8/5/2019_9/7/2019 Payroll A 1547259 Journal import Created PPD_9/2/2019_9/7/2019 Payroll A 1547259 Journal import Created PPD_9/2/2019_9/7/2019 Payroll A 154755 Journal import Created PPD_11/2/2019_10/3/2019 Payroll A 1617565 Journal import Created PPD_12/2/2019_10/5/2019 Payroll A 1617565 Journal import Created PPD_12/2/2019_11/3/2019 Payroll A 1616765 Journal import Created PPD_12/1/2/2019_11/3/2019 Payroll A 171788
02 - Fringe 02 -	Group Insurance - Med & D Group Ins- Medical Grad Worker's Compensation Worker's Compensation	2000001188 2000001188	970.84 970.84 970.84 286.83 286.83 1,967.00 76.04 76.04 76.04 76.04 76.04 7.6.04 7.6.04 7.49 7.49 7.49 7.49 39.86 72.23 69.87 69.87 69.87 69.87 69.87 69.87 8.64 8.64	11/15/2019 12/27/2019 1/24/2020 6/12/2020 2/21/2020 2/21/2020 7/26/2019 8/3/2019 9/20/2019 9/20/2019 10/4/2019 10/4/2019 10/4/2019 11/15/2019 11/15/2019 11/15/2019 11/15/2019 11/15/2019 12/27/2019 12/27/2019 12/27/2019 12/27/2019 12/27/2019 12/27/2019 12/22/2020 2/21/2020	PPD 1/20/2019 1/12/2019 Payroll A 165033 Journal Import Created PPD 1/21/2019 1/21/2019 Journal Import Created PPD 1/21/2019 1/11/2020 Payroll A 2007658 Journal Import Created PPD 5/31/2020 6/31/2020 Payroll A 2007658 Journal Import Created PPD 1/26/2020 2/8/2020 Payroll A 181384 Mournal Import Created PPD 1/26/2020 2/8/2020 Payroll A 1472339 Journal Import Created PPD 7/1/2019 Payroll A 1472339 Journal Import Created PPD 7/1/2019 Payroll A 152229 Journal Import Created PPD 7/1/2019 Payroll A 15229 Journal Import Created PPD 9/2/2019 9/2/1/2019 Payroll A 153789 Nournal Import Created PPD 1/2/2019 Payroll A 153789 Nournal Import Created PPD 1/2/2019 Payroll A 163786 Journal Import Created PPD 1/2/2019 Payroll A 163786 Journal Import Created PPD 1/2/2019 Payroll A 163786 Journal Import Created PP
02 - Fringe 02 -	Group Insurance - Med & D Group Ins - Medical Grad Worker's Compensation Worker's Compensation	2000001188 2000001188	970.84 970.84 970.84 286.83 286.83 286.83 1,967.00 76.04 76.04 76.04 76.04 76.04 76.04 76.04 76.04 7.6.04 7.6.04 7.49 39.86 72.23 39.86 99.87 69.87 69.87 69.87 69.87 8.64 8.64 8.64	11/15/2019 12/27/2019 12/27/2019 12/27/2020 6/26/2020 2/21/2020 7/26/2019 8/32/2019 8/32/2019 9/6/2019 9/6/2019 9/6/2019 9/6/2019 10/18/2019 11/12/2019 11/12/2019 11/12/2019 11/12/2019 12/27/2020 2/7/2020 2/7/2020	PPD_1/2/2019_11/1/2019 Payroll A 165303 journal import Created PPD_12/2/12/19_12/14/2019 Payroll A 172891 journal import Created PPD_12/2/2019_11/1/2020 Payroll A 127891 journal import Created PPD_5/31/2020_5/30/2020 Payroll A 2007658 journal import Created PPD_12/5/2020_78/2010 Payroll A 12783384 Nournal import Created PPD_12/5/2020_78/2010 Payroll A 1473384 Nournal import Created PPD_72/27/2019 Payroll A 1473384 Nournal import Created PPD_72/27/2019 Payroll A 1472339 journal import Created PPD_72/27/2019 Payroll A 147239 journal import Created PPD_72/27/2019 Payroll A 1547259 journal import Created PPD_72/27/2019 Payroll A 1547259 journal import Created PPD_98/27/2019 Payroll A 1547259 journal import Created PPD_98/27/2019 Payroll A 1547259 journal import Created PPD_98/27/2019 Payroll A 1547259 journal import Created PPD_91/2/2019 Payroll A 1547259 journal import Created PPD_91/2/2019 Payroll A 155739 N Journal import Created PPD_10/2019 10/19/2019 Payroll A 15685 journal import Created PPD_11/2/2019 Payroll A 164051 journal import Created PPD_11/2/2019 Payroll A 164053 journal import Created PPD_11/2/2019 Payroll A 164053 journal import Created PPD_11/2/2019 Payroll A 17488 journal import Created PPD_11/2/2019 Payroll A 17488 journal import Cr
02 - Fringe 02 -	Group Insurance - Med & D Group Ins - Medical Grad Worker's Compensation Worker's Compensation	2000001188 2000001188	970.84 970.84 970.84 286.83 286.83 1,967.00 76.04 76.04 76.04 76.04 76.04 7.6.04 7.6.04 7.49 7.49 7.49 7.49 39.86 72.23 69.87 69.87 69.87 69.87 69.87 69.87 8.64 8.64	11/15/2019 12/27/2019 12/27/2019 12/27/2020 6/26/2020 2/21/2020 7/26/2019 8/32/2019 8/32/2019 9/6/2019 9/6/2019 9/6/2019 9/6/2019 10/18/2019 11/12/2019 11/12/2019 11/12/2019 11/12/2019 12/27/2020 2/7/2020 2/7/2020	PPD 1/20/2019 1/12/2019 Payroll A 165033 Journal Import Created PPD 1/21/2019 1/21/2019 Journal Import Created PPD 1/21/2019 1/11/2020 Payroll A 2007658 Journal Import Created PPD 5/31/2020 6/31/2020 Payroll A 2007658 Journal Import Created PPD 1/26/2020 2/8/2020 Payroll A 181384 Mournal Import Created PPD 1/26/2020 2/8/2020 Payroll A 1472339 Journal Import Created PPD 7/1/2019 Payroll A 1472339 Journal Import Created PPD 7/1/2019 Payroll A 152229 Journal Import Created PPD 7/1/2019 Payroll A 15229 Journal Import Created PPD 9/2/2019 9/2/1/2019 Payroll A 153789 Nournal Import Created PPD 1/2/2019 Payroll A 153789 Nournal Import Created PPD 1/2/2019 Payroll A 163786 Journal Import Created PPD 1/2/2019 Payroll A 163786 Journal Import Created PPD 1/2/2019 Payroll A 163786 Journal Import Created PP

	Worker's Compensation	2000001188	8.64	4/17/2020	PPD_3/22/2020_4/4/2020 Payroll A 1912741 N	
02 - Fringe	Worker's Compensation	2000001188	8.64	5/1/2020	PPD_4/5/2020_4/18/2020 Payroll A 1936587 N	Journal Import Created
02 - Fringe	Worker's Compensation	2000001188	8.64	5/15/2020	PPD_4/19/2020_5/2/2020 Payroll A 1957265 N	
02 - Fringe	Worker's Compensation	2000001188	8.64	5/29/2020	PPD_5/3/2020_5/16/2020 Payroll A 1982147 N	Journal Import Created
02 - Fringe	Worker's Compensation	2000001188	34.57	6/12/2020	PPD_5/17/2020_5/30/2020 Payroll A 2007658	
02 - Fringe	Worker's Compensation	2000001188	35.93	6/26/2020	PPD_5/31/2020_6/13/2020 Payroll A 2033051	Journal Import Created
02 - Fringe	Employer Retirement Contr	2000001188	173.44	7/26/2019	PPD_6/30/2019_7/13/2019 Payroll A 1472339	Journal Import Created
02 - Fringe	Employer Retirement Contr	2000001188	173.44	8/9/2019	PPD_7/14/2019_7/27/2019 Payroll A 1490202	Journal Import Created
02 - Fringe	Employer Retirement Contr	2000001188	173.44	8/23/2019	PPD_7/28/2019_8/10/2019 Payroll A 1522239	Journal Import Created
02 - Fringe	Employer Retirement Contr	2000001188	173.44	9/6/2019	PPD_8/11/2019_8/24/2019 Payroll A 1547259	Journal Import Created
02 - Fringe	Employer Retirement Contr	2000001188	173.44	9/20/2019	PPD_8/25/2019_9/7/2019 Payroll A 1573798 N	Journal Import Created
02 - Fringe	Employer Retirement Contr	2000001188	173.44	10/4/2019	PPD_9/8/2019_9/21/2019 Payroll A 1597100 N	Journal Import Created
02 - Fringe	Employer Retirement Contr	2000001188	173.44	10/18/2019	PPD_9/22/2019_10/5/2019 Payroll A 1617565	Journal Import Created
02 - Fringe	Employer Retirement Contr	2000001188	173.44	11/1/2019	PPD_10/6/2019_10/19/2019 Payroll A 1640510	Journal Import Created
02 - Fringe	Employer Retirement Contr	2000001188	173.44	11/15/2019	PPD_10/20/2019_11/2/2019 Payroll A 1663033	Journal Import Created
02 - Fringe	Employer Retirement Contr	2000001188	173.44	11/29/2019	PPD_11/3/2019_11/16/2019 Payroll A 168665	Journal Import Created
02 - Fringe	Employer Retirement Contr	2000001188	173.44	12/13/2019	PPD_11/17/2019_11/30/2019 Payroll A 17138	Journal Import Created
02 - Fringe	Employer Retirement Contr	2000001188	173.44	12/27/2019	PPD_12/1/2019_12/14/2019 Payroll A 1728919	Journal Import Created
02 - Fringe	Employer Retirement Contr	2000001188	173.44	1/10/2020	PPD_12/15/2019_12/28/2019 Payroll A 17497	Journal Import Created
02 - Fringe	Employer Retirement Contr	2000001188	173.44	1/24/2020	PPD_12/29/2019_1/11/2020 Payroll A 177188	Journal Import Created
02 - Fringe	Employer Retirement Contr	2000001188	600.70	6/12/2020	PPD_5/17/2020_5/30/2020 Payroll A 2007658	
02 - Fringe	Employer Retirement Contr	2000001188	600.70	6/26/2020	PPD_5/31/2020_6/13/2020 Payroll A 2033051	
02 - Fringe	Retirement Sick Leave	2000001188	10.40	7/26/2019	PPD_6/30/2019_7/13/2019 Payroll A 1472339	
02 - Fringe	Retirement Sick Leave	2000001188		8/9/2019	PPD_7/14/2019_7/27/2019 Payroll A 1490202	
02 - Fringe	Retirement Sick Leave	2000001188	10.40	8/23/2019	PPD_7/28/2019_8/10/2019 Payroll A 1522239	
02 - Fringe	Retirement Sick Leave	2000001188	10.40	9/6/2019	PPD 8/11/2019 8/24/2019 Payroll A 1547259	
02 - Fringe	Retirement Sick Leave	2000001188	10.40		PPD_8/25/2019_9/7/2019 Payroll A 1573798 N	
02 - Fringe	Retirement Sick Leave	2000001188	10.40	10/4/2019	PPD_9/8/2019_9/21/2019 Payroll A 1597100 N	
02 - Fringe	Retirement Sick Leave	2000001188	10.40		PPD_9/22/2019_10/5/2019 Payroll A 1617565	
02 - Fringe	Retirement Sick Leave	2000001188	10.40	11/1/2019	PPD_10/6/2019_10/19/2019 Payroll A 1640510	
02 - Fringe	Retirement Sick Leave	2000001188	10.40	11/15/2019	PPD 10/20/2019 11/2/2019 Payroll A 1663033	
02 - Fringe	Retirement Sick Leave	2000001188	10.40		PPD_11/3/2019_11/16/2019 Payroll A 168665	
02 - Fringe	Retirement Sick Leave	2000001188	10.40	12/13/2019	PPD_11/17/2019_11/30/2019 Payroll A 17138	
02 - Fringe	Retirement Sick Leave	2000001188	10.40	12/27/2019	PPD 12/1/2019 12/14/2019 Payroll A 1728919	
02 - Fringe	Retirement Sick Leave	2000001188	10.40	1/10/2020	PPD_12/15/2019_12/28/2019 Payroll A 17497	
02 - Fringe	Retirement Sick Leave	2000001188	10.40	1/24/2020	PPD_12/29/2019_1/11/2020 Payroll A 177188	
02 - Fringe	Unemployment Insurance	2000001188	4.16	7/26/2019	PPD_6/30/2019_7/13/2019 Payroll A 1472339	
02 - Fringe	Unemployment Insurance	2000001188	4.16	8/9/2019	PPD 7/14/2019 7/27/2019 Payroll A 1490202	
02 - Fringe	Unemployment Insurance	2000001188	4.16	8/23/2019	PPD 7/28/2019 8/10/2019 Payroll A 1522239	
02 - Fringe	Unemployment Insurance	2000001188	4.16		PPD_8/11/2019_8/24/2019 Payroll A 1547259	
02 - Fringe	Unemployment Insurance	2000001188	4.16	9/20/2019	PPD 8/25/2019 9/7/2019 Payroll A 1573798 N	
02 - Fringe	Unemployment Insurance	2000001188	2.08	10/4/2019	PPD 9/8/2019 9/21/2019 Payroll A 1597100 N	
02 - Fringe	Unemployment Insurance	2000001188	2.08	10/18/2019	PPD 9/22/2019 10/5/2019 Payroll A 1617565	
02 - Fringe	Unemployment Insurance	2000001188	3.07	11/1/2019	PPD_10/6/2019_10/19/2019 Payroll A 1640510	
02 - Fringe	Unemployment Insurance	2000001188	4.04	11/15/2019	PPD_10/20/2019_11/2/2019 Payroll A 166303	
02 - Fringe	Unemployment Insurance	2000001188	4.05	11/29/2019	PPD 11/3/2019 11/16/2019 Payroll A 1686655	
02 - Fringe	Unemployment Insurance	2000001188	3.97	12/13/2019	PPD 11/17/2019 11/30/2019 Payroll A 17138	
02 - Fringe	Unemployment Insurance	2000001188	3.97	12/27/2019	PPD_12/1/2019_12/14/2019 Payroll A 17138	
02 - Fringe	Unemployment Insurance	2000001188	3.97	1/10/2020	PPD_12/15/2019_12/28/2019 Payroll A 17497	
02 - Fringe	Unemployment Insurance	2000001188	3.98	1/24/2020	PPD_12/29/2019_1/11/2020 Payroll A 177188	
02 - Fringe	Unemployment Insurance	2000001188	1.20	2/7/2020	PPD 1/12/2020 1/25/2020 Payroll A 17/188	
02 - Fringe	Unemployment Insurance	2000001188	1.20	3/6/2020	PPD_2/9/2020_2/22/2020 Payroll A 1842597 N	
02 - Fringe	Unemployment Insurance	2000001188	1.20	4/3/2020	PPD_3/8/2020_3/21/2020 Payroll A 1842537 N	
02 - Fringe	Unemployment Insurance	2000001188	1.20	4/17/2020	PPD_3/22/2020_4/4/2020 Payroll A 1912741 N	
02 - Fringe 02 - Fringe	Unemployment Insurance	2000001188	1.20	5/29/2020	PPD 5/3/2020 5/16/2020 Payroll A 1912/41 N	
02 - Fringe 02 - Fringe	Unemployment Insurance	2000001188	9.48	6/12/2020	PPD 5/17/2020 5/30/2020 Payroll A 2007658	
02 - Fringe 02 - Fringe	Unemployment Insurance	2000001188	9.48	6/26/2020	PPD 5/31/2020 6/13/2020 Payroll A 2007638	
02 - Fringe 02 - Fringe	Social Security/Medicare	2000001188	244.80	7/26/2019	PPD_5/31/2020_6/13/2020 Payroll A 2033051 PPD_6/30/2019_7/13/2019 Payroll A 1472339	
02 - Fringe 02 - Fringe	Social Security/Medicare	2000001188	244.80	8/9/2019	PPD 7/14/2019 7/27/2019 Payroll A 1490202	
02 - Fringe 02 - Fringe	Social Security/Medicare	2000001188	244.80	8/23/2019	PPD_7/28/2019_8/10/2019 Payroll A 1430202 PPD_7/28/2019_8/10/2019 Payroll A 1522239	
02 - Fringe 02 - Fringe		2000001188	244.80	8/23/2019 9/6/2019	PPD_7/28/2019_8/10/2019 Payroll A 1522239 PPD_8/11/2019_8/24/2019 Payroll A 1547259	
02 - Fringe 02 - Fringe	Social Security/Medicare	2000001188	244.80	9/20/2019	PPD_8/11/2019_8/24/2019 Payroll A 154/259 PPD_8/25/2019_9/7/2019 Payroll A 1573798 N	
02 - Fringe 02 - Fringe	Social Security/Medicare Social Security/Medicare	2000001188	244.80 122.40	9/20/2019	PPD_8/25/2019_9/7/2019 Payroll A 1573/98 N PPD_9/8/2019_9/21/2019 Payroll A 1597100 N	
	<i>V</i>	2000001188	122.40	10/4/2019	PPD_9/8/2019_9/21/2019 Payroll A 159/100 N PPD_9/22/2019_10/5/2019 Payroll A 1617565	
02 - Fringe	Social Security/Medicare	2000001188	122.40			
02 - Fringe	Social Security/Medicare	2000001188	238.01		PPD_10/6/2019_10/19/2019 Payroll A 1640510	
02 - Fringe	Social Security/Medicare	2000001188 2000001188	238.01 238.00	11/15/2019 11/29/2019	PPD_10/20/2019_11/2/2019 Payroll A 166303	
02 - Fringe 02 - Fringe	Social Security/Medicare Social Security/Medicare	2000001188 2000001188	238.00 233.79	11/29/2019 12/13/2019	PPD_11/3/2019_11/16/2019 Payroll A 1686655	
	<i>.</i>	2000001188			PPD_11/17/2019_11/30/2019 Payroll A 17138	
	Social Security/Medicare	2000001188	233.78	12/27/2019	PPD_12/1/2019_12/14/2019 Payroll A 1728919	pournal import created

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02 - Fringe	Social Security/Medicare	2000001188	233.78		PPD_12/15/2019_12/28/2019 Payroll A 174973	
02 - Fringe	Social Security/Medicare	2000001188	233.78		PPD_12/29/2019_1/11/2020 Payroll A 177188	
02 - Fringe	Social Security/Medicare	2000001188	558.31	-1 1	PPD_5/17/2020_5/30/2020 Payroll A 2007658	
02 - Fringe	Social Security/Medicare	2000001188	558.30	6/26/2020	PPD_5/31/2020_6/13/2020 Payroll A 2033051	Journal Import Created
		Total Fringe:	\$ 18,559.54			
03 - Other Expense	Express Mail/Messenger	2000001188	29.06		Payables A 1562916000006 1562930 Y	FEDEX 33191787~Shipping Waste water samples for research project~~TXN00486075 FEDEX 33191787~Shipping Waste water samples for research project~~TXN00486075
03 - Other Expense	Building Services	2000001188	1,339.55			FM-243404 2/26/2020 RM 083-101 - ELECT: Please provide a quote to add a 220V outlet in the head house - Shay Gillette FM-243404 2/26/2020 RM 083-101 - ELECT: Pleas
03 - Other Expense	Medical & Laboratory Supp	2000001188	23.17	1.1	Payables A 1505471000005 1505483 Y	TFS FISHERSCI ECOM HUS~algae testing supplies for project ^{~~} TXN00483147 TFS FISHERSCI ECOM HUS~algae testing supplies for project ^{~~} TXN00483147
03 - Other Expense	Medical & Laboratory Supp	2000001188	56.13	1-1		TFS FISHERSCI ECOM HUS ⁻ algae testing supplies for project TXN00484009 TFS FISHERSCI ECOM HUS algae testing supplies for project TXN00484009
03 - Other Expense	Medical & Laboratory Supp	2000001188	217.08		Payables A 1505471000006 1505486 Y	VWR INTERNATIONAL INC*vials for algae TOC analysis***TXN00480020 VWR INTERNATIONAL INC*vials for algae TOC analysis***TXN00480020
03 - Other Expense	Medical & Laboratory Supp	2000001188	207.84			FRED-MEYER #0613~water storage containers^~TXN00489551 FRED-MEYER #0613~water storage containers^~TXN00489551
03 - Other Expense	Medical & Laboratory Supp	2000001188	97.82		Payables A 1562916000003 1562925 Y	THE HOME DEPOT 1806 recondary containment for water storage rTXN00491220 THE HOME DEPOT 1806 recondary containment for water storage rTXN00491220
03 - Other Expense	Medical & Laboratory Supp	2000001188			Payables A 1562916000003 1562925 Y	FRED-MEYER #0449*water storage containers***TXN00489591 FRED-MEYER #0449*water storage containers***TXN00489591
03 - Other Expense	Medical & Laboratory Supp	2000001188	41.89		Payables A 1562916000003 1562925 Y	THE HOME DEPOT #1806"materials for water sample collection" TXN00489917 THE HOME DEPOT #1806"materials for water sample collection" TXN00489917 THE HOME DEPOT #1806"materials for water sample collection to the sample coll
03 - Other Expense	Medical & Laboratory Supp	2000001188	3,161.18		Payables A 1562916000003 1562925 Y	HACH COMPANY probes for production of effluent for algae experiments TXN00485209 HACH COMPANY ⁻ probes for production of effluent for algae experiments TXN00485209 HACH COMPANY ⁻ probes for production of effluent for algae experiments TXN0
03 - Other Expense	Medical & Laboratory Supp	2000001188	75.92		Payables A 1562916000003 1562925 Y	THE HOME DEPOT #1806*water storage containers***TXN00491554 THE HOME DEPOT #1806*water storage containers***TXN00491554
03 - Other Expense	Medical & Laboratory Supp Medical & Laboratory Supp	2000001188 2000001188	190.44 23.94		Payables A 1589162000001 1589163 Y Payables A 1589162000001 1589163 Y	CORR009262 - HACH COMPANY~supplies for algae cultivation~TXN00488820 CORR009262 - HACH COMPANY~supplies for algae cultivation~TXN00488820 CORR009263 - OFFICESUPPLY.COM~supplies for algae cultivation~TXN00487165 CORR009263 - OFFICESUPPLY.COM~supplies for algae cultivation~TXN00487165
03 - Other Expense		2000001188	23.94 51.96		Payables A 1609056000002 1609061 Y	CURROUS263 - OFFICESUPPTY.COM*Supplies for algae cultivation***TXN00497/65 CREADES - OFFICESUPPTY.COM*Supplies for algae cultivation***TXN00497/65 CREADES - OFFICESUPPTY.COM*Supplies for algae cultivation***TXN00497/65 CREADES - OFFICESUPPTY.COM*Supplies for algae cultivation***TXN00497/62 CREADES - OFFICESUPPTY.COM*Supplies for algae cultivation***TXN00497/65 CREADES - OFFICESUPPTY.COM*Supplies for algae cultivation***TXN00497/65 CREADES - OFFICESUPPTY.COM*Supplies for algae cultivation***TXN00497/62 CREADES - OFFICESUPPTY.COM*Supplies for algae cultivation************************************
03 - Other Expense 03 - Other Expense	Medical & Laboratory Supp Medical & Laboratory Supp	2000001188	-35.98		Payables A 1609056000002 1609061 Y Payables A 1609056000002 1609061 Y	http://mktrk.mbiii.stwater.storage.containers.ror.wastewater="1xN00492/zdz_tktp://mktrk.mbiii.stwater.storage.containers.ror.wastewater="1xN00492/zdz" DICKS.SPORTING GODOS1202*return of unused water containers="TXN00500063 DICKS.SPORTING GODOS1202"return of unused water.containers="TXN00500063
03 - Other Expense	Medical & Laboratory Supp	2000001188	-35.98 71.46		Payables A 1609056000002 1609061 Y Payables A 1609056000002 1609061 Y	DICKS SPORTING GOODST202 Teturn of unused water containers "TANODSOUGE DICKS SPORTING GOODST202 Teturn of unused water containers" TANODSOUGE DICKS SPORTING GOODST202 Teturn of unused water containers "TANODSOUGE DICKS SPORTING GOODST202 Teturn of unused water containers" TANODSOUGE DICKS SPORTING GOODST202 Teturn of unused water containers "TANODSOUGE DICKS SPORTING GOODST202 Teturn of unused water containers "TANODSOUGE DICKS SPORTING GOODST202 Teturn of unused water containers "TANODSOUGE DICKS SPORTING GOODST202 Teturn of unused water containers "TANODSOUGE DICKS SPORTING GOODST202 Teturn of unused water containers "TANODSOUGE DICKS SPORTING GOODST202 Teturn of unused water containers "TANODSOUGE DICKS SPORTING GOODST202 Teturn of unused water containers "TANODSOUGE DICKS SPORTING GOODST202 Teturn of unused water containers "TANODSOUGE DICKS SPORTING GOODST202 Teturn of unused water containers "TANODSOUGE DICKS SPORTING GOODST202 Teturn of unused water containers "TANODSOUGE DICKS SPORTING GOODST202 Teturn of unused water containers "TANODSOUGE DICKS SPORTING GOODST202 Teturn of unused water containers "TANODSOUGE DICKS SPORTING GOODST202 Teturn of unused water containers "TANODSOUGE DICKS SPORTING GOODST202 Teturn of unused water containers "TANODSOUGE DICKS SPORTING GOODST202 Teturn of unused water containers "TANODSOUGE DICKS SPORTING GOODST202 Teturn of unused water containers "TANODSOUGE DICKS SPORTING GOODST202 Teturn of unused water containers "TANODSOUGE DICKS SPORTING GOODST202 Teturn of unused water containers "TANODSOUGE DICKS SPORTING GOODST202 Teturn of unused water containers "TANODSOUGE DICKS SPORTING GOODST202 Teturn of unused water containers "TANODSOUGE DICKS SPORTING GOODST202 Teturn of unused water containers "TANODSOUGE DICKS SPORTING GOODST202 Teturn of unused water containers "TANODSOUGE DICKS SPORTING GOODST202 Teturn of unused water containers "TANODSOUGE DICKS SPORTING GOODST202 Teturn of unused water containers "TANODSOUGE DICKS SPORTING GOODST202 Teturn of unused tetur dicks SPOR
03 - Other Expense	Medical & Laboratory Supp	2000001188	219.03		Payables A 1609056000002 1609061 Y Payables A 1609056000002 1609061 Y	VWK INVERNATIONAL INC Supplies for algae TOL analysis ~ TANOU495258 VWK INTERNATIONAL INC Supplies for algae TOL analysis ~ TANOU495258 TFS FISHERSCI ECOM HUS*algae cultivation supplies************************************
03 - Other Expense	Medical & Laboratory Supp	2000001188	619.34		Payables A 1609056000002 1609061 Y Payables A 1609056000002 1609061 Y	ITS FISHERSCI ECOM HOS algae Cultivation supplies "TANOD495199 ITS FISHERSCI ECOM HOS algae Cultivation supplies" TANOD495199
03 - Other Expense	Medical & Laboratory Supp	2000001188	209.33		Payables A 1712893000005 1712901 Y	The strategy country applies of the measurement kits**TXN00512742 TF5 FISHERSCI ECOM H05*ammonia measurement kits**TXN00512742
03 - Other Expense	Medical & Laboratory Supp	2000001188	257.28		Payables A 1712893000005 1712901 Y	Trs robrins de Color Hos animolna intessuremient Kits i Anvosi 2/42 (rs robrins) animolna intessurement chemicals (rs robrins) animolna (rs robrins) animolna intessurement chemicals (rs robrins) animolna (rs
03 - Other Expense	Medical & Laboratory Supp	2000001188	580.66			The off Command in the same metric memory is a same of the same of
03 - Other Expense	Medical & Laboratory Supp	2000001188	71.37		Payables A 1802127000003 1802132 Y	TS FISHERSCI ECOM HUS malage culturation testing matrials TXN00522955 TFS FISHERSCI ECOM HUS algae culturation testing matrials TXN00522955
03 - Other Expense	/ 11	2000001188	79.72		· · ·	TSFISHERSCI ECOM HUS algee cultivation testing matrials "TANODS2293 TSFISHERSCI ECOM HUS" algee cultivation testing matrials "TANODS2293 TSFISHERSCI ECOM HUS" algee cultivation testing matrials "TANODS2294 TSFISHERSCI ECOM HUS" algee t
03 - Other Expense	Medical & Laboratory Supp	2000001188	71.25		Payables A 1802127000003 1802132 Y	TSFISHERSCIECOM HUS agae cultivation testing matrials "TXN00526671 TSFISHERSCI ECOM HUS" agae cultivation testing matrials "TXN00526671
03 - Other Expense	Medical & Laboratory Supp	2000001188	180.00			BOISE COLD STORAGECOMPANY*storage of cultivation media for algae***TXN00532605 BOISE COLD STORAGECOMPANY*storage of cultivation media for algae***TXN00532
03 - Other Expense	Medical & Laboratory Supp	2000001188	962.66		Payables A 1855059000008 1855092 Y	The SIGNED Sector Status of the Signed Status of th
03 - Other Expense	Medical & Laboratory Supp	2000001188	313.23			HACH COMPANY~Algae cultivation and testing supplies ~~TXN00537564 HACH COMPANY~Algae cultivation and testing supplies ~~TXN00537564
03 - Other Expense	Medical & Laboratory Supp	2000001188	39.27		Payables A 1855059000009 1855094 Y	MARINE DEPOT-Algae cultivation and testing supplies TXN00534357 MARINE DEPOT-Algae cultivation and testing supplies TXN00534357
03 - Other Expense	Medical & Laboratory Supp	2000001188	49.15		Payables A 1855059000009 1855094 Y	TFS FISHERSCI ECOM HUS~Algae cultivation and testing supplies TXN00537465 TFS FISHERSCI ECOM HUS~Algae cultivation and testing supplies TXN00537465
03 - Other Expense	Medical & Laboratory Supp	2000001188	438.28		Pavables A 1903946000006 1903960 Y	HACH COMPANY~materials for algae cultivation and analysis~~TXN00543625 HACH COMPANY~materials for algae cultivation and analysis~~TXN00543625
03 - Other Expense	Medical & Laboratory Supp	2000001188	56.13		Payables A 1903946000006 1903960 Y	TFS FISHERSCI ECOM HUS algae cultivation and testing supplies and storage TXN00537870 TFS FISHERSCI ECOM HUS algae cultivation and testing supplies and storage
03 - Other Expense	Medical & Laboratory Supp	2000001188	501.23		Payables A 1903946000005 1903959 Y	TFS FISHERSCI ECOM HUS~algae cultivation and testing supplies and storage~~TXN00538362 TFS FISHERSCI ECOM HUS~algae cultivation and testing supplies and storage~~
03 - Other Expense	Medical & Laboratory Supp	2000001188	605.65	3/31/2020	Payables A 1903946000006 1903960 Y	TFS FISHERSCI ECOM HUS*materials for algae cultivation and analysis**TXN00544079 TFS FISHERSCI ECOM HUS*materials for algae cultivation and analysis**TXN00544075
03 - Other Expense	Medical & Laboratory Supp	2000001188	45.00			BOISE COLD STORAGECOMPANY~materials for algae cultivation and analysis~~TXN00540021 BOISE COLD STORAGECOMPANY~materials for algae cultivation and analysis~~
03 - Other Expense	Medical & Laboratory Supp	2000001188	1,081.15		Payables A 2006128000002 2006131 Y	TFS FISHERSCI ECOM HUS~algae cultivation and testing supplies~TXN00549163 TFS FISHERSCI ECOM HUS~algae cultivation and testing supplies~TXN00549163
03 - Other Expense	Medical & Laboratory Supp	2000001188	90.60	5/29/2020	Payables A 2006128000002 2006131 Y	TFS FISHERSCI ECOM HUS~algae cultivation supplies-TXN00549010 TFS FISHERSCI ECOM HUS~algae cultivation supplies-TXN00549010
03 - Other Expense	Storage Space Rental	2000001188	55.00	9/30/2019	Payables A 1609056000001 1609060 2 Y	BOISE COLD STORAGECOMPANY~cold storage for H2O in Feris research~~TXN00494028 BOISE COLD STORAGECOMPANY~cold storage for H2O in Feris research~~TXN00494
03 - Other Expense	Storage Space Rental	2000001188	45.00	11/29/2019	Payables A 1712893000005 1712901 Y	BOISE COLD STORAGECOMPANY~frozen water storage~~TXN00512002 BOISE COLD STORAGECOMPANY~frozen water storage~~TXN00512002
03 - Other Expense	Storage Space Rental	2000001188	45.00	11/29/2019	Payables A 1712893000005 1712901 Y	BOISE COLD STORAGECOMPANY~frozen water storage~~TXN00512021 BOISE COLD STORAGECOMPANY~frozen water storage~~TXN00512021
03 - Other Expense	Academic Fees Pd By Dept/	2000001188	4,823.00	3/1/2020	Payables A 1871351000001 1871356 Y	CORR015336 - 114063379 Ayala,Edgardo Spring 2020 Graduate Assistant CORR015336 - 114063379 Ayala,Edgardo Spring 2020 Graduate Assistant
03 - Other Expense	Academic Fees Pd By Dept/	2000001188	4,823.00	3/1/2020	Payables A 1871351000001 1871356 Y	CORR015337 - 113077552 Torres, Alejandro Spring 2020 Graduate Assistant CORR015337 - 113077552 Torres, Alejandro Spring 2020 Graduate Assistant
		Total Other Expense	\$ 21,864.75			
04 - Travel	Rental Vehicles-In State	2000001188	24.10		Payables A 1562916000004 1562926 Y	CHEVRON 0095274~Rental fuel for E.Ayala to Moscow,ID to pick up research samples~TA#49273~TXN00490372 CHEVRON 0095274~Rental fuel for E.Ayala to Moscow,ID tc
04 - Travel	Rental Vehicles-In State	2000001188			Payables A 1562916000005 1562929 Y	CHEVRON 0095274~Rental fuel for E.Ayala to Moscow,ID to pick up research samples~TA#49273~TXN00490452 CHEVRON 0095274~Rental fuel for E.Ayala to Moscow,ID tc
04 - Travel	Rental Vehicles-In State	2000001188	276.99		Payables A 1562916000005 1562929 Y	ENTERPRISE RENT-A-CAR~Rental truck to pick up water for Feris lab~49273/49275~TXN00490757 ENTERPRISE RENT-A-CAR~Rental truck to pick up water for Feris lab~4927
04 - Travel	Rental Vehicles-In State	2000001188			Payables A 1564130000001 1564144 Y	STINKER # 38"Rental fuel for E.Ayala to Moscow,ID to pick up research samples"TA#49273"TXN00490271 STINKER # 38"Rental fuel for E.Ayala to Moscow,ID to pick up res
04 - Travel	Rental Vehicles-In State	2000001188	32.30		Payables A 1564130000001 1564144 Y	CHEVRON 0095274~Rental fuel for E.Ayala to Moscow,ID to pick up research samples~TA#49273~TXN00489867 CHEVRON 0095274~Rental fuel for E.Ayala to Moscow,ID tc
04 - Travel	Commercial Airfare-Out Of	2000001188	442.10			DELTA AIR 0067379000717~airfare in SLC to meet with Idaho and Utah dairymen~~TXN00480866 DELTA AIR 0067379000717~airfare in SLC to meet with Idaho and Utah
04 - Travel	Subsistence & Lodging-In	2000001188	93.10		Payables A 1572382000001 1572384 Y	Per diem for two days in Moscow, ID retrieving water samples from Univ of ID Per diem for two days in Moscow, ID retrieving water samples from Univ of ID
04 - Travel	Subsistence & Lodging-In	2000001188	93.10		Payables A 1583473000001 1583478 Y	Per diem reimbursement for Alex Torres in Moscow, ID in Aug to retrieve water samples Per diem reimbursement for Alex Torres in Moscow, ID in Aug to retrieve water san
04 - Travel	Subsistence & Lodging-Out	2000001188	149.18		Payables A 1505471000005 1505483 Y	EXPEDIA 7451936748711~lodging in SLC to meet with Idaho and Utah dairymen~44643~TXN00480616 EXPEDIA 7451936748711~lodging in SLC to meet with Idaho and Uta
04 - Travel	Subsistence & Lodging-Out	2000001188	97.19	8/30/2019	Payables A 1564130000001 1564144 Y	MOTEL 6 MOSCOW ID~Lodging for Feris lab to pick up water for project~49273/49275~TXN00490119 MOTEL 6 MOSCOW ID~Lodging for Feris lab to pick up water for proje
		Total Travel:	\$ 1,276.51			