

NOVEMBER 24, 2020

SLATER/DEVIL FIRES 2020

INCIDENT REPORT





INCIDENT WASTE MANAGEMENT

OVERVIEW OF INCIDENT

The Slater Fire started on September 8, 2020 near Slater Butte Lookout on the Klamath National Forest. The Devil Fire was detected on September 9, 2020 north of the Upper Devil's Peak on the Klamath National Forest. This fire grew quickly in a short period of time, crossing the California/Oregon border. The main base camp in Happy Camp, California was initially managed by California Inter-Agency IMT 10. Once the fire crossed into Oregon, a second camp at Lake Selmac Park was established. This camp was managed by Type 1 IMT Northern Rockies 2 and transitioned to PNW IMT 7. Due to COVID19 mitigation strategies, ICP was stationed in downtown Grants Pass, Oregon for the duration of the incident.

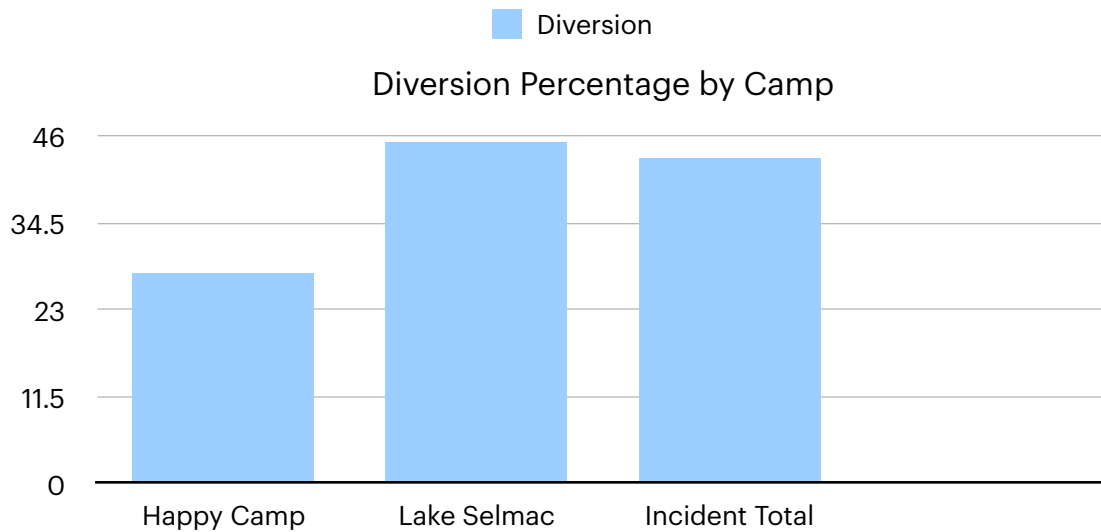
Recycling services were ordered on the Slater Devil Fires on September 12, 2020. The Human Eco team arrived at Happy Camp on the morning of September 13, 2020 and began services. Quickly, the Human Eco team was split and resources were sent north to Lake Selmac. Recycling services remained at Happy Camp until October 9, 2020, when the Human Eco team consolidated to Lake Selmac for the duration of the incident until the demob date of October 23, 2020. The average personnel count for the incident fluctuated between 600- 1500 total for all spike camps, Happy Camp, Lake Selmac and Grants Pass ICP.



Human Eco Waste Station, Owner Hannah Johnson

DIVERSION SUMMARY

Diversion rates are based off of both estimated and actual values. A GIS tool developed by the Greening Fire Team called Survey123 showcases diversion in terms of volume of recycled material and landfilled waste. In addition to estimated volumes found in Survey123, Human Eco staff kept a daily collection log for actual weights of recycling which can be found in Appendix 2. Any bag of recyclable material generated from the waste stations or from the waste received from the fire line was reviewed for contamination and individually weighed. Cardboard weights were captured by a scale at the recycling facilities, which were recorded by our team upon arrival and departure. . The trash weight in the daily log is an estimated value based off of the EPA Waste Weight



Guidelines (Appendix 2) which are based on size of container and fullness level. We collected a variety of materials at each of the base camps based on what we were able to recycle locally. Cardboard weights are listed based on when we completed a full haul to a local recycle facility. Waste stations for recycling of mixed recyclables as well as bottles and cans were placed throughout each of the camps to encourage proper sorting and material separation. Recycle centers at each camp showcased materials being assessed and recycled by Human Eco staff, and were a place where incident staff and firefighter personnel could come to dispose of waste and recycling, learn about the impact of recycling on an incident, and pick up blue bags for recycle collection.

Due to the complexity of multiple locations (see Appendix 1 for complete list of locations), the Survey123 reporting tool felt slightly limiting for the amount of information we could record. For example, we had several cardboard and recycling runs in the matter of a week, but the Survey123 tool could only allow for a certain number of inputs per week. Additionally, given we were managing two base incident camps, we submitted two Survey123 reports each week. The spreadsheet in Appendix 2 shows Happy Camp diversion tracked separate from Lake Selmac as well as all donations and specialty handling tracked separately. Each of the recycling items are totaled in a cumulative daily output and measured against the estimated landfill waste to calculate diversion rates.

Recycling and donations went to a variety of locations. See Appendix 1 for a list of recycling locations by commodity type.

Overall, Human Eco was able to achieve an average diversion rate of 43% for both Happy Camp and Lake Selmac for the duration of the incident, diverting over 37,000lbs of material (see summary below).

Material	Total Pounds Recycled
Plastic (PET & HDPE)	3,700
Aluminum and Tin	600
Office Paper and Lunch Bags	3,000
Cardboard	20,500
Food Donation	3,670
Pallets (Wood & Plastic)	4,180
Batteries *recovered from trash	1,500

Incident total recycled & donated materials by weight

EDUCATION / OUTREACH / OBSERVATIONS

The Human Eco approach is always about education first. We believe that change can only happen when people feel informed and empowered to participate. Therefore, we make it a top priority to be seen and approachable while on an incident. A few of the strategies we deployed at the Slater Devil Fires were communications, waste station placement, and waste mapping. First, our goal was to announce our arrival through the IAP and morning briefings. As soon as we arrived on the incident, one of the first contacts we made was with facilities and communications. We wanted to let people at camp know that recycling was available and that there were tangible ways to participate. The second strategy for increasing engagement was in the strategic placement of our recycle center, the central location of our sorting operation. We picked somewhere that was in a highly

trafficked throughway. We needed high visibility to encourage personnel to stop by, ask questions, and express curiosity in the operation and its goals. The recycle center had material specific bins, labels and a sorting line where Human Eco staff were sorting trash into various recycle streams, as well as a collection site for specialty recycling such as batteries and food donation.

Throughout the incident base camp and other locations, placement of centralized waste stations indicated a uniformed approach to recycling. Each of the stations were labeled with both imagery and words.



Waste station toppers - Human Eco

Our strategy for outreach involved mapping all points of waste generation on the incident, from which we developed a plan to appropriately engage and inspire compliance within those areas. For example, we identified the areas of waste generation from catering, supply, ICP trailers/offices, camping zone, and security. From there we assessed the materials coming out of those areas. Cardboard and tin for example were materials from catering that we focused on and conducted outreach and education around. From the ICP offices and trailers we targeted the consumables like water bottles and paper as well as provided separate food donation boxes for non-perishable foods from lunches.

From previous experience on incidents, we found that a majority of outreach has to do with educating people on the reason “why” we recycle and what we are doing with the materials collected. We take an approach of full transparency when talking to the folks at camp. People want to feel like they’re part of something and to know what their actions contribute to directly. For example, we donated non-perishable foods to the Karuk Tribe in Happy Camp, CA where it went directly back into the community impacted by the fire. In Lake Selmac, we donated the bottle and can proceeds to a local ministries youth group. We shared this information through a sign that we hung on the recycle center, as well as through the IAP. In addition to highlighting the process of recycling, we also felt it important to clearly share updated data on the impact of the program. In an IAP update, we converted the weight of diverted cardboard and paper to the savings of trees, energy and water (see Appendix 3). We received a lot of positive feedback from that update. People who were impressed with the metrics and impact and said that converting it into other forms of tangible information was helpful to their understanding of the importance of the work. The power in using data to tell a story and speak to various groups of people is impressive . We understand the importance of providing a variety of access and information as it pertains to the success and progress of the program.

Lastly, as a part of a well managed recycling program, we believe that convenience is key. Our goal is to make access to recycling easy to understand and consistent. This year, in compliance with the BPA, we provided separate blue bags with a recycle symbol for recycling bottles, cans, glass and paper bags. We found that distributing these bags around camp to the various pick up points (the refer, supply, and even hanging them on the waste stations and at the recycle center) drove the use rate up substantially. Additionally, we received feedback that highlighting common items found at an incident base on our waste station signage showed that we had experience working with fire fighters and an understanding of the behaviors at a camp.

EXAMPLES OF EDUCATION AROUND CAMP



COST SAVINGS AND BENEFITS

Waste removal on large incidents can be extremely costly. Especially when there is an over abundance of large open top dumpsters ordered through the local hauler and hauled on a set schedule, often many times per week. Empty or near empty containers may be hauled and charged as full, and without someone overseeing container fullness on a daily basis, this can add up.

Our job on incidents is to oversee the levels of waste generation in the roll-off containers and to notify camp facilities when the containers need to be scheduled for hauling. Our goal in roll-off management is to reduce the amount of unnecessary pick ups and to maximize the fullness levels of the containers. This not only has cost savings implications but also carbon reduction impacts from less freight travel of waste removal. Through daily dumpster monitoring, we are able to control the amount of contamination that occurs from improper dumping. This year that looked like removing any cardboard or other visible recycle contamination from the top layer of the dumpster. Below is a comparison of a dumpster without our oversight and service and then after. On this particular dumpster, the staff managing it were not aware that it had not been serviced



Before



After

for many days, and it was through our attention to this matter that we were able to work out a pick up schedule that maximized savings and carbon reduction.

In an analysis completed with Northern Rockies IMT we calculated that through our services, we reduced the frequency of hauling in half. Instead of multiple containers going every other day, we tipped dumpsters 1-2 times per week which resulted in an average weekly savings of \$3,300. In addition, we received recognition from the facilities unit leader that having the recycling and waste management services “created efficiency and reduced the demand for camp crew personnel, resulting in potential labor savings on-site.” In addition to the reduction in camp crew personnel needed to manage waste on an incident, we also found labor efficiencies through managing the cardboard for catering. Prior to our services, catering staff were responsible for breaking down and transporting cardboard to the nearest dumpster for disposal. Some caterers would have to load cardboard into a truck and drive it to the nearest container to properly dispose of it creating an extra time demand on their already busy staff. We alleviated the task of cardboard management by asking that all cardboard be flattened and placed in a convenient location within their operations. We hauled the cardboard 1-2 times per day, or whenever the catering team requested a service. We felt this created a reciprocal relationship with catering and greatly enhanced our diversion rates. On average, we collected 3-5 yards of cardboard per day from catering.

The potential for comprehensive waste and recycling services to decrease costs on an incident are tremendous. In addition to better materials management, targeting purchasing habits and focusing on waste reduction could create even more labor efficiencies and reduce the operational costs of catering and supply.

LESSONS LEARNED AND RECOMMENDATIONS

This year’s fire season was a lesson and test for us all. The challenge of COVID mitigation and safety proved to have unforeseen difficulties in efficient and safe workplace and living environments. Unfortunately, this meant that there were many people spread over a large area with multiple camps, spike camps and ICP locations. Our team was split between state lines and at one point providing services for five different sites, three of which were main ICP and base camp operations. This meant that we had to be flexible and creative and adjust to the challenges of capturing waste from a variety of locations.

Waste generation during COVID increased greatly due to the single use packaging required for food service. Where there used to be a single plate for a meal, there is now three clamshell containers used. This not only felt entirely unnecessary, but also proved to cause confusion on what was recyclable. Many people we spoke with thought that because the clamshell containers for food were made out of paper, that they were recyclable. Therefore we found a great deal of clamshell and food waste contaminating the recycle streams.

Another element of food service in the time of COVID that caused a lot of contamination was the food clamshells for groups that were transported in cardboard boxes. For meals of 4 or more, a large cardboard carrying box was handed out. This encouraged the box to be used as a waste bin post-meal that collected all dirty clamshell containers and was thrown into the dumpster. About 20% of our time was spent recovering these boxes from the dumpsters so that we could properly recycle them. We found it near impossible to communicate to people that they should empty food boxes into the dumpster and then flatten the cardboard box and set it outside of the dumpster so as to reduce contamination.

We were given the opportunity this year to pilot composting with a national catering company, Big Sky Catering but were limited with the surrounding composting infrastructure. There were places processing organic waste, but they did not want the food scraps. We were devastated and went in search of a local farm to take the feed for animals. Again, we were met with limitations, as the most common farming operations surrounding us were the marijuana and hemp industry of which did not want food scraps.

Another lesson learned with this being our first fire in Oregon, was the challenges with the bottle return program. The local recycle facility where we hauled would not accept PET water bottles because of the bottle return program so we were left to figure out how to properly dispose of these. Luckily, we found a group that would take the bottles as is and deposit them for redemption. This saved us from having to create a corporate or non-profit account with the Bottle Drop system and spend hours at the facility loading bottles into a machine which would have pulled us off incident for long periods of time. Moving forward, we can work with the local Host Unit to create a redemption account with Bottle Drop so all funds can go directly back to the forest service as well as continue to find viable outlets for donation that can reflect positively on the incident's community impact.

RECOMMENDATIONS

- Language from the contracting officer should be given to the logistics lead of the incident so that once recycling is ordered and secured, a constructed message is sent out on behalf of logistics to the incident describing the recycling service and its goals.
- No single use clamshells for cold foods coming from the catering line. This includes items like yogurt, waffle packs, or other goods that are already pre-packaged. They should be handed out as is, and upon request.
- Separate silverware from condiments so that you don't have to get a pack of everything just to get a fork.
- Make batteries part of the required recyclables collected but allow for an itemized charge based on weight and disposal fees.
- Dumpster diving is a necessary part of the job. Without our ability and willingness to collect cardboard and other recyclables from the dumpsters, we would have had to increase pick up frequencies for containers and diversion rates would be lower.
 - ***However, dumpster diving should be taken with extreme caution and with all of the necessary PPE and training in place.***
- Having time at the morning briefings to get on stage and speak to the group is very valuable. If you are not able to get on stage, it is recommended to have the logistics chief speak on your behalf to add credibility.
- Most of the sorting done by the fire fighters happens at night in the dark or in the morning in the dark. We want to create something that illuminates the waste station for easy access.
- Trash should not be a convenience. We need to make the dumpster access more difficult and limited. Only having dumpsters in 2 key locations on camp rather than in the middle of the camping field would encourage participation.

APPENDIX

APPENDIX 1 // SERVICE LOCATIONS & RECYCLING

Name	Commodity	Location	Receipts (Y/N)
Republic Services Transfer Station	Paper bags, OCC, Aluminum	Grants Pass, OR	N - drop off only
Southern Oregon Sanitation	OCC, Aluminum, Plastic Bottles	Grants Pass, OR	Y - weight ticket
Karuk Tribal Center	Food Donation	Happy Camp, CA	N - drop off only
Dans Deli and Arcade	Food Donation	Happy Camp, CA	N - drop off only
Yreka Transfer Recycling	Office paper, aluminum, bottles, cardboard	Yreka, CA	Y - weight ticket
Joe's Place Ministries	Food donation and plastic water bottles/ aluminum	Grants Pass, OR	Y - donation slip
Rogue River Disposal	Cardboard, white paper, tin and plastic	Medford, OR	Y - weight recording
Recology Ashland	White paper	Ashland, OR	N - drop off only
Coca Cola & Pepsi	Plastic and wood pallets	N/a	Take back for reuse
Gospel Mission Rescue	Hot food donation	Grants Pass, OR	N - drop off only
Illinois Valley Family Coalition	Non-perishable and fruit	Cave Junction, OR	N - drop off only
Fire Hose Supply (https://www.firehosesupply.com/collections/scrap-fire-hose)	Spent Hose	Richmond, CA	N- picture

Location	Facility Name	Dumpster Count Size	Personnel Ct.
Happy Camp, California	Base camp	(3) 30yd containers	650
Lake Selmac, Oregon	Base camp	(3) 30yd containers	850

Location	Facility Name	Dumpster Count Size	Personnel Ct.
Grants Pass, Oregon	ICP	(1) 30yd container	45-60
Cave Junction, Oregon	Spike camp, briefing area	(1) 8yd container (1) 10yd container	Unknown

APPENDIX 2 // DAILY DIVERSION LOG

Happy Camp Recycling																													
Day	Date	Personnel #	Location	Plastic #1 Bottles (lb)	Plastic #1 Bottles (cu)	Plastic #2 (lb)	Plastic #2 (cu)	CCC (lb)	CCC (cu)	Aluminum/ Tin (lb)	Aluminum/ Tin (cu)	Glass (lb)	Glass (cu)	Wire Paper (lb)	Wire Paper (cu)	Paper Office (lb)	Paper Office (cu)	Wood Recycling (lb)	Wood Recycling (cu)	DAILY TOTAL RYC (YD)	DAILY TOTAL RYC (cu yds)	Transfer	Transfer (cu)	Depletion (%)	Counting Trash (open volume)	Counting Trash (open volume)			
Week 1																													
Monday	9/13	380	HC	2,899,075	59.5	0	0	0	0	306	0.36201789	32.2	0	0.0278714	2.3	0.0277778	0	0	0	0	3,770,273.1	194.5	0	0	0	0	0	1900	
TOTAL				2,899,075	59.5	0	0	0	0	306	0.36201789	32.2	0	0.0278714	2.3	0.0277778	0	0	0	0	3,770,273.1	194.5	0	0	0	0	0	1900	
Week 2																													
Monday	9/14	380	HC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Week 3																													
Monday	9/15	380	HC	1,375	28.8	0	0	0	0	838	0.0030381	27.7	0	0.0818387	182	1.8488848	26	0	0	0	1,847,528	94.7	0	0	0	0	0	2000	
Tuesday	9/16	380	HC	1,878,225	39.3	0	0	0	0	318	0.04702807	55	0	0.0588054	85.7	1.3222222	23.8	0	0	0	6,058,038	44.4	0	0	0	0	0	2000	
Wednesday	9/17	380	HC	2,338,075	47.8	0	0	0	0	578	0.0018485	19	0	0	0	0	0	0	0	0	6,849,634	25.9	0	0	0	0	0	2000	
Thursday	9/18 (Sat) HC	380	HC	2,533,025	51.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,028,804	26.8	0	0	0	0	0	2000	
Friday	9/19	380	HC	1,975	0.43	0	0	0	0	583	0.0002174	16.4	0	0	0.0047615	86	1.0366667	23.7	0	0	2,770,048	28.9	0	0	0	0	0	2000	
Saturday	9/20	380	HC	1,209,075	26.1	0	0	0	0	0	0.020913	0	0	0.0648881	173	1.0000000	23	0	0	0	2,629,883	31.8	0	0	0	0	0	2000	
TOTAL				10,030,275	206.1	0	0	0	0	1,739	0.0042813	115.3	0	0.1478214	266.7	4.1781111	73.6	0	0	0	15,276,888	127.9	0	0	0	0	0	8000	
Week 4																													
Monday	9/21	480	HC	1,400,075	29.5	0	0	0	0	285	0.0028087	8.4	0	0.0278714	1.5	1.8488848	45.6	0	0	0	6,694,474	37.5	0	0	0	0	0	2000	
Tuesday	9/22 (Sat) HC	480	HC + 1000 yds NW	0	0	0	0	0	0	2,377,847	252	0	0	0	0	0	0	0	0	0	2,377,847	25.8	0	0	0	0	0	2000	
Wednesday	9/23 (Sat) HC	480	HC	0	0	0	0	0	0	1,723,845	400	0	0	0	0.2142857	90	0	0	0	0	1,907,690	26	0	0	0	0	0	2000	
Thursday	9/24	480	HC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2000	
Friday	9/25 (Sat) HC	480	HC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2000	
Saturday	9/26 (Sat) HC	480	HC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2000	
Sunday	9/27	480	HC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2000	
TOTAL				1,400,075	29.5	0	0	0	0	2,858	0.0028087	8.4	0	0.0278714	1.5	1.8488848	45.6	0	0	0	0	6,694,474	37.5	0	0	0	0	0	8000
Week 5																													
Monday	9/28	200	HC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Tuesday	9/29	200	HC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Wednesday	9/30	200	HC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Thursday	10/1	200	HC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Friday	10/2 (Sat) HC	200	HC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Saturday	10/3	200	HC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sunday	10/4	200	HC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Total Happy Camp Diversion			
Waste Type	Cubic Yards (cu)	Amount (lb)	Amount (cu)
Recycling	61,600,318	881.5	881.5
Res. Slimes	4,470,884.7	881.5	881.5
Trash	97.5	1,000	1,000
Net Total	66,169,090.2	1,763	1,763

Lake Selmac Specialty Recycling																	DAILY TOTAL RYC (LBS)			
Day	Date	Location	Batteries (yds)	Batteries (lbs)	Cooking Oil (gallons)	Cooking Oil (yds)	Cooking Oil (lbs)	Food Donation (yds)	Food Donation (lbs)	Compost (yds)	Compost (lbs)	Pallets Count	Pallets (lbs)	Pallets (yds)	Tires Count	Tires (lbs)	E-Waste (yds)	E-Waste (lbs)	DAILY TOTAL RYC (YD)	DAILY TOTAL RYC (LBS)
Week 1																				
Monday	9/21 LS	*Joe's Mini	0	0	0	0	0	0.1502353	58.5	0	0	0	0	0	0	0	0	0	0.1502353	58.5
Tuesday	9/22 LS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wednesday	9/23 LS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thursday	9/24 LS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Friday	9/25 LS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saturday	9/26 LS	*Joe's Ministries	0	0	0	0	0	0.1565666	62	0	0	0	0	0	0	0	0	0	0.1565666	62
Sunday	9/27		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL																				
Week 2																				
Monday	9/28 LS	*Cave Junction	0	0	0	0	0	0.23757576	102	0	0	0	0	0	0	0	0	0	0.23757576	102
Tuesday	9/29 LS	*Joe's Ministries	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wednesday	9/30 LS	*Cave Junction Health Center	0	0	0	0	0	0.3030303	120	0	0	28	1360	3.8	0	0	0	0	6.3030303	1200
Thursday	10/1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Friday	10/2		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saturday	10/3 LS	*Cave Junction Health Center	0	0	0	0	0	0.3581818	145.8	0	0	0	0	0	0	0	0	0	0.3581818	145.8
Sunday	10/4 LS	ICP Center - Gospel	0	0	0	0	0	1.2888888	490.4	0	0	30	3020	6	0	0	0	0	7.2888888	1510.4
TOTAL																				
Week 3																				
Monday	10/5 LS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tuesday	10/6 LS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wednesday	10/7 LS		0	0	0	0	0	0	0	0	0	4	160	0.8	0	0	0	0	0.8	160
Thursday	10/8 LS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Friday	10/9 LS	*Cave Junction Health Center	0	0	0	0	0	0.31060606	123	0	0	0	0	0	0	0	0	0	0.31060606	123
Saturday	10/10 LS	*Joe's Ministries	0	0	0	0	0	0.67146465	265.9	0	0	0	0	0	0	0	0	0	0.67146465	265.9
Sunday	10/11 LS	*Cave Junction Health Center	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL																				
Week 4																				
Monday	10/12 LS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tuesday	10/13 LS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wednesday	10/14 LS		0	0	0	0	0	0.11111111	44	0	0	0	0	0	0	0	0	0	0.11111111	44
Thursday	10/15 LS	*Cave Junction Health Center	0	0	0	0	0	0.6419319	254.2	0	0	0	0	0	0	0	0	0	0.6419319	254.2
Friday	10/16		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saturday	10/17		0	0	0	0	0	0.23075758	99.8	0	0	0	0	0	0	0	0	0	0.23075758	99.8
Sunday	10/18		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL																				
Week 5																				
Monday	10/19 LS		0	0	0	0	0	0	0	0	0	46	1840	9.2	0	0	0	0	9.2	1840
Tuesday	10/20 LS		0	0	0	0	0	0.35075758	138.9	0	0	0	0	0	0	0	0	0	0.35075758	138.9
Wednesday	10/21 LS	0.21779661	1500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.21779661	1500
Thursday	10/22 LS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Friday	10/23 LS		0	0	0	0	0	0.20883838	82.7	0	0	0	0	0	0	0	0	0	0.20883838	82.7
Saturday			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sunday			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL																				

Daily diversion log DropBox link: <https://www.dropbox.com/sh/aml8e5aq3sbox63/AABJ56ct7GzcKVLWL5f5kABPa?dl=0>

EPA Waste Weight Guidelines:

https://www.epa.gov/sites/production/files/2016-04/documents/volume_to_weight_conversion_factors_memorandum_04192016_508fnl.pdf

APPENDIX 3 // SUPPORTING DOCUMENTATION

IAP INSERTS

INCIDENT RECYCLING IMPACT
(9/13/20 - 10/17/20)

Material	LBS recycled	Change from last week
Plastic Bottles	3,394	+ 679 lbs
Aluminum Cans	534	+ 91 lbs
Paper	2,612	+ 429 lbs
Cardboard	17,789	+ 3,444 lbs
Food Donation	3,433	+ 288 lbs

WHERE DOES IT GO?

Paper and cardboard **Cans and bottles** **Donations**

Paper and cardboard are hauled to Southern Oregon Sanitation, Republic Services, Recology and Frogue Recycling and Disposal. These companies take the cardboard and paper and send it to International Paper in Eugene, Oregon for processing.

Cans and bottles are donated to Joe's Place Ministries and the Southern Oregon Humane Society, where they are redeemed and processed through the Oregon Beverage Recycling Cooperative.

Donations of non-perishable food and salvaged gear make their way through the communities of Cave Junction and Grants Pass. We work with Joe's Place Ministries, Gospel Mission Rescue, and the River Valley Family Resource Center.

IAP INSERT

INCIDENT RECYCLING

Slater Fire Impact (9/13/2020 - 10/5/2020)

MATERIAL	LBS RECYCLED
PLASTIC BOTTLES	2,110 lbs
ALUMINUM CANS	395 lbs
PAPER	1,482 lbs
CARDBOARD	12,065 lbs
FOOD DONATION	2,745 lbs non-perishable

- Non-perishable food donation goes to the Gospel Rescue Mission and Joe's Place Ministries in Grants Pass, OR, as well as Illinois Valley Family Resource Center in Cave Junction, OR.
- Proceeds from Lake Selmac bottle and can collection go to Joe's Place Ministries in Grants Pass, OR, which support low income youth and their families.

HOW TO RECYCLE WITH US

- Come to the recycle center and pick up a blue recycle bag
- Drop off at the recycle center blue bags with bottles, cans, and paper bags
- Empty food boxes into the dumpster from large cardboard box, and place cardboard next to the dumpster for recycling
- Use the recycling stations around camp to separate your trash

Come ask us questions! We're happy to chat!

IAP #1

INCIDENT RECYCLING

Slater Fire Impact (9/13/2020 - 9/25/2020)

MATERIAL	LBS RECYCLED
PLASTIC BOTTLES	854 lbs
ALUMINUM CANS	295 lbs
PAPER	632 lbs
CARDBOARD	6,810 lbs
FOOD DONATION	1,716 lbs non-perishable

- Non-perishable food donation goes to the Kanki Tribal Center and community members displaced by the fire in Happy Camp, CA, as well as Joe's Place Ministries in Grants Pass, OR.
- Proceeds from Lake Selmac bottle and can collection go to Joe's Place Ministries in Grants Pass, OR, which support low income youth and their families.
- Proceeds from Happy Camp bottle and can collection go back to the Host Unit as recycling revenue.

HOW TO RECYCLE WITH US

- Come to the recycle center and pick up a blue recycle bag
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- Empty food boxes into the dumpster from large cardboard box, and place cardboard next to the dumpster for recycling
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INCIDENT RECYCLING IS HERE

WHAT GOES IN THE BINS

BOTTLES & CANS **MIXED RECYCLE** **TRASH TO LANDFILL**

NO LIQUID

↓

- EMPTY PLASTIC WATER BOTTLES
- EMPTY PAPER LUNCH BAGS
- ALUMINUM CANS
- GLASS BOTTLES
- PLASTIC BOTTLES
- WHITE PAPER (IAP)
- FOOD
- CATERING BOXES
- UTENSILS
- PLASTIC BAGS
- PAPER TOWELS

HOW TO RECYCLE WITH US

- Pick up a blue recycle bag at the trailer or use a clear bag
- Fill it with plastic water bottles, cans and paper lunch bags
- Drop off your recycle bags and trash bags near the recycle center (lower dumpster by camping area)

THANK YOU FOR EVERYTHING YOU DO!

INCIDENT RECYCLING IMPACT

Slater Fire (9/13/2020 - 10/10/2020)

Material	LBS recycled	Tons recycled
Plastic Bottles	2,715	1.4
Aluminum Cans	443	0.2
Paper	2,183	1.1
Cardboard	14,346	7.2
Food Donation	3,135	1.6

Savings from recycling bottles, cans, paper and cardboard on Slater/Deer Pass:

- 18,202 kWh of energy
- 141 trees
- 2,041 gallons of oil
- 7,700 gallons of water (just from paper recycling)

Facts:

- Recycling a single aluminum can saves enough energy to power a TV for three hours.
- Producing recycled white paper creates 74% less air pollution, 56% less water pollution, and 73% less processed energy than producing paper from virgin fibers.
- Recycling one ton of plastic bottles saves the equivalent energy usage of a two person household for one year.
- Approximately 88% of the energy is saved by producing plastic from plastic as opposed to manufacturing plastic from the raw materials of oil and gas.

Source: <https://www.eia.gov/energyfactsheets>

INCIDENT RECYCLING

Slater Fire Impact (9/13/2020 - 10/5/2020)

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1



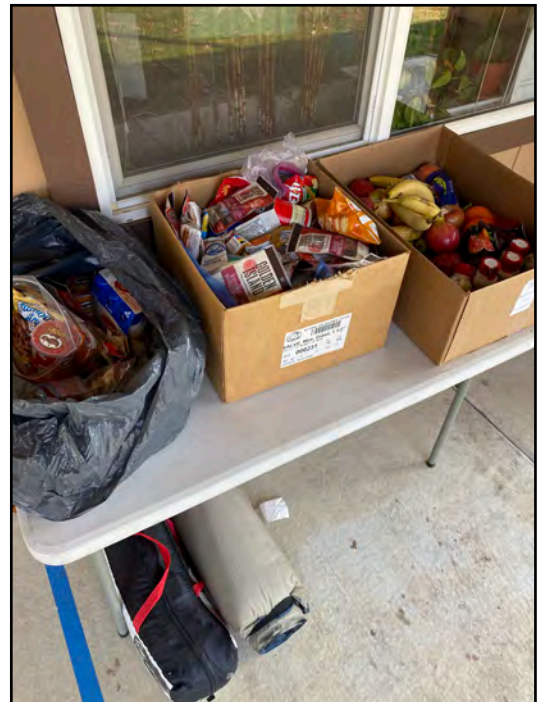
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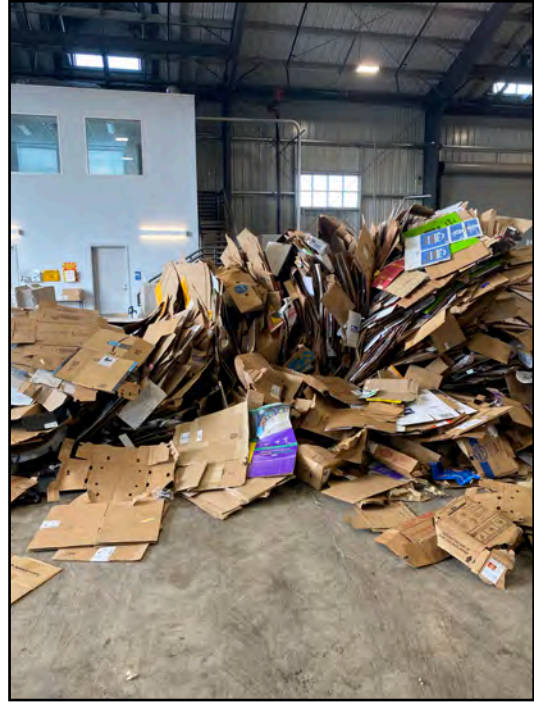
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5



6



1. Joe's Place Ministries Youth Group
2. Pallet reuse program through Pepsi and Coca Cola
3. Battery recycling at sorting station
4. Food donation to the Illinois Family Resource Center
5. Spent fire hose collection for donation
6. Cardboard hauling/recycling

APPENDIX 4 // PERFORMANCE EVALUATIONS



Certificate of Appreciation PNW Team 7

EXHIBIT E -- Incident Blanket Purchase Agreement (I-BPA) Performance Evaluation

Highlighted blocks are required to be completed.

Agreement Number: C0410 - 129A6720K5399 Recycling - 129J6119A001	Rating Period: 9-11-20 thru 10-2-20
Contracting Office (Including Address): Lydia Ward USDA FS Fire and Aviation Management 3237 Basekeeper Way Suite 101 McClellan CA 95652	Fire Name: Slater Resource Order Number: Recycle 5-210 Covid 5-20100
Contractor Name: Hanna Johnson	Requirement Description (Equipment Type): Recycling Service Trash Management Cleaning Supplies

Ratings
Summarize contractor performance and check the number which corresponds to the rating for each rating category (See attached Rating Guidelines).

Quality of Product of Service (How did the contractor perform—document any noncompliance or performance issues)
N/A 0=Unsatisfactory 1=Marginal 2=Satisfactory 3=Very Good 4=Exceptional

Government Comments for Quality of Product of Service (2000 characters maximum):
Absolutely No performance issues; The Quality was top notch and reduced all aspects of garbage management. Sorted and separated recycling and removed recycling from camp. Recycled a total of 1,800 lbs plastic; 8,500 lbs cardboard; 2,000 lbs of non-potable food containers; 12,000 lbs paper.

Timeliness of Performance (Schedule) (Did the contractor arrive when expected, demo, and perform the work in a timely manner)
N/A 0=Unsatisfactory 1=Marginal 2=Satisfactory 3=Very Good 4=Exceptional

Government Comments for Timeliness of Performance (2000 characters maximum):
They lived and stayed in Camp at all times. Worked from Daylight to dark cleaning all common touch surfaces & managing garbage/recycling.

Business Relations (Did the contractor perform in a business-like manner, complete administrative requirements in a timely manner)
N/A 0=Unsatisfactory 1=Marginal 2=Satisfactory 3=Very Good 4=Exceptional

Government Comments for Business Relations (2000 characters maximum):
Very timely and Professional. Very passionate about making a difference in camp. Allowed the incident to delete non-potable items to the community.

Would you recommend ordering this contractor again? Yes No (Check one)

Government Comments on Customer satisfaction (2000 characters maximum): (If no above, explain below)
Having this service created efficiency and reduced the demand for Camp Crew personnel. We were able to manage camp with 1 camp crew/supply crew. Camp peaked out at 800 personnel. Camp Crews just were not available. We were able to tip dumpsters 1-2 times a week, Versus every other day, with a cost savings of roughly \$3,300 a week. Exceptional Service to have in camp & very professional group. If we add the Briefing...

Performance review by Northern Rockies IMT