| TABLE J-1: Sa | ample Locations | and Descriptio | ns in the NOA | A-Ordnance Reef Study | | |
|------------------|-----------------|----------------|---------------|-----------------------|--------------------------|--|
| CitaNama | SamplaTura | Successful | CompleDate | Let | Lon Donth | Nata |
| SILEINAME | SampleType | Successiui | SampleDate | Lai | 158 10247600000 55 ft | Notes |
| 511N33 Site77 | Water | ł V | 6/3/2006 | 21.42329400000 | -158.19247600000 55 It | sample bottles 7, 2, 3, 33, deep sample only, 131 me 77.data |
| Sile// | Water | ł V | 6/3/2006 | 21.44272200000 | -158.19997200000 52.8 It | st the Weignee Sewage Outfall: comple bottles 45, 46, 49; VSI file we det |
| 000 | vvaler | ř | 6/3/2006 | 21.42395000000 | -158.19811700000 90 10 | at the watafiae Sewaye Outlan, sample bottles 45, 46, 46, 151 me would |
| S1 | Sediment | Y | 6/4/2006 | 21.42265000000 | -158.19553000000 73 ft | offshore (deep) to shallow transit |
| S2 | Sediment | Y | 6/4/2006 | 21.42261700000 | -158.19383300000 72 ft | coarse with volcanics |
| S3 | Sediment | Y | 6/4/2006 | 21.4230500000 | -158.1935000000 68 ft | coarse with volcanics |
| S4 | Sediment | Y | 6/4/2006 | 21.42315000000 | -158.19183300000 55 ft | no comments/notes |
| S5 | Sediment | Y | 6/4/2006 | 21.42388330000 | -158.19118300000 43 ft | no comments/notes |
| S6 | Sediment | Y | 6/4/2006 | 21.4244000000 | -158.19081700000 36 ft | finer grain sand, less volcanics |
| S7 | Sediment | Y | 6/4/2006 | 21.42505000000 | -158.19078300000 33 ft | finer grained sand - pockets of anoxia (black) |
| S8 | Sediment | N | 6/4/2006 | 21.42575000000 | -158.18976700000 30 ft | hard bottom - no sample |
| S9 | Sediment | N | 6/4/2006 | 21.42623300000 | -158.18893300000 31 ft | hard bottom - no sample |
| S10 | Sediment | Y | 6/4/2006 | 21.42491600000 | -158.1883000000 20 ft | more coarse sand/light colored |
| WO-S1(6/4) | Sediment | Ν | 6/4/2006 | 21.42348300000 | -158.1955000000 96 ft | upstream of sewage outfall; ponar failed to release; no sample |
| S-107A | Sediment | Y | 6/4/2006 | 21 43039900000 | -158 18842100000 | hard bottom mostly will try to find pocket of sediment; diver assisted; at anchor; fine to coarse with some coral rubble pieces; removed coarsest pebbles; took photo of baggie and separated pebles |
| | Countent | | 0/4/2000 | 21.400000000 | 100.10042100000 | |
| | | | | | | hard bottom mostly will try to find pocket of sediment; diver assisted; 10m NW of S- |
| S-107B | Sediment | v | 6/4/2006 | 21 43039900000 | -158 18842100000 | did not sort: avoided coral rock gradments in sub sampling: also took photo |
| WO-1P | Sediment | V | 6/5/2006 | 21.43333000000 | -158 19738300000 100 ft | retry at Wajanae Outfall: grab came up with coral rubble fragments |
| WO-IF | Sediment | 1 | 0/3/2000 | 21.42555000000 | -138.19738300000 100 11 | |
| WO-S1(6/5) | Sediment | Y | 6/5/2006 | 21.42333000000 | -158.19738300000 100 ft | start of diver assisted samples S to N transect across outfall; 100m total distance; medium to fine grain sand, black particles, a few pebbles and fragments |
| | | | | | | much muddier sample; fine grained silt mixed with rubble coral and sea urchin; |
| WO-S2A | Sediment | Y | 6/5/2006 | 21.42342500000 | -158.19731300000 100 ft | decanted liquid |
| WO 005 | | | 0/5/0000 | | | solids remaining from liquid decanted in sample WO-S2A; lots of fines were not collected when divers were at the bottom; collected material was very |
| WO-S2B | Sediment | Y | 6/5/2006 | 21.42342500000 | -158.19731300000 100 ft | neterogeneous; color much greyer |
| WO-S3 | Sediment | Y | 6/5/2006 | 21.42351900000 | -158.19722900000 100 ft | mixed coarse to fine sand with abundant black clasts |
| WO-S4 | Sediment | Y | 6/5/2006 | 21.42360400000 | -158.19715900000 100 ft | from outfall pipe; not enough samples for explosives analysis! |
| | Cadimant | V | 0/5/0000 | 04 4000000000 | 459 407000000 400 # | coarse sand with numerous black clasts and several large fragments with finer |
| WO-S5 | Sediment | ř | 6/5/2006 | 21.42369800000 | -158.19708200000 100 ft | grained carbonate sand |
| WO-56 | Sealment | Ŷ | 6/5/2006 | 21.42381800000 | -158.19697600000 100 ft | fine to coarse sand; some black clasts, few chunks; some anoxic zones22; no |
| WO-S7 | Sediment | Y | 6/5/2006 | 21.42394500000 | -158.19686400000 100 ft | explosives samples |
| WO-S8 | Sediment | Y | 6/5/2006 | 21.42403900000 | -158.19678700000 100 ft | fune to coarser grained sand; few black clasts; a few larger coraline chunks; looks fully oxic; no explosives samples |
| P-S1 | Sediment | Y | 6/5/2006 | 21.43958300000 | -158.20143300000 80 ft | Pokai Sand channel; ponar grab; grey sand; relatively uniform; some rusty spots; ROV footage |
| P-S2 | Sediment | Y | 6/5/2006 | 21.4401000000 | -158.1987000000 55 ft | ponar grab; tan uniform fine sand very homogeneous; near target 75 |
| P-S3 | Sediment | Y | 6/5/2006 | 21.44066700000 | -158.1977000000 41 ft | ponar grab; uniform sand; grey - tan (no photo); limited amount collected |
| P-S4 | Sediment | Y | 6/5/2006 | 21.44228300000 | -158.19655000000 31 ft | ponar grab; relatively uniform fine sand; tan |
| PB-1 | Sediment | Y | 6/6/2006 | 21.44409300000 | -158.19117500000 15 ft | ponar grab; off Pokai Bay jettie (southern one); uniform sand; mix of carbonate and black clasts; no large objects; mostly medium to fine sand |
| PB-2 | Sediment | Y | 6/6/2006 | 21.44409300000 | -158.19117500000 15 ft | ponar grap; 2nd sample at same site as PB-1; same stuff; took photo; took photo of jetties for reference |
| | | | | | | |
| | | | | | | |
| | | | | | | |

| SiteName | SampleType | Successful | SampleDate | Lat | Lon | Depth | Notes |
|------------|------------|------------|------------|----------------|------------------|------------|--|
| | | | | | | | Fish Haven Area; just outside fish haven; very limited samples; a few fine grains of |
| | | | | | | | sand only with some algae; entire sample to Dave Winandy; will be returned for |
| FH-S1 | Sediment | Y | 6/6/2006 | 21.41653700000 | -158.19032700000 | 45 ft | OLS after XRF analysis; ROV showed primarily hardbottom |
| 511.00 | 0 " | | 0/0/0000 | | 450 4070700000 | 1104 | 3 ponar tries; hard bottom; very poor recovery; less than 1g of material; mostly |
| FH-S2 | Sediment | Y | 6/6/2006 | 21.41446000000 | -158.19737200000 | 110 ft | carbonate sand; Dave attempted to fill XRF cup padded to fill volume |
| FH-S3 | Sediment | v | 6/6/2006 | 21 /1637700000 | -158 10171700000 | 45 ft | sand with biomatter ?; seems gooey; about 50g collected; 1 rounded basait clast; |
| 111-00 | Sediment | 1 | 0/0/2000 | 21.41037700000 | -130.19171700000 | 45 10 | sediment sampling in sand channel area to S of Wajanae Sewage Outfall nine: line |
| | | | | | | | 1: will try 5 lines at 600m each to get 5 samples per line: grey sand with anoxic |
| 6-7-Sed1-1 | Sediment | Y | 6/7/2006 | 21.42336200000 | -158.19278400000 | 60 ft | zones |
| 6-7-Sed1-2 | Sediment | Y | 6/7/2006 | 21.42245000000 | -158.19233100000 | 60 ft | finer grey - tan sand; no anoxic zones |
| | | | | | | | |
| 6-7-Sed1-3 | Sediment | N | 6/7/2006 | 21.42163600000 | -158.19192500000 | 50 ft | ponar stuck in plates; position noted; will recover with divers; no sample taken |
| | | | | | | | very small recovery of mostly biological material; probably insufficient for analysis; |
| 6-7-Sed1-4 | Sediment | Y | 6/7/2006 | 21.42046500000 | -158.19219500000 | | Dave Winandy is analyzing the entire sample |
| 6-7-Sed2-1 | Sediment | Ν | 6/7/2006 | 21.42405700000 | -158.19391300000 | 66 ft | failed attempt |
| 6-7-Sed2-2 | Sediment | Υ | 6/7/2006 | 21.42419200000 | -158.19341200000 | 52 ft | very small biomaterial sample recovered; Dave is analyzing |
| 183537 | Sediment | Y | 6/7/2006 | 21.43611500000 | -158.19759700000 | | ponar recovered coralline algae; saved for analysis |
| 184208 | Sediment | Y | 6/7/2006 | 21.44009900000 | -158.19889800000 | 50 ft | near Pokai sand channel; grey uniform sand; medium to fine grained |
| 185058 | Sediment | Y | 6/7/2006 | 21.44139100000 | -158.19858500000 | 42 ft | grey-tan uniform medium to fine sand with anoxic zones |
| 190142 | Sediment | Y | 6/7/2006 | 21.44212100000 | -158.19786400000 | 40 ft | grey-tan uniform medium to fine sand; seems fully oxic |
| 190753 | Sediment | Y | 6/7/2006 | 21.44250900000 | -158.19721100000 | 35 ft | grey-tan uniform medium to fine sand; seems fully oxic |
| 191517 | Sediment | Y | 6/7/2006 | 21.44311500000 | -158.19649300000 | 35 ft | tan; uniform medium grained sand |
| 192245 | Sediment | Y | 6/7/2006 | 21.44170500000 | -158.19913700000 | 50 ft | grey sand with anoxic zones; medium to fine grained sand |
| 192804 | Sediment | Y | 6/7/2006 | 21,44259600000 | -158,19857400000 | 43.5 ft | tan uniform oxic medium grained with some large white shell fragments |
| | | | | | | | mostly tan sand with some anoxic zones; similar grain size to previous few |
| 193910 | Sediment | Υ | 6/7/2006 | 21.44330100000 | -158.19821200000 | 40 ft | samples |
| 195033 | Sediment | Y | 6/7/2006 | 21.44205100000 | -158.19983900000 | 52 ft | greyish tan sand with significant amount of anoxic zones (30%) |
| 200211 | Sediment | Y | 6/7/2006 | 21.44275500000 | -158.19942700000 | 38 ft | mostly tan sand; coarse medium grain fully oxic |
| 201005 | Sediment | N | 6/7/2006 | 21.44339800000 | -158.19925100000 | 43 ft | coral bootom; failed attempt |
| 202144 | Sediment | Y | 6/7/2006 | 21.44213800000 | -158.20022200000 | 56 ft | mostly tan - slightly grey sand; fully oxic; medium grained |
| 202712 | Sediment | N | 6/7/2006 | 21.44340800000 | -158.19986100000 | 45 ft | coral; failed |
| 203210 | Sediment | Y | 6/7/2006 | 21.44282700000 | -158.20011800000 | 53 ft | coarser sand; tan with more abundant shell fragments |
| 203953 | Sediment | Y | 6/7/2006 | 21.44159200000 | -158.19958100000 | 52 ft | grey finer grained sand |
| 204553 | Sediment | Y | 6/7/2006 | 21.44259400000 | -158.20085200000 | 56 ft | tan sand; relatively fine grgain to medium |
| 205317 | Sediment | Y | 6/7/2006 | 21.44175600000 | -158.20062400000 | 59 ft | grevish coarser sand; black clasts and shells |
| 210607 | Sediment | Y | 6/7/2006 | 21,44351400000 | -158.20078100000 | 51 ft | small sample; tan sand with a few pieces of coral rubble; same shells |
| 211436 | Sediment | Y | 6/7/2006 | 21,44312700000 | -158.20134800000 | 53 ft | limited sample: tan sand with large coral rubble chunks |
| 214458 | Sediment | Y | 6/7/2006 | 21,44234200000 | -158.20069400000 | 55 ft | medium to coarse tan sand: fully oxic |
| 100203 | Sediment | Y | 6/8/2006 | 21,44151000000 | -158.20128900000 | 54 ft | coarse heterogeneous sediment with coralline and basaltic clasts |
| | 000 | • | 0,0,2000 | | | | mostly coralline rubble with some sand; very low recovery; entire sample to Dave |
| 180927 | Sediment | Υ | 6/8/2006 | 21.42557300000 | -158.19717300000 | 54 ft | Winandy |
| 181920A | Sediment | N | 6/8/2006 | 21.42742500000 | -158.20403500000 | 103-114 ft | 50 cal casing recovered by ROV |
| | | | | | | | brass hatch or porthole ring with Pirites lobata juveniles attached; removed several; |
| | | | | | | | also red encrusting organisms; base of P. lobata colonies have green (CuO?) |
| 181920B | Sediment | Υ | 6/8/2006 | 21.42742500000 | -158.20403500000 | 103-114 ft | material where they attach to ring |
| 205636 | Sediment | Ν | 6/8/2006 | 21.42788500000 | -158.20209200000 | 80 ft | ROV retreival of 50 cal casing |
| | | | | | | | tan sand; fine to medium grain with some very fines; filtered off water through 0.8 |
| ADA-1 | Sediment | Y | 6/8/2006 | 21.42521700000 | -158.19753900000 | | micron filter) |
| ADA-2 | Sediment | Y | 6/8/2006 | 21.42521700000 | -158.19753900000 | | tan fine to medium grained; filtered through 0.8 micron filter |
| ADA-3 | Sediment | Y | 6/8/2006 | 21.42521700000 | -158.19753900000 | | coarser sediment with shell and coral rubble gragments and some algae filaments; filter stained pink/red |
| | Sediment | v | 6/9/2000 | 21 42526700000 | -158 10252000000 | | fine to medium grain sediments; grey in color; few clasts; entire sample for |
| | Seument | 1 | 0/0/2000 | 21.42320700000 | -100.19203900000 | | |

| SiteName | SampleType | Successful | SampleDate | Lat | Lon | Depth | Notes |
|----------|------------|------------|------------|----------------|------------------|-------|--|
| | | | | | | | medium to coarse sediment with numerous shell fragments; tan in color; no filtering |
| ADA-5 | Sediment | Y | 6/8/2006 | 21.42536100000 | -158.20066700000 | | needed; filtered |
| ADA-6 | Sediment | Y | 6/8/2006 | 21.42536100000 | -158.20066700000 | | medium grain; tan in color; numerous shell fragments and coral rubble; filtered |
| 404.7 | Cadimant | N/ | C/0/2000 | 04 40506400000 | 450 00000700000 | | small sample size; medium to coarse grains tan in color; mainly shell fragments |
| ADA-7 | Sediment | Y | 6/8/2006 | 21.42536100000 | -158.20066700000 | | and coral rubble; filtered; eliminated rubble; all to Dave |
| ADA-8 | Sediment | Y | 6/8/2006 | 21.42619400000 | -158.20116700000 | | coarse sand with coral rubble fragments which were removed prior to sample splitting; mostly ??? very few black clasts; tan with hints of grey; filtered |
| | Sediment | v | 6/8/2006 | 21 42619400000 | -158 20116700000 | | mostly tan sand fine to coarse grained; few to no black clasts; only one coral rubble fragment which was removed prior to processing; filtered |
| ADA-9 | Sediment | 1 | 0/0/2000 | 21.42013400000 | -130.20110700000 | | tan medium coarse sand with large fragments of coral rubble: small sample: filter |
| ADA-10 | Sediment | Y | 6/8/2006 | 21.42619400000 | -158.20116700000 | | had red residue |
| ADA-11 | Sediment | Y | 6/8/2006 | 21.42619400000 | -158.20116700000 | | filtered; some algae filaments |
| ADA-12 | Sediment | Y | 6/8/2006 | 21.42469400000 | -158.19997200000 | | fine to coarse grained tan sand |
| ADA-13 | Sediment | Y | 6/8/2006 | 21.42536100000 | -158.20066700000 | | fine to coarse grained tan sand; no large fragments |
| ADA-14 | Sediment | Y | 6/8/2006 | 21.42383000000 | -158.2005000000 | | finer sand and coral fragments which were removed; 3 samples composited (ADA-14,15,16) |
| | | | | | | | finer sand and coral fragments which were removed; 3 samples composited (ADA- |
| ADA-15 | Sediment | Y | 6/8/2006 | 21.42383000000 | -158.2005000000 | | 14,15,16) |
| | | | | | | | finer sand and coral fragments which were removed; 3 samples composited (ADA- |
| ADA-16 | Sediment | Y | 6/8/2006 | 21.42383000000 | -158.2005000000 | | 14,15,16) |
| ADA-17 | Sediment | Y | 6/8/2006 | 21 42383000000 | -158 2005000000 | | kept separate: much coarser sand with small pebbles: fragments of coralline algae |
| NDA-1 | Sediment | Y | 6/8/2006 | 21.42888300000 | -158 20096700000 | | medium to coarse grained tan sand: some black clasts |
| | Occament | • | 0/0/2000 | 21.4200000000 | 100.20000100000 | | relatively uniform medium grained tan sand with few black clasts; no fragments; |
| NDA-2 | Sediment | Y | 6/8/2006 | 21.43330000000 | -158.19638300000 | | Target 11 |
| NDA-3 | Sediment | Y | 6/8/2006 | 21.43330000000 | -158.19638300000 | | highly heterogeneous fine to very coarse sand with large coral rubble fragments; Target 11 |
| NDA-4 | Sediment | Y | 6/8/2006 | 21.43330000000 | -158.19638300000 | | highly heterogeneous fine to very coarse sand with large coral rubble fragments; removed a few large coral rubble chunks; Target 11 |
| | | | | | | | fine grained to coarse with small shell fragments; tan; no apparent clasts of |
| NDA-5 | Sediment | Y | 6/8/2006 | 21.43416700000 | -158.19833300000 | | volcanic matter; Target 21 |
| NDA-6 | Sediment | Y | 6/8/2006 | 21.43416700000 | -158.19833300000 | | The grained with less coarse grained material and small shell fragments; tan; no apparent clasts of volcanic matter; Target 21 |
| | Sodimont | v | 6/8/2006 | 21 42416700000 | 158 10822200000 | | tine grained with less coarse grained material and small shell tragments; tan; no |
| NDA-7 | Sediment | | 0/0/2000 | 21.43410700000 | -130.19033300000 | | fine to medium coarse grained tan sand: largely marine, black clasts rare: Target |
| NDA-8 | Sediment | Y | 6/8/2006 | 21.43116700000 | -158.19566700000 | | 18 |
| NDA-9 | Sediment | Y | 6/8/2006 | 21.43416700000 | -158.19833300000 | | fine to coarse grained oxic sand; with one live turban shell removed; Target 21 |
| | | | | | | | medium coarse sand to coarser; with shell fragments and live turban shells |
| NDA-10 | Sediment | Y | 6/8/2006 | 21.43416700000 | -158.19833300000 | | removed; Target 21 |
| NDA-11 | Sediment | Y | 6/8/2006 | 21.4310000000 | -158.19566700000 | | fine to coarse oxic sand with some shell fragments and a few pebbles; Target 18 |
| NDA-12 | Sediment | Y | 6/8/2006 | 21.4310000000 | -158.19566700000 | | medium to coarse sand; fully oxic; small shell fragments; Target 18 |
| NDA-13 | Sediment | Y | 6/8/2006 | 21.4310000000 | -158.19566700000 | | tan oxic snad; fine to coarse; Target 18 |
| NDA-14 | Sediment | Y | 6/8/2006 | 21.43330000000 | -158.19971700000 | | fine and very coarse sand; coralline algae fragments and other mm size clasts; Target 11 |
| NDA-15 | Sediment | Y | 6/8/2006 | 21.42888800000 | -158.20096700000 | | uniform medium coarse sand; tan; some isolated black clasts |
| NDA-16 | Sediment | Y | 6/8/2006 | 21.42888800000 | -158.20096700000 | | uniform sample; medium coarse sand; very similar to NDA-15 |
| NDA-17 | Sediment | Y | 6/8/2006 | 21.4206000000 | -158.1908000000 | | fine and very coarse sand with abundant coralline algae fragments; worm tube housings and other mm and biogenic structures; Target 42 |
| NDA-18 | Sediment | Y | 6/8/2006 | 21.42060000000 | -158.1908000000 | | fine through coarse sand with shell fragments; dead crab (5mm); Target 42 |

Page 4

| SiteName | SampleType | Successful | SampleDate | Lat | Lon | Depth | Notes |
|----------|------------|------------|------------|----------------|------------------|-------|---|
| | | | | | | | fine to medium grained tan sand; fewer fragments and low abundance of coarse |
| NDA-19 | Sediment | Y | 6/8/2006 | 21.4206000000 | -158.1908000000 | | clasts; Target 42 |
| | | | | | | | |
| | | | | | | | fine to very coarse; lots of biogenicfragments; grey anoxic zones within bagie; |
| NDA-20 | Sediment | Υ | 6/8/2006 | 21.4206000000 | -158.1908000000 | | some black clasts; removed largest coralline rubble fragments; Target 42 |
| | | | | | | | medium to coarse sand with abundant coralline algae; N1-2mm size particles |
| NDA-21 | Sediment | Y | 6/8/2006 | 21.43025000000 | -158.20176700000 | | darker than most tan sands; to light brown; Target 69 |
| NDA-22 | Sediment | Y | 6/8/2006 | 21.43025000000 | -158.20176700000 | | brown fairly uniform medium to coarse sand; Target 69 |
| | | | | | | | unlike previous Target 69 samples this is a mixture of some fine but largely coarse |
| NDA-23 | Sediment | Υ | 6/8/2006 | 21.43025000000 | -158.20176700000 | | sand and biogenic shell fragments; Target 69 |
| | | | | | | | light brown mixed with tan sand; some larger coral rubble fragments removed; |
| NDA-24 | Sediment | Υ | 6/8/2006 | 21.43025000000 | -158.20176700000 | | Target 69 |