

Kasano ti Mangisagana



Dagiti Plano a Panangkontrol iti Panagreggaay ken Arinsaed (Erosion and Sediment Control Plans)

Para Kadagiti Babassit A Proyekto Ti Konstraksyon

DAGITI KATEGORYA (CATEGORY) 1A, 1B, KEN 2



siyudad ken county ti Honolulu

ILOCANO

HULYO 2019

Mabalin a pakaigapuan ti panagayus ti rugit kadagiti karkarayan ken baybaytayo dagiti proyekto a konstraksyon.



No agtudo, wenna no mausar ti danum iti site, mabalin a rumuar ti rugit iti site a maikuyog iti danum no agbagyo.



I-expose dagiti proyekto a konstraksyon ti daga.



Maikuyog a maiyanud dagiti rugit ken dadduma pay a basura.



Agayus ti rugit ken basura iti baybay.

Usaren dagiti aksyon a pangproteksyon/Kasasayaatan a Sursuro iti Panangimaton (Best Management Practices, BMPs) para iti kalidad ti danum a nailadawan iti daytoy a buklet tapno maprotektaran dagiti dandanum ken baybaytayo.



SIYUDAD KEN COUNTY TI HONOLULU

**KASANO TI MANGISAGANA KADAGITI PLANO A
PANANGKONTROL ITI PANAGREGGAAY KEN ARINSAED
(EROSION AND SEDIMENT CONTROL PLANS) PARA
KADAGITI PROYEKTO A BASSIT A KONSTRAKSYON
DAGITI KATEGORYA (CATEGORY) 1A, 1B, KEN 2**

Panggep daytoy a Buklet

Ti panggep daytoy a buklet ket tapno mapasayaat ti kalidad ti panagayus iti sistema ti siudad a pagayusan ti bagyo (storm drain system) ken makissayan dagiti rugit kadagiti karkarayan ken baybaytayo.

Daytoy a buklet kep para kadagiti proyekto a residensyal ken komersyal nga agkasapulan iti building ken/wenno grading permit ken addaan kadagiti Aktibidad a Makasinga iti Daga (Land Disturbing Activities) iti lugar a nakurkurang ngem maysa nga ektarya. Dagiti gagangay a proyekto ti pasdek a napalubusan a mainaig kadagiti Aktibidad a Makasinga iti Daga (Land Disturbing Activities) ken potensyal a pakai gapuan ti polusyon kadagiti pagayusan ti danum ti Siyudad ket kaibilangan ti:

- Dagiti pangsangga a pader (retaining wall) ken alad
- Dagiti Pannakatarimaan ken Pannakaaramid Manen ti Pundasyon
- Dagiti Pannakatarimaan ken Pannakaaramid Manen ti Sidewalk ken Driveway
- Demolisyon ti Balay, Panagnayon, ken Baro a Residential a Konstraksyon
- Dagiti swimming pool
- Dagiti yutilidad (kas iti. plumbing, electrical, kdpy.)

Makategorya dagitoy a proyekto a kas Category 1A, 1B, wenno 2 a Proyekto wenno kas Bassit a Panagdebelop. Sigun iti "Dagiti Pagalagadan a Mainaig iti Kalidad ti Danum (Rules Relating to Water Quality)" (Dagiti Administratibo a Pagalagadan ti Siudad §20-3), ti Kategorya 1A, 1B ken 2 a Proyekto ket masapul nga addaan iti Plano iti Panangkontrol iti Panagreggaay ken Arinsaed, a karaman ti checklist, diagram ti site, ken iskedyl ti proyekto. Tumulong daytoy a buklet kadagiti agtagikua iti balay (homeowners) ken kontraktor iti panangammoda iti kategorya ti proyekto, mangted iti giya para iti panagaramid iti Plano iti Panangkontrol iti Panagreggaay ken Arinsaed, ken ipalawagna dagiti aksyon a pangproteksyon iti kalidad ti danum wenno Dagiti Sursuro iti Panangimaton (Management Practices, BMPs), a kas iti biosocks ken silt fences.

Dagiti Proyekto a Bassit ti Panagdur-asna, kas iti panagipatakder kadagiti poste ti alad, ket masapul a kakuyog ti masapul a nota ti BMP kadagiti plano ti konstraksyon, ngem saan a kasapulan ti Plano iti Panangkontrol ti Panagreggaay ken Arinsaed.

Dagiti site ti proyekto a makaited iti pannakarugit (agraman dagiti arinsaed) iti storm water system ti Siyudad ket maikkan kadagiti abiso ti panagsalungasing ken multa.

KASANO NGA USAREN DAYTOY A BUKLET

Dagitoy dagiti addang iti panangusar iti daytoy buklet tapno maammoan dagiti kasapulan para iti proyektom ken no kasano a maannurot dagitoy.

ADDANG		SEKSYON TI BUKLET
1	Ammoem ti kategorya ti Proyektom babaen iti panangusarmo iti flow chart.	Kabuklan a Kapanunutan (Overview)
2	Repasoen Dagiti kasapulan ti kategorya ti proyekto.	Kabuklan a Kapanunutan (Overview)
3	Ammoem no ania ti Kasayaatan a Sursuro iti Panagimaton (Best Management Practices, BMPs) nga usaren iti site ti Proyektom.	Dagiti Aksyon a Pangproteksyon/BMPs
4	Repasoen dagiti pagarigan ti nakumpleto a form ti Proyekto.	Diagram ti Site/Dagiti Pannakaadal ti Kaso (Case Studies)
5	Repasoen dagiti kasapulan iti inspeksyon.	Sampol a Form ti Inspeksyon

Kapitalisasyon

Para iti panagpapada, dagiti balikas wenno ragup dagiti balikas a naka-capitalize ken naipalawag kadagiti Pagalagadan ti County ti Honolulu a Mainaig iti Kalidad ti Danum (§20-3-3) ket naka-capitalize iti isuamin a passet daytoy a buklet.

KASANO TI MANGISAGANA KADAGITI PLANO ITI PANANGKONTROL ITI PANAGREGGAAY KEN ARINSAED (EROSION AND SEDIMENT CONTROL PLANS) PARA KADAGITI BASSIT A PROYEKTOTI KONSTRAKSYON

Dagiti Kategoriya (Category) 1A, 1B, ken 2

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DAGITI PAGBASARAN KADAGITI KAIPAPANAN KEN GRADING PERMIT (KITAEN TI PANID 3)

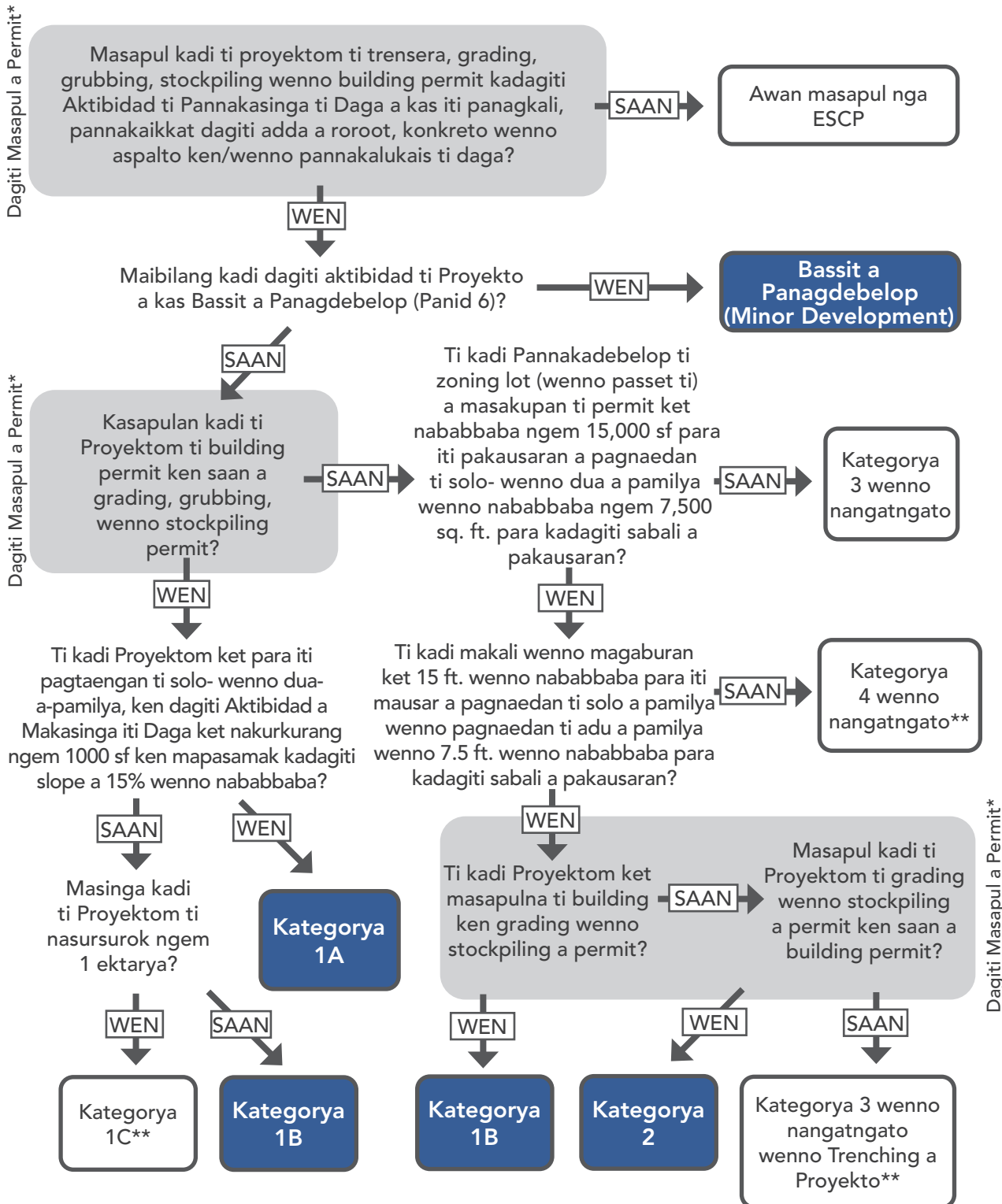
Grading aniaman a makali wenno magaburan wenno aniaman a kumbinasyon daytoy.

Dagiti grading permit ket masapul no simpaen ti 50 cubic yards wenno nalawlaw wenno 3 kadapan wenno bertikal a nangatngato wenno panangbaliw iti turong ti ayos a maiyannurot kadagiti aglawlaw a sanikua.

Ti Grubbing ket aniaman nga aramid a ti mula, agraman kayo, tarikayo, muyong ken mula, ket maikkat wenno maparut manipud iti daga. Masapul ti grubbing permit no kayaskasen ti 15,000 sf wenno nalawlaw pay a lugar.

Stockpiling Ti temporaryo a pannakabunton ti daga nga ad-adu ngem 100 cubic yards iti aniaman a lugar malaksid kadagiti lugar nga adda naiparuar a permit ti panangsimpa para iti panggep a panangusar iti daga a paggabur iti sumagmamano a sabali a disso iti masangoanan.

PANANGAMMO ITI KATEGORYA TI PROYEKTOM



Palagip

- * No kasapulan ti proyekto ti trenching permit a mainayon kadagiti sabali a permit, ti nangatngato a kategorya ti proyekto (1A, 1B, 1C, 2-5) ket mayaplikar, malaksid no ma-classify daytoy a Bassit a Panagdebelop.
- ** Dagiti kasapulan para kadagiti Kategorya 1C, 3 wENno nangatngato ken dagiti Trenching Project ket saan a saklawen daytoy a buklet.

NASINGA A LUGAR (DISTURBED AREA)

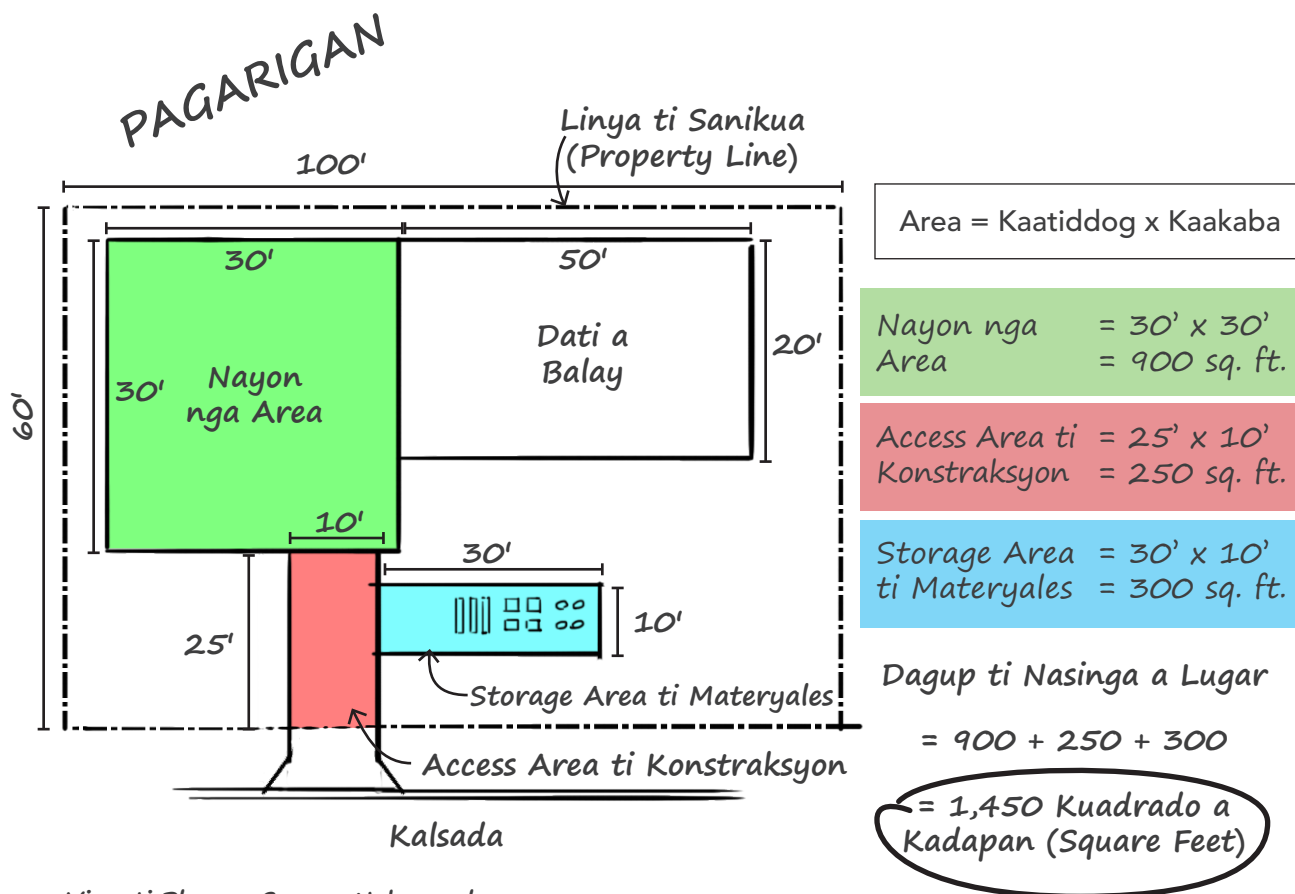
Dagiti Masinga a Lugar ket aniaman a lugar a ti dati a daga ket nasinga ken maiparang ti makin-uneg a daga.

Maibilang kadagiti pagarigan dagiti aktibidad a makasinga iti lugar ti: panagkali, pannakadadael ti dati a karootan, konkreto wenno aspalto; pannakaiparang ti puro a daga; panagserrek dagiti dadakkel a trak; panagkali, storage/staging ti gamit, demolisyon dagiti dati a pundasyon/istruktura ken pannakaipatakder dagiti baro nga istruktura; grading, grubbing, ken trenching.

Pananguwenta iti Nasinga a Paset ti Proyektom:

1. Rukuden ti kaatiddog (length) ken kaakaba (width) iti kadapan ti isuamin a masinga a lugar agraman ti aniaman nga akses ti konstraksyon ken ti(dagiti) lugar ti storage/staging.
2. I-multiply ti kaatiddog iti kaakaba para iti tunggal paset.
3. Pagdadagupen ti tunggal indibidwal a Nasinga a Lugar tapno maala ti dagup ti Nasinga a Lugar wenno no ti sibubukel a lote ket masinga, usaren ti buo nga area ti lote.

Pagarigan: Konstraksyon ti Nayon a Pagnaedan



View ti Plano a Saan a Naka-scale

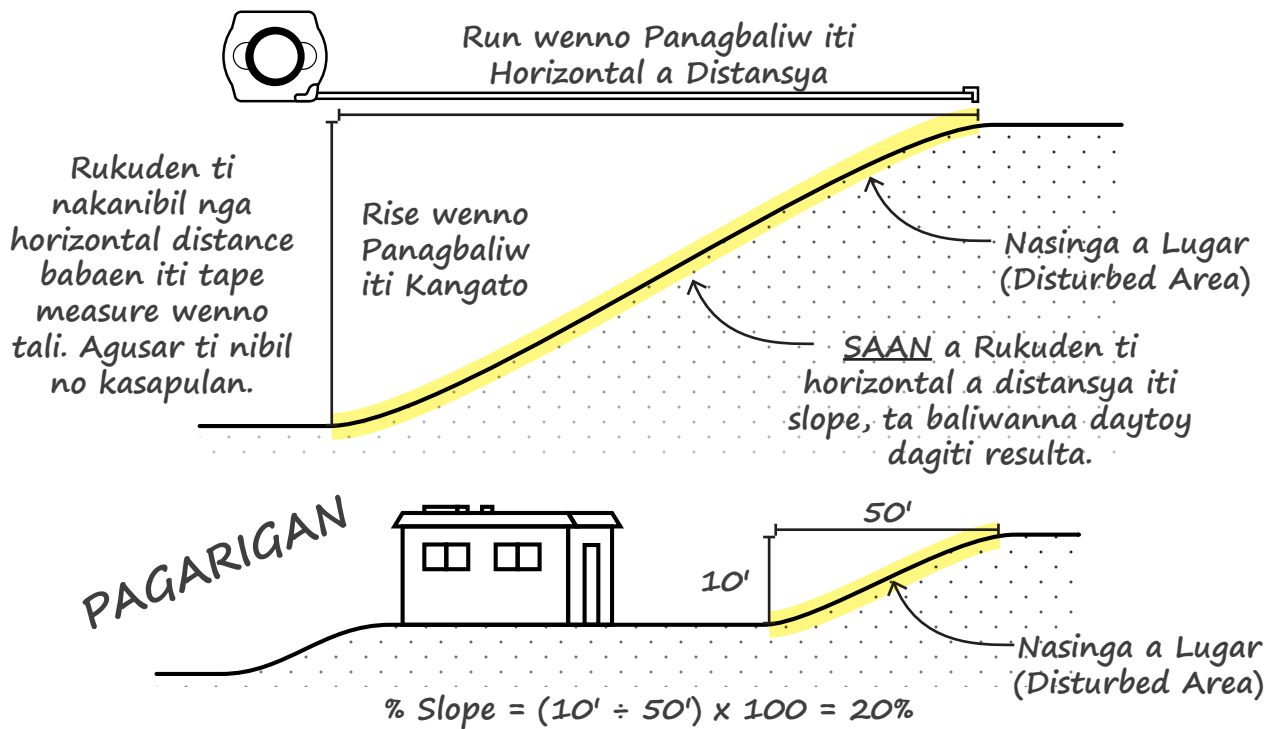
SAKLAW

No kabilang iti Nasinga a Lugar ti lugar nga addaan slope, masapul a marukod ken makuwenta dayta nga slope. Panangkuwenta iti slope ti Nasinga a Lugar ti proyektom:

- Addang 1.** Rukuden ti panagngato (rise) wenna panagbaliw ti kangato (height) iti uneg ti Nasinga a Lugar.
- Addang 2.** Rukuden ti kaadayo (run) wenna ti kaatiddog ti distansya (distance) ti adda panagbaliw ti kangatona (height). Siguradoen nga usaren ti agpapada a yunit ti panagrukod (kas iti kadapan, yarda) a kas iti Addang 1.
- Addang 3.** I-divide ti rise babaen iti run ken i-multiply iti 100.

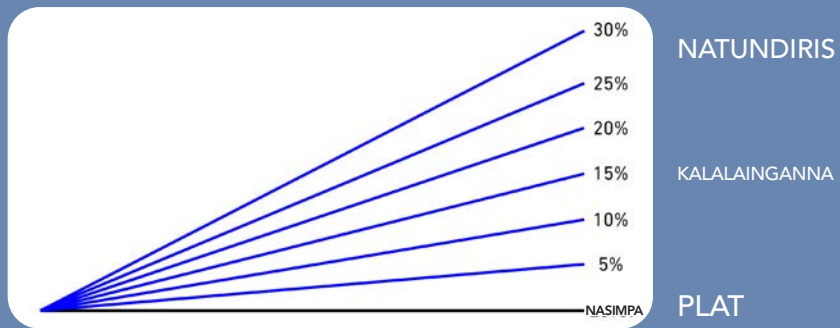
$$\% \text{ slope} = (\text{rise} \div \text{run}) \times 100$$

Palagip: No atiddog nga span ti slope mo, rukuden ti rise ken run iti babbabassit a distansya. Kalpasanna dagupen ti isuamin a rukod ti rise ken dagupen ti isuamin a rukod ti run tapno maala ti dagup a run.



ALTERNATIBO A PAMAY-AN

Usaren ti chart dita baba ken ti imam tapno kitaen ti kapapasdukan nga slope ti proyekto tapno makarkulo ti slope ti site.



KATEGORYA 1A ,1B, 2 WENNO PAGBASARAN TI BASSIT A PANAGDEBELOP

Dagiti Kategorya 1A, 1B, 2 ken dagiti Proyekto a Bassit a Panagdebelop ket dinepenar ti “Rules Relating to Water Quality” ti Department of Planning and Permitting ti Siyudad ken County ti Honolulu (City Administrative Rules §20-3).

Ti Kategorya 1A, 1B, 2 ken dagiti Proyekto a Bassit a Panagdebelop ket masapulna ti building permit ken/wenno ti grading, grubbing wenno stockpiling a permit ken/wenno ti trenching permit ken makategoryada a kas iti sumaganad:

Kategorya 1A Pagbasaran ti Proyekto:

- Residensyal naisina a Panagdebelop a para iti solo a pamilya wenno dua a pamilya, ken
- Ti Kabuklan a Nasinga a Lugar para iti Proyekto ket nababbaba ngem 1,000 square feet, ken
- Ti area ti Proyekto ket addaan iti slope a nababbaba ngem 15%.

Kategorya 1B Pagbasaran ti Proyekto:

- Ti Pannaka-develop a nababbaba ngem maysa ektarya a Nasinga a Lugar nga agkasapulan iti building permit, a saan a makasabet iti pagbasaran ti Kategorya 1A ti Proyekto, ken saanna a masapul ti grading, grubbing wenno stockpiling a permit; wenno
- Ti pannaka-develop ti zoning lot wenno pasetna iti babaen ti permit ket nababbaba ngem 15,000 square feet para iti pagnaedan ti solo a pamilya wenno dua a pamilya a pakausaran ken nababbaba ngem 7,500 square feet para iti sabali a pakausaran a makasapul iti building permit ken ti grading wenno stockpiling permit.
- Residensyal a para iti solo a pamilya wenno dua a pamilya a naisina a Panagdebelop nga addaan kadagiti slope ti Nasinga a Lugar a 15% wenno nangatngato.

Kategorya 2 Pagbasaran ti Proyekto:

- Pannaka-debelop nga agkasapulan iti grading wenno stockpiling a permit, ngem saan a building permit no ti area ti zoning lot (wenno pasetna) nga adda iti babaen ti permit ket nababbaba ngem 15,000 square feet para iti pagnaedan ti solo a pamilya wenno dua a pamilya a pakausaran ken nababbaba ngem 7,500 square feet para iti sabali a pakausaran.

Bassit a Panagdebelop (Minor Development)

Dagiti panagdebelop nga agkasapulan iti trenching, building, grading, grubbing wenno stockpiling a permit ken addaan iti scope ti proyekto a limitado kadagiti sumaganad nga aktibidad ket maibilang Bassit a Panagdebelop:

- Panangikabil kadagiti footing* wenno dagiti poste para iti konstraksyon dagiti alad, deck, atep, ken trellis a mausar a pagnaedan ti solo a pamilya wenno dua a pamilya.
- Trabaho a dagiti Aktibidad a Makasinga iti Daga ket limitado iti mainaig nga equipment ken material staging para iti naipalubos a trabaho a saan a makasinga iti daga - kas iti panagalad iti patyo iti ruar ti balay, beranda wenno nayon iti second-story a pagtalinaedan ti dati a simento nga slab.
- Dagiti Aktibidad a Makasinga iti Daga a maaramid laeng iti sirok ti adda atepna wenno sabali a sakop ken dagiti dati a kondisyon ti site ket lapdanna ti danum ti tudo a mapan iti Nasinga a Lugar.
- Trabaho a saan a nailista iti ngato a mangsinga iti saan a dakdakkal ngem 120 square feet a daga malaksid kadagiti Proyekto a pader ti alad, pagsangga a pader ken driveway apron. (Dagiti Proyekto a pader ti alad, pagsangga a pader ken driveway apron a nababbaba ngem 120 square feet ket masapulna dagiti Plano a Pangkontrol iti Panagreggay ken Arinsaed (Erosion and Sediment Control Plans).)
- Proyekto a Trenching iti uneg ti right-of-way ti Siyudad para kadagiti lateral ti maysa a sanikua.

* Dagiti continuous (wenno linear) footings para kadagiti alad ken pader ket saan a maibilang a Bassit a Panagdebelop ken masapulna ti ESCP.

DAGITI MASAPUL TI KATEGORYA 1A/1B/2

Dagiti Projekto ti Kategorya 1A, 1B ken 2 ket masapulna ti:

1. Ti Plano a Panangkontrol iti Panagreggaay ken Arinsaed (Erosion and Sediment Control Plan, ESCP) nga insagana ti makinkukua (owner) iti sanikua wenno Awtorisado nga Ahente.
2. Ti designasyon ti maysa a Tagakoordina ti ESCP (Appendix A wenno B dagiti Pagalagadan) sakbay ti pannakaiked ti permit.
3. Pannakasukimat ti site babaen iti Tagakoordina ti ESCP sakbay ti pannaka-construct ken maminsan tunggal 30 nga aldaw agingga a malpas wenno iti katenggaanna no ti proyekto ket malpas iti nakurkurang ngem 30 nga aldaw.

KASANO TI MANGARAMID ITI ESCP

- Kompletuen ti Template ti Bassit a Proyekto ti ESCP (Appendix B dagiti Pagalagadan) wenno iraman a kas paset dagiti palagip iti plano.
- Mangaramid iti Site Diagram idiyang Template ti Bassit a Proyekto ti ESCP wenno iraman kadagiti drawing ti konstraksyon. Makita iti panid 26 daytoy a buklet ti legend ti site diagram, a sarunoen dagiti pagarigan ti case study.
- Mangituding iti Iskedyul ti Proyekto a mangted iti panagsasaruno dagiti aktibidad ti BMP.

Appendix B

City and County of Honolulu
Erosion and Sediment Control Plan Small Project Template
for Categories 1A, 1B and 2

Construction Site Project Name: _____
Physical Site Address: _____
Building Permit Application Number: _____
Disturbed Area (square-feet): _____

*Disturbed area includes the project area, construction access on adjacent surfaces, and storage staging areas.

Instructions:
Use this template to prepare an Erosion and Sediment Control Plan (ESCP) for projects under the City and County of Honolulu, Department of Planning and Permitting (DPP) Categories 1A, 1B, and 2. This ESCP may be prepared and must be signed by the property owner or an authorized agent designated by the owner. Submit a completed ESCP with the building permit application and keep a copy of the approved ESCP on the job site at all times. Any changes to the approved ESCP must be approved by the DPP.
Refer to the guidance booklet "How to Prepare Erosion and Sediment Control Plan for Small Construction Projects" available on DPP's website (www.honolulu.gov) for more information on each BMP below. Select the BMPs which will be used at the site and if not used, provide a brief explanation for why it is not needed or impracticable for the site.
Designate a certified ESCP coordinator for the project by providing the information on page 6 of this template or sending written notice to DPP (the form is available on DPP's website). The ESCP coordinator is responsible for performing inspections before construction starts and at least once every 30 days until permanent stabilization is in place.

1. EROSION PREVENTION BMPs: practices that prevent erosion from occurring.

1. Permanent Stabilization (REQUIRED)
Prior to closing of any permit(s) permanent stabilization must be in place which includes the following requirements:

- All exposed disturbed areas must be permanently stabilized with ground covering such as vegetation, gravel, or pavers;
- Rain gutters, downspouts, and channelized flows must be installed and functioning as designed;
- In seeded areas, grass or vegetation must cover at least 90 percent of the disturbed soils or must be temporary stabilized while it is growing;
- Temporary measures, such as sediment barriers, should be removed when permanent measures are in place;
- All paved surfaces must be clean; and
- Storm drain inlet filters must be removed after all cleanup activities have been completed.

2. Slope Management and Protection (Categories 1B and 2 only)
Areas disturbed on a slope greater than 15% must be protected when work is inactive for seven (7) days or more.

To find the slope, divide the vertical height of your slope by the horizontal length of your slope and multiply by 100. For example, if your slope measures 3 feet vertically, and 10 feet horizontally, your slope would be 3 / 10 X 100 = 30%.

Check if will be used:

1. Rolled erosion control products	<input type="checkbox"/>	Use
2. Hydraulic mulch or hydrosseed	<input type="checkbox"/>	Not Use
3. Hydraulic or bonded fiber matrix	<input type="checkbox"/>	Use
4. Planting and/or vegetation providing at least 70% surface cover	<input type="checkbox"/>	Not Use
5. Other: (please specify)	<input type="checkbox"/>	Use
	<input type="checkbox"/>	Not Use

If this BMP will not be used, provide brief explanation: _____

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Appendix B

SITe DIAGRAM

Provide a drawing of your site below or attach another map. Include the building outlines, property boundary or fence line, the limits of where your work will be located, flow arrows indicating direction of storm water runoff, location of BMPs, and any storm drains within 50 feet of your property. The drawing does not need to be to scale.

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DAGITI KASAPULAN TI PROYEKTO A BASSIT TI PANAGDUR-ASNA

1. Pil-apan ti form ti Sertipikasyon ti Bassit a Panagdebelop ken papermaan daytoy iti akinkukua wenno iti Awtorisada nga Ahenteda. Dagiti Proyekto a Bassit a Panagdebelop nga addaan iti nababa ti peggadna a Nasinga a Lugar (kas pagarigan. para iti equipment ken material staging, trenching para iti single lateral) ket saan nga agkasapulan iti Sertipikasyon ti Bassit a Panagdebelop.
2. Dagiti Proyekto a Bassit a Panagdebelop ket saan a mairaman manipud kadagiti masapul ti ESCP. Nupay kasta, masapul nga iraman dagiti Proyekto a Bassit a Panagdebelop dagiti palagip ti BMP a nayon dagiti naaprubaran a plano ti konstraksyon (Siyudad ken County ti Honolulu Administrative Rules §20-3-14(i)(3).

Dagiti Palagip ti Panangkontrol iti Panagreggaay ken Arinsaed para kadagiti Proyekto a Bassit a Panagdebelop.

- (i) Usaren Dagiti Kasayaatan a Sursuro iti Panagimaton (Best Management Practices, BMPs) tapno malappedan ken makissayan ti pannakadiskarga dagiti makarugit manipud iti site ti proyekto kadagiti kalsada, storm drain, karayan ken baybay. Dagiti potensyal a makarugit ket kairamanan ngem saan a limitado iti daga, dagiti produkto ti langis, pinta, solvent, basura iti demolisyon ti konstraksyon, basura, maiyakar a kasilyas, AC materials, konkreto ken aniaman a sabali a likido, paving wenno materyal a pagugasan a mabalina a makadadael no mairuar iti aglawlaw.
- (ii) Aniaman a nakatuyang a daga manipud iti daytoy nga aktibidad ket masapul a dagus a permanente wenno temporaryo a ma-stabilize babaen iti panagugar iti mula, graba, dagiti pangpatag, dagiti produkto a pangkontrol iti reggaay, wenno kapadpada a wagas malaksid no naka-iskedyul ti aktibo a trabaho iti uneg ti 14 nga aldaw.
- (iii) Isuamin a basura ti konstraksyon ken pinagugas a danum ket masapul a maikarga a nasayaat ken maibelleng.
- (iv) Masapul a madalusan wenno ma-vacuum nga inaldaw ti pagikkatan iti arinsaed.
- (v) Dagiti tapok manipud iti site ti proyekto ket saan a rumbeng a maibiyahen wenno maibelleng iti ruar ti site. Masapul nga umannurot ti trabaho iti standard iti panangkontrol iti polusyon ti angin (air pollution control) a linaon ti Hawai'i Administrative Rules: Paulo 11 Kapitulo 60.1, "Panangkontrol iti Polusyon ti Angin".

Agbasar iti seksyon ti BMP daytoy a buklet para iti ad-adu nga impormasyon kadagiti BMP.

Palagip: Segun iti §20-3-14(i)(2), ti Direktor ti Departamento ti Panagplano ken Panagpalubos ket mabalina a sapulenna kadagiti Owner dagiti proyekto a Bassit a Panagdebelop a buklen ken ipakatda ti ESCP babaen iti panangkategorya iti proyekto no madeterminar ti Direktor a masapul ti ESCP.

No kabayatan ti konstraksyon, madeterminar ti Inspektor ti Pasdek (Building Inspector) a saan a Proyekto a Bassit a Panagdebelop ti proyekto, mabagaan ti kontraktor nga isardengna ti trabaho ken mangala iti naaprubaran nga ESCP sakbay nga agtuloy. Masingir ti \$500 (doble) nga ESCP review fee para iti panangrugi iti trabaho nga awanan iti naaprubaran nga ESCP. Maipakat dagiti nayon a multa para iti pannakapalsipikar ti aplikasyon ti building permit.

PANNAKAIMPLEMENTAR TI ESCP

Karaman ti pannakaimplementar ti ESCP ti pannakadesignar ti sertipikado a Tagakoordina ti ESCP, pananggatang kadagiti suplay ti BMP ken panang-install kadagitoy, ken panangipakaammo iti inspector ti Departamento ti Panagplano ken Panagpalubos dua a lawas sakbay ti konstraksyon.

TAGAKOORDINA TI ESCP

- Ti Tagakoordina ti ESCP ket maysa nga addaan iti sertipiko a Tagakoordina ti ESCP manipud iti Departamento ti Panagplano ken Panagpalubos. Adda online training tapno maala daytoy a sertipiko (kitaem dagiti resources iti uneg ti likod a kalub daytoy a buklet). Mabalina a ti Tagakoordina ti ESCP ti owner no nag-online training ti owner ken nakaala iti sertipikasyon.
- Responsable ti Tagakoordina ti ESCP para iti pannakaimplementar daytoy iti site ti proyekto. Responsable pay ti Tagakoordina ti ESCP para iti panangaramid kadagiti kasapulan nga inspeksyon (dagiti pagarigan kadagiti panid 46 agingga iti 50), panangisubmitar kadagiti report ti inspeksyon iti Siyudad ken County, ken panangsigurado iti umiso a pannaka-install ken pannakasukat no kasapulan kadagiti BMP.
- No kabayatan ti proyekto ket masapulmo a baliwan ti designasyonmo a kas Tagakoordina ti ESCP (kas pagarigan sukatan ti Tagakoordina ti ESCP manipud project designer iti kontraktor), usaren ti Appendix A dagiti Pagalagadan.



Biosock



Silt Fence ken Dagiti Suporta



Burlap Bags para iti temporaryo nga estabilisasyon ti slope



Polypropylene Bags a kargaan iti darat wenna graba

SADINO TI PANGSARAKAN KADAGITI SUPLAY

Adda dagiti kaaduan nga aytem iti safety supply stores ken dagiti mapili a suplay kadagiti home improvement stores.

PANNAKA-ISKEDYUL/PAKAAMMO TI PETA SA TI PANANGRUGI TI KONSTRAKSYON TI PROYEKTO

Ipakaammo iti inspector ti Departamento ti Panagplano ken Panagpalubos a nakalista iti baba ti building permit mo dua a lawas sakbay ti panangrugi ti proyekto.

No adu dagiti nakalista nga inspector (kas pagarigan, electrical, plumbing, building), pakaammoan ti inspector ti trabaho nga umun-una a mangrugi.

Sampol nga Iskedyul ti Proyekto

AKSYON	TIMELINE
Pakaammoan ti Departamento ti Panagplano ken Panagpalubos iti Petsa a Mangrugi ti Proyekto	2 lawas sakbay a mangrugi ti trabaho
I-install Dagiti Aksyon a Pangproteksyon	1 aldaw
Panangusat iti Site	3 aldaw
Konstraksyon (kas pagarigan, i-install ti chain link nga alad)	1 lawas
Agmula iti Root (agraman ti oras a daytoy ket masakupanna ti nasursurok ngem 70% ti lugar) wenna i-install ti Sabali a Permanente nga Estabilisasyon	2 bulan
Ikkaten Dagiti Aksyon a Pangproteksyon	1 aldaw

PERMANENTE NGA ESTABILISASYON

Maaramid ti Permanente nga Estabilisasyon kalpasan a makumpleto ti konstraksyon a trabaho ken masapul a maiplastar sakbay ti panangiserra iti building permit.

Ti kayat a saoen ti Permanente nga Estabilisasyon:

- Dagiti Nakatuyang a Nasinga a Lugar ket ma-stabilize babaen iti maiparabaw iti daga a kas mula, graba, wenno dagiti pangpatag. No mausar ti root wenno mula, masapul a makalubanna ti saan a nababbaba ngem 90% ti nasinga a daga wenno masapul a temporaryo a ma-stabilize kabayatan a dumakdakkal daytoy;
- Dagiti gutter ti tudo, downspouts, ken naka-channel a pagayusan ken na-install ken gumangana a kas iti pannakadisenyona;
- Nadalus dagiti isuamin a napatag a paset;
- Dagiti temporaryo a nausar wenno BMP, a kas iti silt fences ken biosocks, ket naikkat a naimbag apaman a maiplastar dagiti permanente a mausar; ken
- Dagiti inlet filter ti storm drain ket naikkat kalpasan a makumpleto dagiti aktibidad ti panagdalus.

PANNAKAIKKAT TI BMP

Masapul a pagtulagan ken agsarita a naimbag ti owner ti sanikua ken ti kontraktor no sinno ti responsable para iti umiso a pannakaikkat dagiti BMP. Masapul nga maikkat dagiti temporaryo a BMP kalpasan a maaramid ti Siyudad ti pinal a pannaka-inspect ti site ken umanamong a nasayaat ti pannaka-stabilize ti site.

INLET TI STORM DRAIN / PROTEKSYON TI CATCH BASIN

1. Ikkaten ti BMP apaman a naan-anay a ma-stabilize ti site ti proyekto.
2. Kaykayan ti lugar iti aglawlaw ti storm drain inlet wenno catch basin no sadino a mabalina a naurnong dagiti arinsaed wenno sabali a basura.
3. Ikkaten ken ibelleng ti arinsaed wenno basura a naurnong iti BMP.

PALAGIP: No adda peggad ti napigsa a tudtudo kabayatan ti konstraksyon, masapul a temporaryo a maikkat ti storm drain inlet ti BMP tapno maliklikan ti pannakalayas. Masapul met a suruten ti temporaryo a pannakaikkat dagiti BMP iti umiso nga pamay-an.

PANNAKAIKKAT TI BMP

DAGITI ALAD TI SILT

1. Palubusan a maestablisar ti mula iti site. Ikkaten KALPASAN a maestablisar ti 90% a mula, saan a sakbayna.
2. Ikkaten ti aniaman a nabatbati a daga iti likod ti alad ti silt.
3. Ikkaten ti filter fabric ken dagiti pasok.
4. Gaburan, simpaen ken sedsenen ti lugar.
5. Mulaan pay ti aniaman a nakaparang a daga iti nakaikkatan ti alad ti silt.

DAGITI BAG TI BIOSOCKS, DARAT KEN GRABA

1. Ikkaten ti BMP kalpasan a makumpleto ti konstraksyon ken permanente a na-stabilize ti site.
2. Ibag-ot ti BMP manipud iti lugar.
3. Kaykayan ti aniaman a rugit a nabatbati.
4. Ibelleng ti napunno iti mulch a socks babaen iti panangikkat iti linaonna iti kamulmulaan, a kas iti garden, no sadino a maigawid ti daga—SAAN a kadagiti bangkirig a lugar!

No saan a nadisenyo ti biosock a mausar manen, ikkan iti lupot ti pagbasuraan. Dagiti biosock a nadisenyo a maulit nga usaren ket masapul a mabuggoan iti lugar a dagiti arinsaed ket maurnong tapno maliklikan ti pannakapan dagitoy iti storm drain.



Ibag-ot ti BMP manipud iti lugar.



Kaykayan ti nabati a rugit.

PANNAKAMANEHAR TI SLOPE/ TEMPORARYO NGA ESTABILISASYON

Dagiti slope a 15% wenno ad-adu ket maibilang a napasdok ken masapulna ti espesyal nga atensyon. Agingga a mabalin, saan a singaen ti napasdok nga slope no adda mapaspasangangan a tudo wenno agingga a naka-iskedyul a mangrugi ti trabaho. No maituyang dagiti napasdok nga slope ken maitantan ti trabaho iti 7 nga aldaw wenno nabaybayag, masapul ti temporaryo a pangprotekta nga aksyon/BMP.

MULA

- Agmula tapno matenggel ti daga iti dissona. Mabalin a masapulna ti pannakasibog.



- Agusar iti saluyot wenno fiber mats ti niyog a pangtenggel iti daga kabayatan a maes-establisar dagiti bukel ken mula.

AGUSAR KADAGITI BIOSOCK WENNO ALAD TI SILT

Dagiti biosock wenno alad ti silt ket back-up a sistema no rumusrusing paylang dagiti mula ken bukel. Usaren dagitoy iti baba dagiti slope ken igid dagiti proyekto agingga a makaluban dagiti mula ti saan a nababbaba ngem 70% ti lugar.

Biosock



Dagiti Alad ti Silt



PANNAKAMANEHAR TI SLOPE/ TEMPORARYO NGA ESTABILISASYON

KALUBAN TI SLOPE ITI IKAMEN

Dagiti awan arpawna nga slope ken daga ket mabalin a kaluban iti silt fabric, fiber ti niyog wenno jute netting tapno maliklikan ti pannakaanud dagiti rugit.



- Mabalin nga usaren ti silt fabric a pangkalob kadagiti slope ken awan arpawna a daga.
- Ti panangkalub iti daga ket makatulong pay a pangmentenar ti kinadalus ti site.



- Suguradoen a nakasigurado ti matting iti ngato ken baba ti slope babaen iti panangpasok, panangigalot, wenno panagtrenera wenno panangpandag kadagiti naisako a darat.



- Ti plastic wenno fabric ket napintas nga opsyon para kadagiti nakatuyang a natundiris a disso.

PANNAKAMANEHAR TI SLOPE/ TEMPORARYO NGA ESTABILISASYON

HYDRAULIC MULCH WENNO HYDROSEED



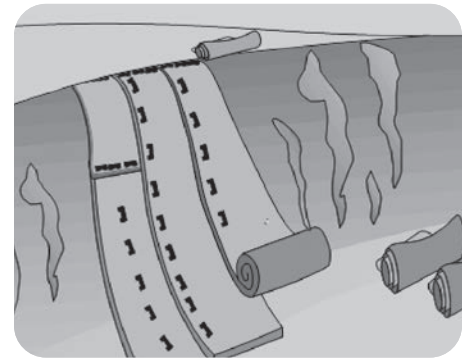
Ti hydraulic mulching ket panang-spray kadagiti fiber iti daga. Ti hydroseeding ket panang-spray kadagiti bukbukel ken fiber iti daga.



- Kanayon a maus-usar kadagiti dadakkel a site ti proyekto.
- Agusar kadagiti biosock wenno alad ti silt iti baba ti slope agingga a maabungotan dagiti mula ti 70% ti lugar.

DAGITI GEOTEXTILE KEN MAT

Dagiti geotextile ken mat ket mayaplag kadagiti slope tapno matengngel ti daga ken mapalubusan nga agayus ti danum.



- Mayannatop dagiti geotextile ken mat kadagiti ababa nga slope a napasdok.
- Gagangay a maus-usar kadagiti dadakkel a site ti proyekto.

PANNAKAITURONG TI DANUM ITI NGATO TI SLOPE

Mabalin nga agayus ti danum iti ruar ti site ti konstraksyon ken nayunanna ti panagreggaay ti daga iti site. Mabalin a dagiti biosock ken alad ti silt iti ngato ti slope ket mapabassitna ti panagayus ti danum ti tudo a sumrek iti site.

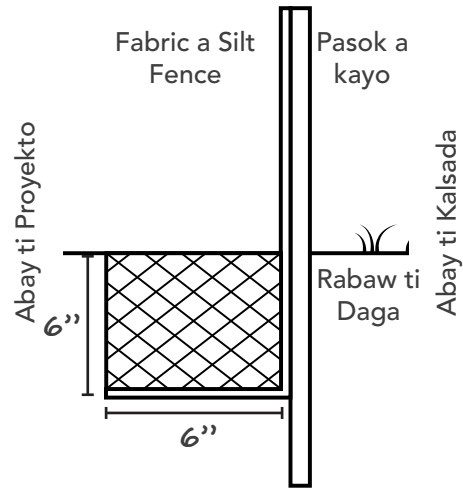
PANNAKAIKKAT DAGITI GRUBBED A MULA

Saan nga ibati dagiti na-grubb a materyal ken mula kadagiti slope a mabalin a maanud kadagiti karayan wenno iti storm drain system. Ikkaten daytoy ken protektaran dagiti slope kadagiti materyales a saan a maanud.

DAGITI KONTROL TI AGLIKMUT

ALAD TI SILT

Dagiti alad ti silt ket fabric barriers (fabric a sangga) a mamagtalinaed iti daga iti uneg ti alad.



Ti Alad ti Silt a naitrensera tapno iyangkla ti materyal iti paset a proyekto ti alad

- Napintas kadagiti lugar a saan a kasapulan ti akses.
- Isigurado ti alad ti silt kadagiti suporta kadagiti regular nga interval.

- Itrensera ti alad ti silt iti baba.
- Iposisyon a naimbag ti ngato ti barrier iti ngatoen ti rabaw ti daga.



- Nababa unay ti barrier tapno epektibo.
- Kanayon nga i-check ti dadael.



- Ok lang a palubusan ti akses ti hydrant, ngem masapul ti trensera iti alad ti silt ken agusar ti blossock iti igid ti sidewalk.



- Masapul nga ag-overlap tapno maliklikan dagiti baet a pagnaan ti danum ken rugit.
- Ibungon ti fabric iti lawlaw dagiti suporta ken i-overlap kadagiti batog a suporta tapno maliklikan dagiti baet.

SILT SCREEN

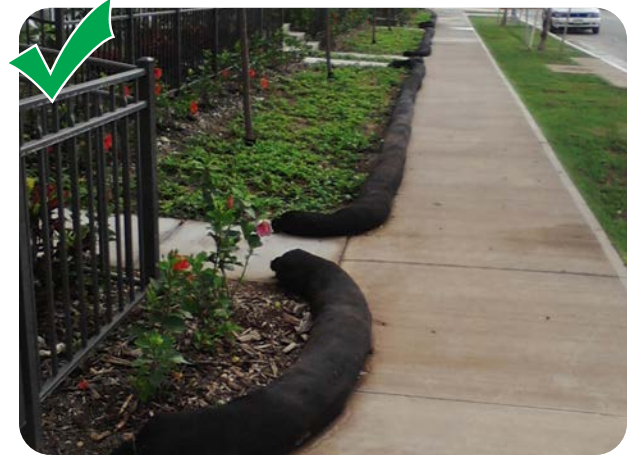
Dagiti silt screen ket low profile, mabalin nga idoble nga usaren, fabric fences a mang-screen kadagiti arinsaed ken palubusanna nga agayus ti danum.



DAGITI KONTROL TI AGLIKMUT

DAGITI BIOSOCK

Dagiti biosock ket tubo ti fabric a napno iti compost, fiber wenno sabali nga organiko a materyales. Nasayaat dagitoy kadagiti natundiris nga slope, stock piles, ken instalasyon ti landscape, ken kadagiti lugar a kanayon a mapayatan gapu ta nalaka dagitoy a mapaddakan. Dagiti filter sock ti compost ket masapul a kababaan ti 8 inches a diametro.



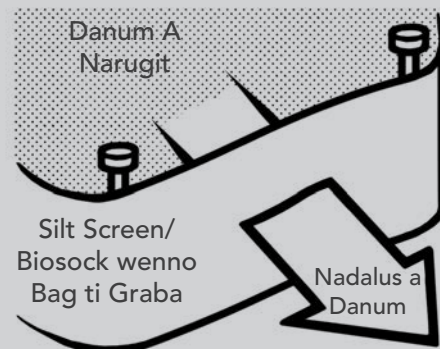
- Bay-an nga ag-overlap dagiti biosock iti saan a nababbaba ngem 6 inches tapno saan a makalusot ti danum.
- Pagtalinaeden agingga a rumaber dagiti mula.
- Iyabbed dagiti murdong ti biosocks (ken alad ti silt) iti pagayusan ti danum tapno mapagtalinaed ken malappedan ti danum a narugit a rumuar iti site ken mapan iti storm drain.
- Mabalin a kasapulan dagiti pasok tapno maisigurado dagiti biosocks no napigsa ti tudo.

DAGITI BAG TI DARAT KEN GRABA



- Mabalin nga usaren dagiti bag ti darat wenno graba imbes a biosocks.
- Mabalin nga usaren dagiti bag ti darat wenno graba tapno maisigurado ti silt fabric.

KASANO TI PANAGGANADA



PROTEKSYON TI PAGSERKAN A PAGAYUSAN TI DANUM TI BAGYO (STORM DRAIN INLET)

Protektaran ti storm drain inlets, aglalo dagiti adda iti uneg ti 50 feet iti site ti proyektom.

Sakbay ti panagbagyo, ikkaten ti proteksyon nga storm drain inlet tapno maliklikan ti pannakalayus; i-reinstall to kalpasanna.

DAGITI STORM DRAIN ITI IGID



- Iplastar a naimbag ti biosock iti igid ti storm drain tapno saan nga makalusot ti danum.



- Isigurado dagiti murdong ti kastoy a klase ti aksyon a pangproteksyon.



- Isigurado ken mentenaren ti aksyon a pangproteksyon ti storm drain tapno maliklikan ti panagpalya.
- Masansan nga i-check ti kinaepektibo.

DAGITI STORM GRATING INLET



- Isigurado ti silt fabric iti babaen ti grate.



- Isigurado ti silt fabric iti aglawlaw ti grate.

BMP KEN PANNAKAMENTENAR TI SITE

Masapul dagiti proyekto ti Kategoriya 1A ken 1B dagiti inspeksyon iti espesipiko nga interval kas naituding kadagiti pagalagadan ti Siyudad. Ti saan a pannakaaramid dagiti kasapulan nga inspeksyon ket mabalin a pakamultaan ken pakadusaan. Masapul dagiti Proyekto a Kategoriya 1A ken 1B dagiti sumaganad a kababaan a bilang ti inspeksyon nga aramiden ti nadesignaran a Tagakoordina ti Plano a Panangkontrol iti Panagreggaay ken Arinsaed (Erosion and Sediment Control Plan, ESCP):

- **Inspeksyon Sakbay-ti-Konstraksyon:** Masapul a maaramid daytoy nga inspeksyon sakbay a mangrugi ti trabaho iti proyekto tapno masinonoo nga isuamin nga aksyon a pangproteksyon a nailadawan iti ESCP ket na-install nga apag-iso ken guman-gana a naimbag.
- **Dagiti Inspeksyon Kabayatan ti Konstraksyon:** Maaramid kuma ti inspeksyon iti maminsan tunggal 30 nga aldaw. Para kadagiti proyekto a maileppas iti nababbaba ngem 30 nga aldaw, maaramid kuma ti inspeksyon iit katengngaan ti proyekto.
- **Inspeksyon Kalpasan-ti-Konstraksyon:** Maaramid kuma daytoy nga inspeksyon iti pannakalpas ti proyekto tapno makumpirmaran nga isuamin a nasinga a lugar ket na-stabilize ken naikkat amin a temporaryo nga aksyon a pangproteksyon (kas pagarigan proteksyon ti alad ti silt inlet, kdpy.) Masapul ti panangisubmitar iti report ti inspeksyon ken permanente nga estabilisasyon tapno maiserra ti building permit.

Usaren ti Appendix C dagiti Pagalagadan a Mainaig iti Kalidad ti Danum para kadagiti report ti inspeksyon. Naipakita ti pagarigan iti seksyon a Dagiti Inspeksyon ti buklet.

KABAYATAN TI PANAGMENTENAR

- Kabayatan dagiti inspeksyon, i-check a dagiti aksyon a pangproteksyon/BMPs ket umiso ti pannaka-install na.
 - Nakapirmi dagiti alad ti silt ken nag-overlap a naimbag.
 - Dagiti biosocks ket naka-J-hook iti ayos ti danum ken/wenno naka-overlap iti saan a nababbaba ngem 6 inches.
 - Nakaluban ken nakasigurado dagiti stockpile.
- No saan a gumangana a naimbag ti na-install a BMP, mabalin a masapul ti mangi-install ti nayon a BMP.
- No nadadael ti BMP, tarimaanen wenno sukatan daytoy.
- I-install manen ken isigurado dagiti alad ti silt wenno dagiti sabali nga aytem a natumba.



PANANGKONTROL ITI TAPOK

PAGSIBOG A DANUM

- Mabalín nga usaren ti danum tapno malappedan ti rugit nga maipayagso iti ruar ti site.
- Nasken ti kaadu: agusar ti umanay a danum tapno mapagtalinaed ti daga iti dissona – ken saan unay nga adu tapno saan a makarugit ken rumuar ti danum iti site wenno dumket kadagiti dalig ti lugan. Ti sapaap a pagalagadan ket awan ti agpilaw-pilaw wenno agayus.
- Sibugan iti danum a kanayon.



DAGITI VERTICAL A BARRIER TI TAPOK



- Dagiti vertical a barrier ti tapok ket lappedanna ti rugit a rumuar iti site ken protektaranna dagiti kaabay a lote manipud iti tapok ken basura. Palagip: Ti alad ti tapok ket saan a mabalín nga usaren nga alad ti silt.
- Usaren dagiti vertical dust barrier no adda nangangato nga angin ken kadagiti site nga adda napasdok nga slope na.

MULCH

Mulch (kayo wenno graba), saan a nababbaba ngem 1 inch ti kauneg, mabalín pay nga usaren tapno makontrol ti tapok iti site.

PANNAKAMANEHAR TI BASURA TI KONKRETO (CONCRETE WASTE MANAGEMENT)



- Mabalín nga usaren a pagkiwaran iti konkreto ti pool ti ubing. Kalubán ti pagugas a danum iti panagpaplanto wenno sakbay nga agtudo. Ikkaten ti kalubna kabayatan nga agub-ubra iti site tapno makapag-evaporate daytoy. Ikkaten ti pagugas a danum ken ibelleng iti ruar ti site.



- Agikabil iti liner kadagiti konkreto a container tapno maala dagiti parsyak ken lippias.
- Mabalín a managpartuat dagiti solusyon ken marukod para iti kaadu ti pagugas a danum.



- Ugasan dagiti ima, butas ken tools iti pagugasan a container wenno iti dakkell a timba ken ibelleng a nasayaat iti ruar ti site.
- Mabalín pay nga ugasan iti ruar ti site ti tools ken dagiti suplay.



- Saan nga ihalo wenno ugasan ti konkreto iti sidewalk wenno kalsada
- Ti panangugas iti konkreto, pinta ken sabali pay nga ugasan iti danum iti storm drain ket maysa a panagsalungasing ken adda multana.
- Saan a palubusan ti nagalis a direkta a maibuyat iti daga.

PANNAKAIMANEHAR TI STOCKPILE

Liklikan a mapan iti storm drain dagiti materyales ti stockpile. Kaluban dagiti stockpile a saan a mausar iti makalawas.



- Idulin dagiti materyales iti sanikua.
- Idulin nga adayo kadagiti drainage inlet.
- No mabalin idulin ti stockpiles nga adayo kadagiti igid ti sanikua.
- Liklikan a kaluban dagiti yutilidad a kas kadagiti gripo, paglinis, electrical boxes, kdpv.



- Dagiti pagkalub ket mabalin a burlap, silt fabric/screen ti tapok wenno plastik.
- Isigurado dagiti kalub tapno maprotektaran manipud iti tudo ken napigsa nga angin.



- Iyadayo ti stockpiles manipud iti storm drain inlets ken driveways nga ag-slope iti kalsada ken storm drain inlets.
- Saan nga ipalubos a maiwaras iti kalsada ti stockpiles. Problema iti polusyon ken pagpeggadan ti kinatalged ti maiwaras a materyal.

KONTROL TI PANANG-TRACK TI LUGAN (VEHICLE TRACKING CONTROL)

Mabalin a ti rumuar a lugan iti site ket makaitugot wenno agiwaras kadagiti rugit iti kalsada a mabalin pay a maiyanud kadagiti storm drain.

NAILATANG A LUGAR TI LUGAN

- Ingetan ti trapiko ti lugan iti nailatang a lugar iti sanikua imbes a palubusan dagiti lugan iti isuamin a paset ti site.
- Usaren ti dati a napatag a lugar wenno manggabur iti dalan ti lugan no mabalin.

LUGAR A PAGUGASAN ITI DALIG

- Ugasan dagiti dalig iti lugar ti graba ti site tapno ikkaten ti rugit sakbay a rumuar.



GRABA KEN FABRIC ITI PAGSERKAN TI SITE

Makatulong ti graba a mangikkat kadagiti rugit ti goma ti lugan ken ibatina dagitoy kadagiti babaet ti graba.



- Agusar iti graba iti pagserkan ti site tapno maikkat ti rugit kadagiti dalig ti lugan sakbay a rumuar iti site ti proyekto.
- Agusar iti 8-12 inches ti No. 2 (wenno No. 2 ken 4) a graba iti pagserkan/pagruaran iti site.
- Mangikabil iti silt fabric iti babaen ti graba tapno masagat ti danum.
- Masansan a kiwaren ti graba tapno agpababa dagiti babbabassit nga arinsaed ken mawayaan ti espasyo para iti rugit manipud kadagiti dalig ti lugan.

KAYKAYAN DAGITI RUGIT ITI KALSADA



- Ti panagusar iti BMP ket ikkatenna ti kaaduan ngem saan nga isuamin a rugit iti kalsada. Masapul met lang ti panagkaykay.
- Saan nga ugasan ti rugit iti kalsada wenno storm drain inlets.

PANNAKAI-DELIVER DAGITI MATERYALES, PANNAKAIDULIN KEN PANNAKAIMANEHAR TI PANNAKAUSAR

Liklikan ti umiso a pannakaidulin ti materyal ti pannakaiwara ti produkto a mapan iti daga ken pannakaanud a maikuyog iti danum ti tudo.

- Pabassiten ti panagidulin iti makadadael a materyales iti site.
- Saan nga idulin dagiti materyales iti asideg ti storm drain system wenno pagayusan ti danum.
- Idulin dagiti materyales iti nailatang a lugar ken ag-install iti secondary containment.
- Pagtalinaeden a nakakalub ti materyales wenno iti sirok ti adda atepna.
- Mabalín nga aramiden iti site ti kayo a kahon ken malayningan iti plastic; masapul a malinungan wenno makaluban iti plastic tapno saan a makargaan iti danum.



Palagip: Mapagtalinaed ti naannad a panagidulin a saan nga aglati ti material containers ken mapagtalinaed ti kalidad ti produkto.

PANANGLIKLIK KEN PANANGKONTROL ITI PANAGLUPYAS

- Masapul nga adda latta ti spill kit iti lugan wenno iti asideg.
- Masapul nga ammo dagiti trabahador ti ayan ti spill kit ken no kasano nga usaren daytoy.
- Mabalín nga usaren ti kitty litter para kadagiti ubo. Kalpasan ti panagusar, masapul a madalusan ken maibelleng a naimbag.

PANNAKAIMANEHAR TI SOLIDO A BASURA (SOLID WASTE MANAGEMENT)

PAGTALINAEDEN A NADALUS TI SITE

- Agpidut iti site nga inaldaw, ken saan a baybay-an a maipaypayagso dagiti basura.
- Mangiplastar iti nailatang a lugar ti pagkolektaan iti basura para iti solido a basura, konstraksyon ken basura ti demolisyon.

IMANEHAR DAGITI PAGKARGAAN ITI BASURA

- I-iskedyul ti regulr a panagkolekta iti basura; saan nga ipalubos nga aglepleppias ti pagkargaan iti basura.
- Masapul nga adda iti sanikua ti pagkargaan iti basura/pagbasuraan, no mabalin. No ti pagkargaan iti basura ket maipan iti kalsada, masapul ti permit iti panangusar ti kalsada (street usage permit) (<http://bit.ly/2kLeEu9>).
- Kaluban ti basura tapno maliklikan ti pannakailaok ti basura iti danum ken panagayus iti storm drain system.
- Saan nga agusar kadagiti agubo a pagkargaan iti basura; tarimaanen wenno sukatan.

DAGITI PORTABLE A KASILYAS

Ti panangioplastar kadagiti portable a kasilyas ket liklikanna ti posible a panagubo iti storm drain system.



- Dagiti strap ken bloke ti CMU, pasok, wenno bag ti darat ket mabalin nga usaren tapno masigurado dagiti portable a kasilyas. (Nadagdagsen dagiti dua ti tangkena a portable a kasilyas ken nasigsigurado ngem ti maymaysa ti tangkena.)
- Ikabil dagiti portable a kasilyas iti adayo manipud kadagiti storm drain.
- I-iskedyul ti regular a pannaka-service tapno maliklikan ti panagleppias ken panagubo.

PANNAKAKIMANEHAR TI LIKIDO A BASURA (LIQUID WASTE MANAGEMENT)

- Urnungen dagiti langis, petrolyo, lubricants, solvents ti pinta, ken glue iti timba nga addaan lid wenno portable a tangke ken ibelleng iti ruar ti site.
- Para iti latex paint dalusan, ti 5-gallon a timba nga addaan lid ken danum ket mabalin nga usaren. Mabalin nga iruar iti site ti nagugasan a danum tapno maibelleng babaen iti sanitary sewer.
- Ti drywall taping ken mud ket masapul a maikarga iti kahon (kayo a kahon nga adda lining na a plastic) ken kalpasanna, kalpasaan a tumangken, ket mabalin nga ibellengen iti pagbasuraan. Saan nga ipan ti drywall mud kadagiti pagubuan ti danum ta tumangken daytoy ken makasullat kadagiti tubo.
- Ag-refer pay iti Napeggad a Pannakamanehar ti Basura a BMP (Hazardous Waste Management BMPs).

PANNAKADALUS, PANANGGASOLINA KEN PANNAKAMENTENAR TI LUGAN KEN EQUIPMENT



- Agusar kadagiti pan wenna plastik kadagiti equipment tapno mataya ti langis ken agubo a gas.
- Agusar iti biosocks iti lawlaw ti equipment a nakaparking iti kalsada.
- Punasan dagiti lugan imbes a washingan iti site.
- Liklikan a mapan iti storm drain ti langis.
- Ti panangibelleng iti langis iti storm drain ket panagsalungasing ken adda multana.

PANNAKAIMANEHAR TI NAPEGGAD A BASURA (HAZARDOUS WASTE MANAGEMENT)

Liklikan a makastrek iti storm water ti napeggad a basura babaen iti umiso a panagusar iti materyal ken panagibelleng iti basura.

- Para kadagiti latex a pinta: Pamagaan ken ibelleng iti lata a pagyanan ti basura wenna pagbasuraan. Sukatan ti lid sakbay nga ibelleng wenna idulin.
- Para kadagiti oil-based a pinta: Agusar iti oil change kit wenna sabali nga absorbent ken bag sakbay nga ipan iti pagyanan ti basura.
- Ibelleng ti awan kargana a pestisidyo, napeggad a basura wenna nagyanan ti pinta iti basuraan.
- Ag-refer iti Safety Data Sheet (SDS) para iti ad-adu nga impormasyon iti umiso a panangasikaso ken panagibelleng.
- Para iti ad-adu nga impormasyon mapan iti www.opala.org

PANNAKAIMANEHAR TI NAKONTAMINARAN A DAGA (CONTAMINATED SOIL MANAGEMENT)

No adda posible a nakontaminaran a daga, kaluban ti stockpile iti plastic wenna tarps ken ag-install iti berm iti lawlawna tapno maliklikan ti panagayus. Ikkaten ti daga iti site ken ibelleng a nasayaat.

No nakontaminaran ken napeggad ti daga, makipagtrabaho iti Sangay ti Department of Health Solid and Hazardous Waste ti Estado tapno mangbukel kadagiti opsyon para iti pannakatratar ken/wenna pannakaibelleng.

DIAGRAM TI SITE

Masapul nga iramanmo dagiti sumaganad nga aytem iti diagram ti site mo:

Pagpatinggaan ti Sanikua

I-drawing mo ti pagpatinggaan ti sanikua (kitaen ti kahon iti baba).

Dagiti Dati a Pasdek

I-drawing ti outline dagiti dati a pasdek (kitaen ti kahon iti baba).

Dagiti Storm Drain

Markaan dagiti storm drain iti uneg ti 50 feet ti site ti proyekto. Mabalin nga ipakita daytoy babaen iti arrow ken markaan ti distansya manipud iti site ti proyekto.

Masapul ti tulong a mangsapul kadagiti storm drain iti asideg? Mapan iti: honolulu.org tapno masarakan dagiti catch basin ken dagiti grate/drain inlet.

Dagiti Limit ti Trabaho

Mangi-drawing iti "ulep" (kitaen ti legend) ti lawlaw ti naplano a lugar ti trabaho.

Ayos ti Danum

Agusar kadagiti agal-allon nga arrow tapno ipakita to ayos ti danum. Ayos ti danum nga agpapababa iti turod/slope.


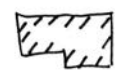
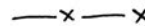

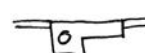


Dagiti Aksyon a Pangproteksyon/BMPs

Markaan dagiti aksyon a pangproteksyon (maaw-awagan pay a Best Management Practices wenno BMPs) tapno mausar iti diagram. Masapul a masabet dagitoy ti tipo ken kadakkel ti proyekto tapno malappedadn ti iruruar ti rugit ken sabali a basura iti site.

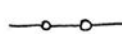




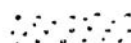
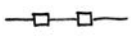


Daytoy a legend ket itedna dagiti simbolo a mausar iti Diagram ti Site. Mabalin nga ipasurot ti legend iti Diagram ti Site wenno dagiti label a nausar iti mapa.

Legend ti Diagram ti Site

Dagiti Kondisyon ti Site

	Pagpatinggaan ti Sanikua
	(Dagiti) Dati a Pasdek
	Alad (Fence)
	Dagiti Limit ti Trabaho
	Catch Basin/Inlet ti Storm Drain
	Flat Inlet ti Storm Drain
	Direksyon ti Ayos ti Danum

Dagiti Aksyon a Pangproteksyon (wenno BMPs)

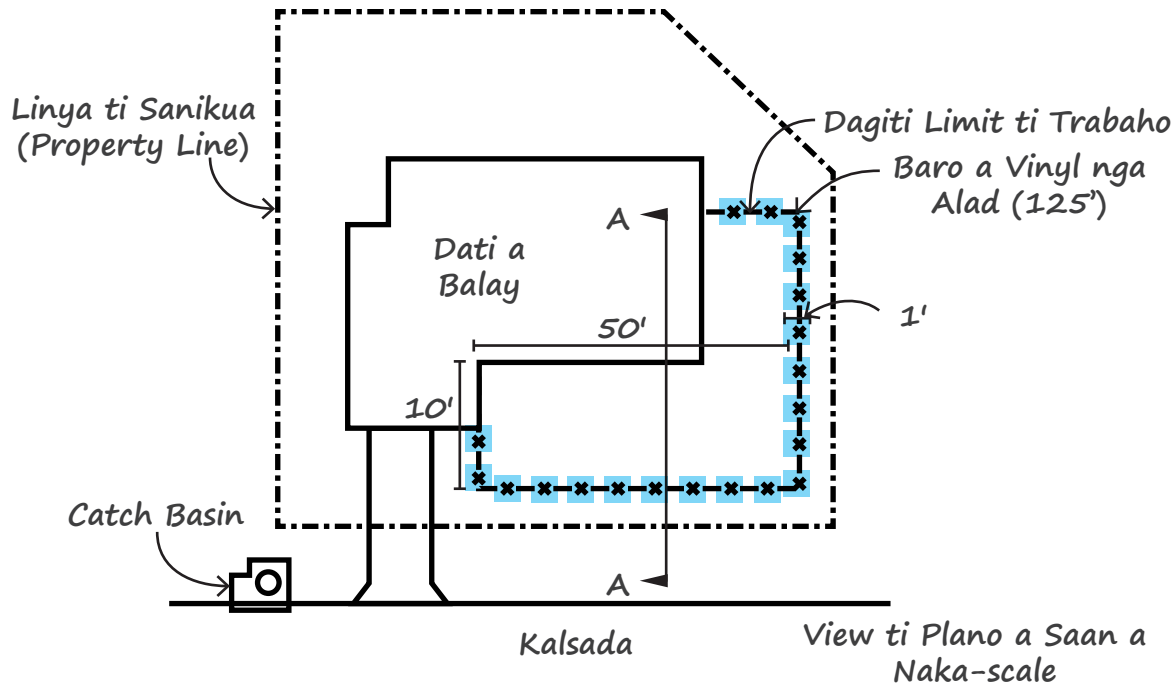
	Alad ti Silt
	Biosock
	Dagiti Bag ti Darat/Graba
	Proteksyon ti Catch Basins/ Drain
	Mula
	Matting wenno Plastik a Kalub
	Hydraulic Mulch/ Hydroseeding
	Alad ti Tapok
	Graba
	Pagserkan/Pagruaran ti Na-stabilize a Konstrakyon

MASAPUL TI AD-ADU PAY NGA IMPORMASYON ITI PAGPATINGGAAN TI SANIKUA KEN DAGITI DATI A PASDEK?

Mapan iti Honolulu RealProperty website (www.qpublic.net/hi/honolulu) ken ag-search iti tunggal address.

- Para iti impormasyon ti Pagpatinggaan ti Sanikua: I-click ti GIS Parcel Map. Agparang ti outline ti sanikua iti aerial a mapa. Usaren ti tool a pagsukat iti ngato ti panid (i-click iti pangrugian ken pagpatinggaan ti linya).
- Para iti Impormasyon ti Dati a Pasdek: I-click ti Ipakita ti Sketch ti Pasdek para iti shape ti pasdek ken dagiti rukodna.

PANNAKAADAL TI KASO (CASE STUDY) 1: ALAD A VINYL (BASSIT A PANAGDEBELOP)

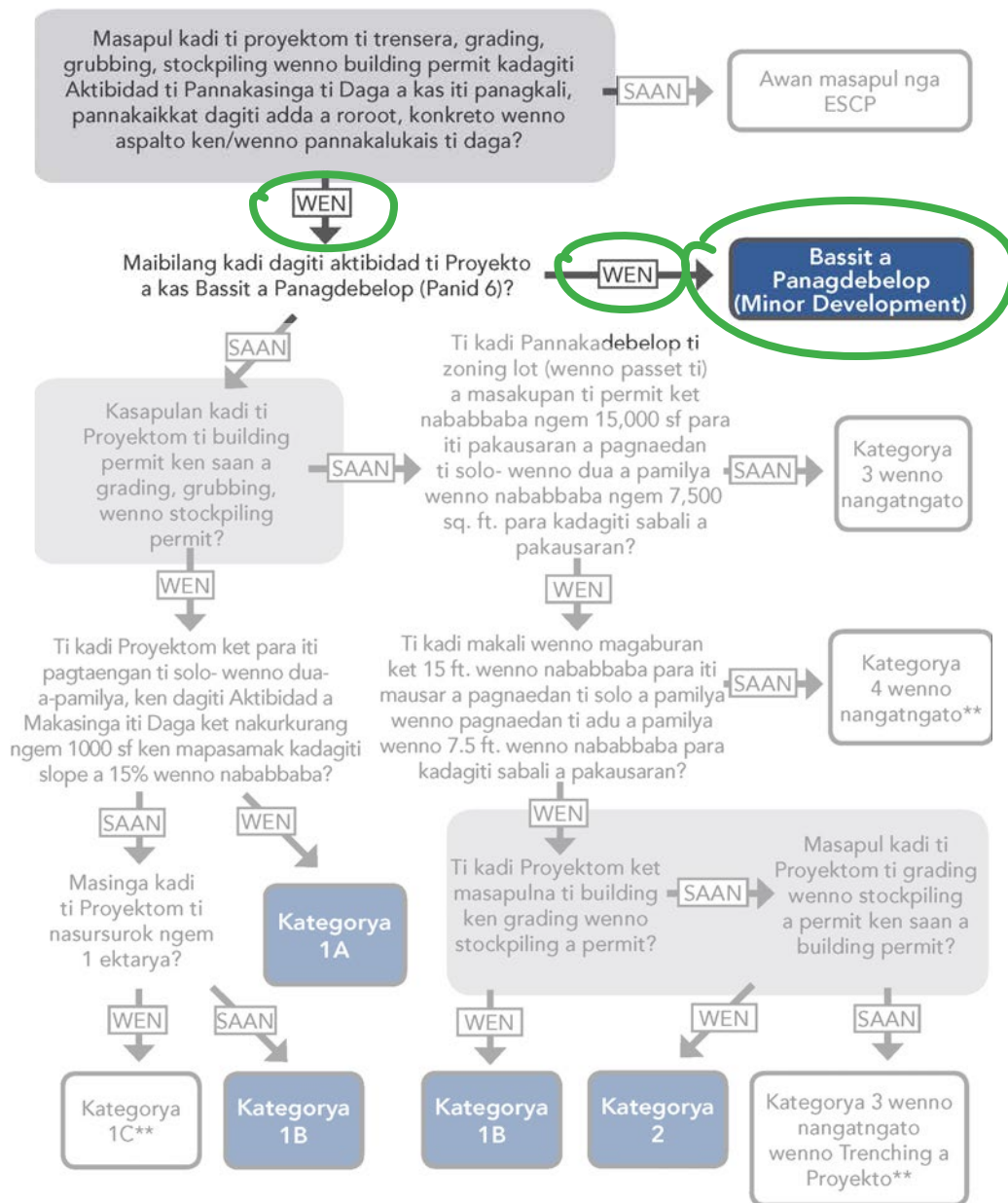


NASINGA A LUGAR (DISTURBED AREA)

Lugar ti Vinyl = 20 poste ti alad x (1' x 1')
nga Alad = 20 sq. ft.

Kabuklan ti Nasinga a Lugar = 20 Square Feet

PANNAKAADAL TI KASO (CASE STUDY) 1: ALAD A VINYL (BASSIT A PANAGDEBELOP)



DAGITI KASAPULAN TI PROYEKTO

- Building permit para iti vinyl nga alad a mausar a pagnaedan ti solo a pamilya wanno dua a pamilya
- Sertipikasyon ti Bassit a Panagdebelop (Minor Development)

PANNAKAADAL TI KASO (CASE STUDY) 1: ALAD A VINYL (BASSIT A PANAGDEBELOP)

MINOR DEVELOPMENT CERTIFICATION

Construction Site Project Name: Vinyl Fence

Physical Site Address: 1234 O'ahu St.

Building Permit Application Number: #12345678

1. I certify that the total project scope falls under the Minor Development category checked below.

Check one:

- The installation of temporary BMPs;
- Land Disturbing Activity that takes place completely under a roof or other enclosure and where existing site conditions preclude storm water run-on to the Disturbed Area;
- The construction of individual bus shelters;
- The installation of footings or posts for the construction of fences, decks, roof coverings, and trellises for single-family or two-family dwelling use;
- Trenching project that takes place in the City right-of-way for laterals serving one property;
- Borings;
- Work not listed above that disturbs no greater than 120 square feet of land, except for fence wall, retaining wall, and driveway apron projects.

Disturbed Area (square-feet)*: = 20 sq. ft.

*Disturbed area includes the project area, construction access on unpaved surfaces, and storage/ staging area(s).

Describe the project and all land disturbing activities (Required):

A new vinyl fence with posts.

2. I am aware that there are significant penalties for submitting false information, including the possibility of fine for knowing violations. I am also aware that any person violating the provisions of the Rules Relating to Water Quality may be ordered to pay an administrative or civil penalty of not less than \$1,000.00 nor more than \$25,000.00 per violation per day.

3. Upon inspection, if there are land disturbing activities which are not considered Minor Development or the site is found in noncompliance with the Rules Relating to Water Quality, enforcement actions require that my project is recategorized to require an ESCP. Work may be stopped until the ESCP is approved and an ESCP Coordinator is designated for the project.

John Smith

Owner / Authorized Agent Name*

(*Provide Letter Designating Authorized Agent Form if Different from owner)

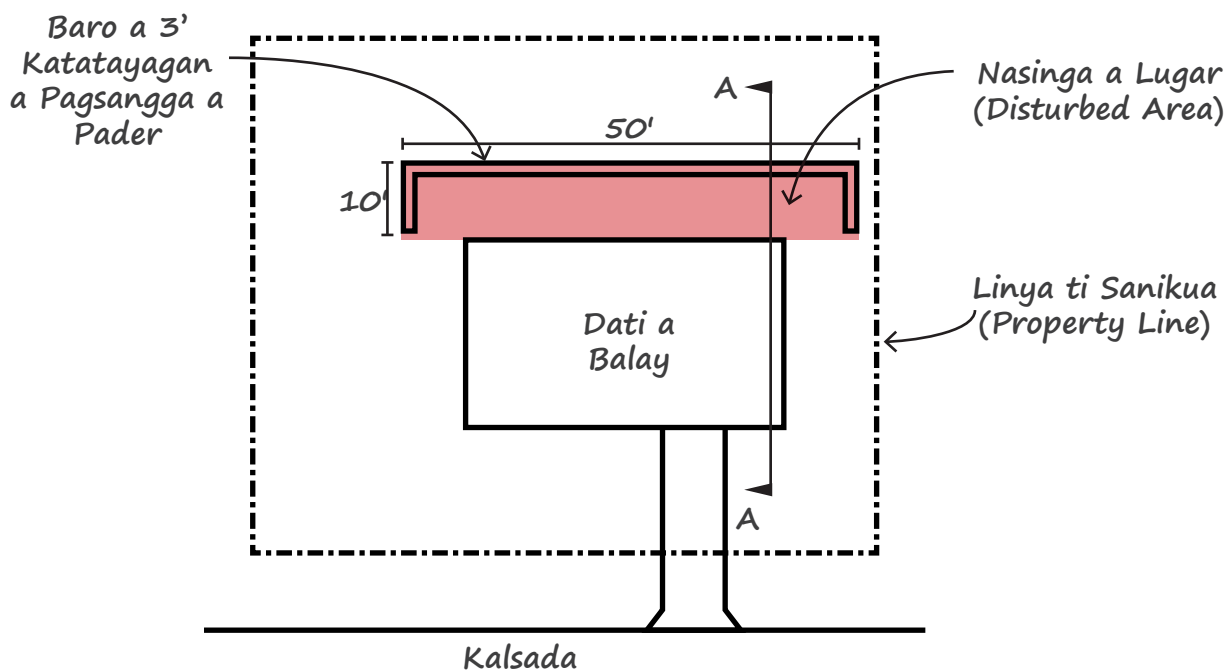
John Smith

Signature

4/4/2019

Date

PANNAKAADAL TI KASO (CASE STUDY) 2: BARO A PANGSANGGA A PADER (RETAINING WALL) (KATEGORIA 1A)



View ti Plano a Saan a Naka-scale

NASINGA A LUGAR (DISTURBED AREA)

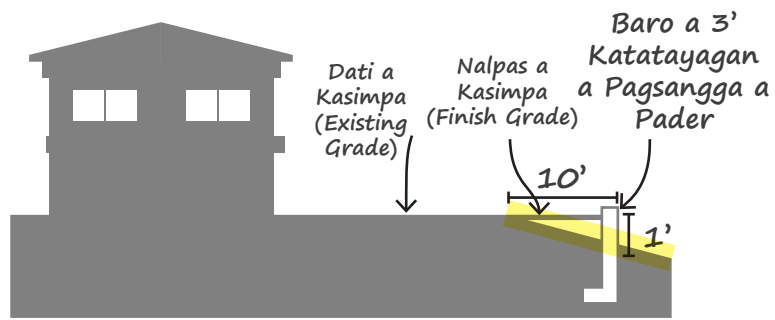
Pagsangga a Pader = 10' x 50'
ken Fill Area = 500 sq. ft.

Dagup ti Nasinga a Lugar
= 500 Kuadrado a Kadapan
(Square Feet)

SAKLAW

Ti elevation change lugar ti proyekto ket 1' iti horizontal a distansya a 10'.

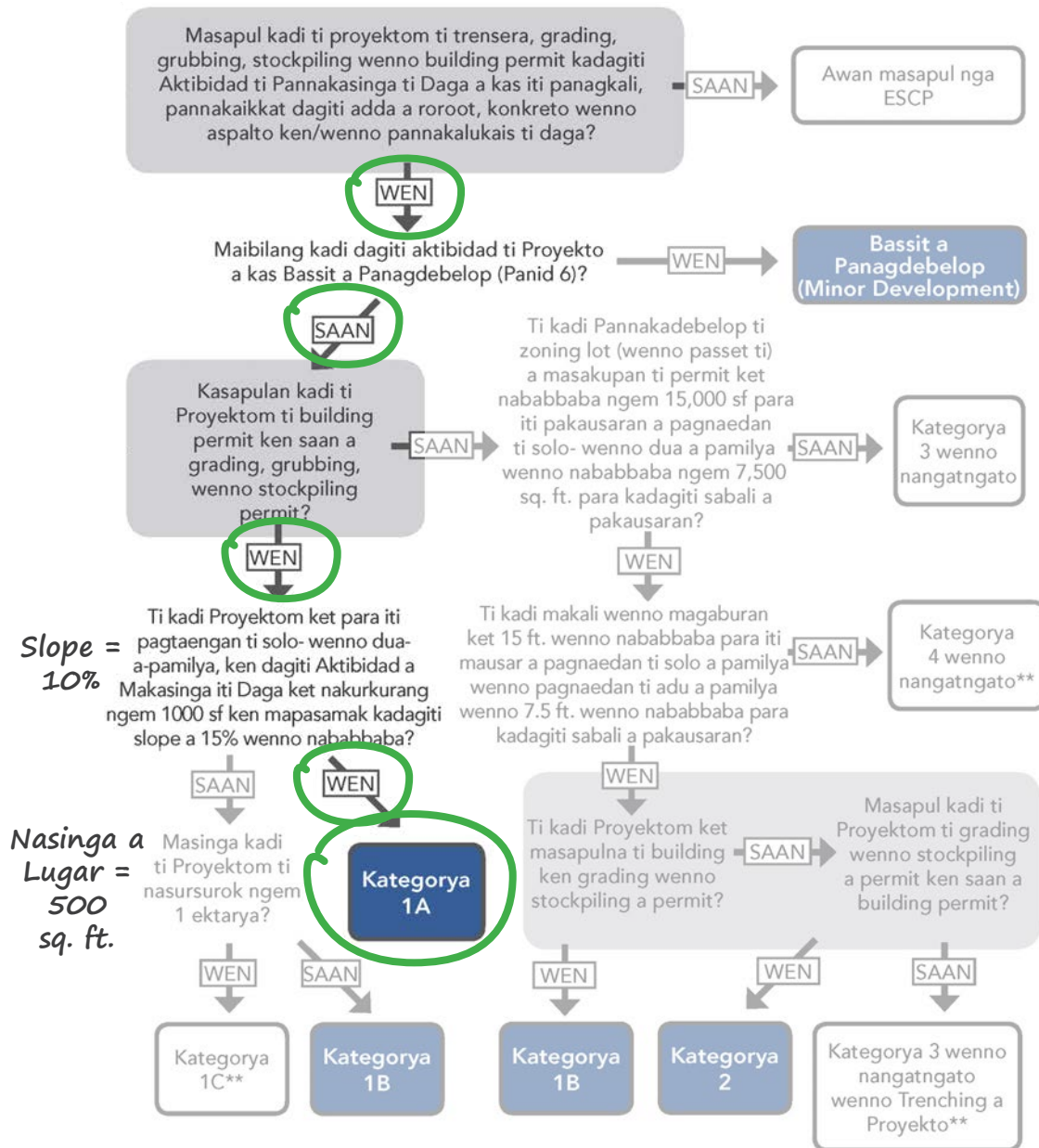
$$\% \text{ Slope} = (1' \div 10') \times 100 = 10\%$$



Seksyon A-A

View ti Plano a Saan a Naka-scale

PANNAKAADAL TI KASO (CASE STUDY) 2: BARO A PANGSANGGA A PADER (RETAINING WALL) (KATEGORYA 1 A)



DAGITI KASAPULAN TI PROYEKTO

- Building permit para iti baro a pangsangga a pader a mausar a pagnaedan ti solo a pamilya wenno dua a pamilya
- Plano a Panangkontrol iti Panagreggaay ken Arinsaed (Erosion and Sediment Control Plan) (Kategorya 1A)

PANNAKAADAL TI KASO (CASE STUDY) 2: BARO A PANGSANGGA A PADER (KATEGORIA 1A)

Appendix B



City and County of Honolulu

Erosion and Sediment Control Plan Small Project Template
for Categories 1A, 1B and 2

Construction Site Project Name: **Mr. Smith's New Retaining Wall**

Physical Site Address: **1234 O'ahu Street**

Building Permit Application Number: **2018-00-0000**

Disturbed Area (square-feet)*: **500 sq. ft.**

*Disturbed area includes the project area, construction access on unpaved surfaces, and storage/ staging area(s).

Instructions:

Use this template to prepare an Erosion and Sediment Control Plan (ESCP) for projects under the City and County of Honolulu, Department of Planning and Permitting (DPP) Categories 1A, 1B, and 2. This ESCP may be prepared and must be signed by the property owner or an authorized agent designated by the owner. Submit a completed ESCP with the building permit application and keep a copy of the approved ESCP on the job site at all times. Any changes to the approved ESCP must be approved by the DPP.

Refer to the guidance booklet "How to Prepare Erosion and Sediment Control Plan for Small Construction Projects" available on DPP's website @ www.honolulu.dpp.org for more information on each BMP below. Select the BMPs which will be used at the site and if not used, provide a brief explanation for why it is not needed or impracticable for the site.

Designate a certified ESCP coordinator for the project by providing the information on page 6 of this template or sending written notice to DPP (the form is available on DPP's website). The ESCP coordinator is responsible for performing inspections before construction starts and at least once every 30 days until permanent stabilization is in place.

I. EROSION PREVENTION BMPs: practices that prevent erosion from occurring.	
1. Permanent Stabilization (REQUIRED)	
Prior to closing of any permit(s) permanent stabilization must be in place which includes the following requirements:	
<ul style="list-style-type: none"> All exposed disturbed areas must be permanently stabilized with ground covering such as vegetation, gravel, or pavers; Rain gutters, downspouts, and channelized flows must be installed and functioning as designed; In seeded areas, grass or vegetation must cover at least 90 percent of the disturbed soils or must be temporary stabilized while it is growing; Temporary measures, such as sediment barriers, should be removed when permanent measures are in place; All paved surfaces must be clean; and Storm drain inlet filters must be removed after all cleanup activities have been completed. 	
2. Slope Management and Protection (Category 1B and 2 only)	
Areas disturbed on a slope greater than 15% must be protected when work is inactive for seven (7) days or more.	
	<p>To find the slope, divide the vertical height of your slope by the horizontal length of your slope and multiply by 100. For example, if your slope measures 3 feet vertically, and 10 feet horizontally, your slope would be $3 / 10 \times 100 = 30\%$.</p>
	Check if will be used:
1. Rolled erosion control products	<input type="checkbox"/>
2. Hydraulic mulch or hydroseed	<input type="checkbox"/>
3. Hydraulic or bonded fiber matrix	<input type="checkbox"/>
4. Planting and/ or vegetation providing at least 70% surface cover	<input type="checkbox"/>
5. Other: (please specify)	<input type="checkbox"/>
	<input checked="" type="checkbox"/> Will Not Use
If this BMP will not be used, provide brief explanation:	
<i>Not required for Category 1A projects.</i>	

PANNAKAADAL TI KASO (CASE STUDY) 2: BARO A PANGSANGGA A PADER (RETAINING WALL) (KATEGORIYA 1A)

Appendix B

3. Temporary Stabilization (Category 1B and 2 only)	
Use one or more of the following to protect disturbed areas that will not be worked on within 14 days:	Check if will be used:
1. Rolled erosion control products	<input type="checkbox"/>
2. Hydraulic mulch or hydroseed	<input type="checkbox"/>
3. Hydraulic or bonded fiber matrix	<input type="checkbox"/>
4. Planting and/or vegetation providing at least 70% surface cover	<input type="checkbox"/>
5. Other: (please specify)	<input type="checkbox"/>
	<input checked="" type="checkbox"/> Will Not Use
If this BMP will not be used, provide brief explanation: <i>Not required for Category 1A projects.</i>	
II. SEDIMENT CONTROL BMPs: practices to prevent soil and sediment from leaving the project site and entering storm drains during rain events.	
1. Perimeter Controls	
Sediment fences or barriers shall be used at the perimeter of all disturbed areas where there is potential for runoff to flow off the project site. Barriers may include gravel bags, sand bags, fiber rolls, silt fences, compost socks, or an equivalent BMP that intercepts runoff.	<input checked="" type="checkbox"/> Will Use <input type="checkbox"/> Will Not Use
If this BMP will not be used, provide brief explanation:	
2. Storm Drain Inlet Protection	
Inlet protection is required over storm drains that may receive runoff from your site unless those inlets drain to a sediment basin or trap. Inlet protection should be removed during severe storm events to prevent flooding.	<input checked="" type="checkbox"/> Will Use <input type="checkbox"/> Will Not Use
If this BMP will not be used, provide brief explanation:	
III. GOOD HOUSEKEEPING BMPs: practices that prevent pollution by limiting or reducing potential pollutants at their source.	
1. BMP and Site Maintenance (REQUIRED)	
Regularly inspect and maintain BMPs to ensure continued performance.	
2. Dust Control	
Use one of the following to control dust:	Check if will be used:
1. Mulching to a depth of one inch or more	<input type="checkbox"/>
2. Sprinkling exposed soils with water to maintain moistness	<input checked="" type="checkbox"/>
3. Vertical dust barriers	<input type="checkbox"/>
	<input type="checkbox"/> Will Not Use
If this BMP will not be used, provide brief explanation:	
3. Concrete Waste Management	
Conduct washout off-site or perform onsite in a designated area, away from water bodies, channels, or storm drains. Construct and maintain washout to contain all liquid and concrete waste generated.	<input checked="" type="checkbox"/> Will Use <input type="checkbox"/> Will Not Use
If this BMP will not be used, provide brief explanation:	
4. Stockpile Management	
Locate stockpiles away from drainage ways or other areas of concentrated flows. Use a barrier around stockpiles and cover if they will not be actively used within seven (7) days.	<input checked="" type="checkbox"/> Will Use <input type="checkbox"/> Will Not Use
If this BMP will not be used, provide brief explanation:	
5. Vehicle Tracking Control	
Restrict vehicle traffic to properly designated areas and remove sediment from vehicle tires prior to exiting the project site. All sediments that are tracked or discharged off-site must be swept or vacuumed at the end of each day.	<input checked="" type="checkbox"/> Will Use <input type="checkbox"/> Will Not Use
If this BMP will not be used, provide brief explanation:	

PANNAKAADAL TI KASO (CASE STUDY) 2: BARO A PANGSANGGA A PADER (RETAINING WALL) (KATEGORIA 1A)

Appendix B

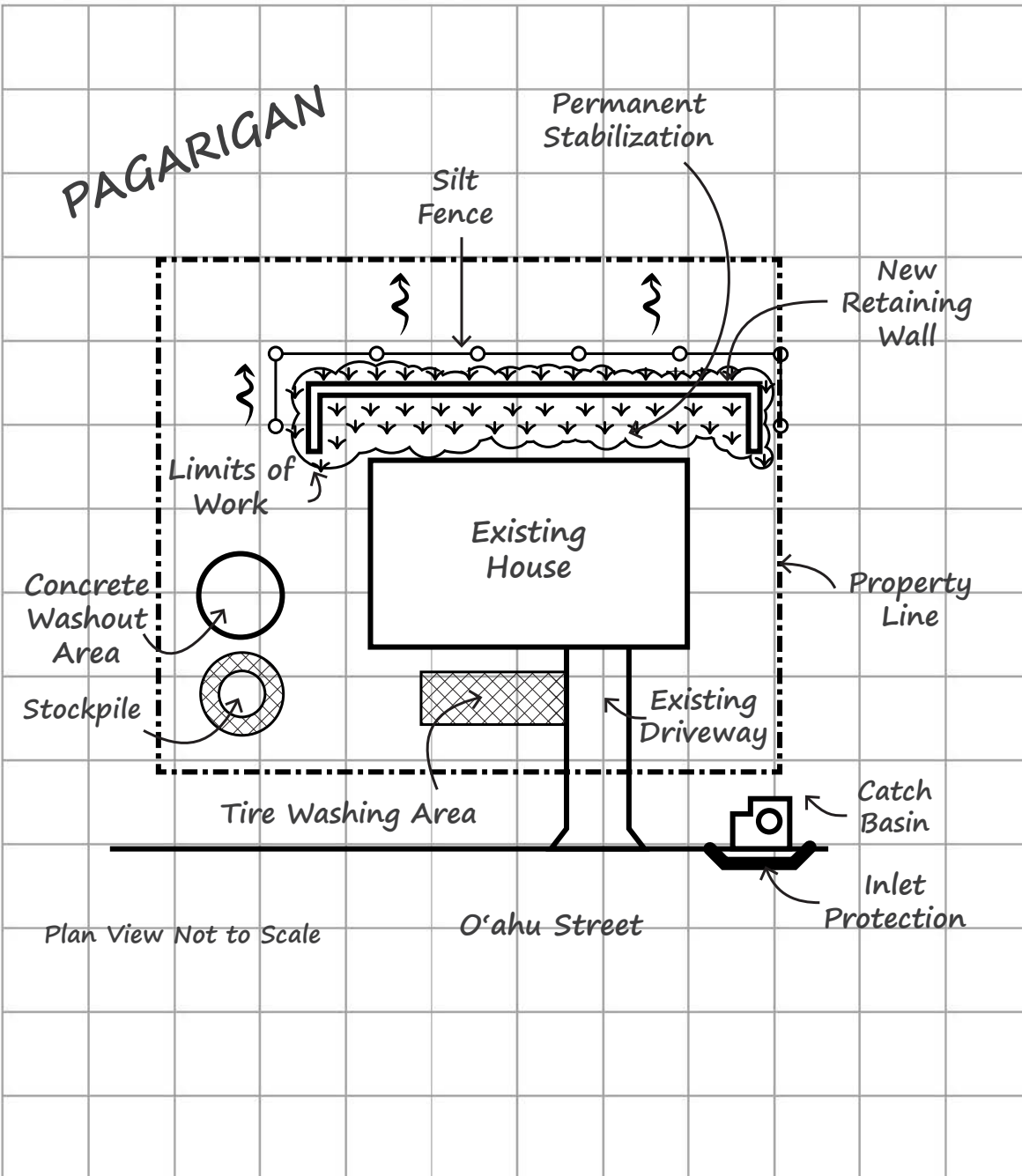
6. Material Delivery, Storage and Use Management	
Minimize the storage of potential pollutants onsite, store materials in a designated area, and install secondary containment. Do not store materials in buffer areas, near areas of concentrated flow, or areas abutting the City storm drainage system, receiving waters, or drainage improvements that discharge off-site.	<input checked="" type="checkbox"/> Will Use <input type="checkbox"/> Will Not Use
If this BMP will not be used, provide brief explanation:	
7. Spill Prevention and Control	
Keep ample supply of cleanup materials onsite. Clean up spills immediately, using dry clean-up methods where possible, and dispose of used materials properly.	<input checked="" type="checkbox"/> Will Use <input type="checkbox"/> Will Not Use
If this BMP will not be used, provide brief explanation:	
8. Solid Waste Management	
Provide designated waste collection areas for solid waste or construction and demolition waste, collect trash daily, and dispose at authorized disposal areas.	<input checked="" type="checkbox"/> Will Use <input type="checkbox"/> Will Not Use
If this BMP will not be used, provide brief explanation:	
9. Portable Toilets (Sanitary/ Septic Waste Management)	
Temporary and portable sanitary and septic waste systems shall be mounted or staked in, well-maintained and scheduled for regular waste disposal and servicing.	<input type="checkbox"/> Will Use <input checked="" type="checkbox"/> Will Not Use
If this BMP will not be used, provide brief explanation:	
<i>Will not have portable toilets.</i>	
10. Liquid Waste Management BMPs	
Contain liquid wastes in a holding pit, sediment basin, roll-off bin, or portable tank of sufficient volume to contain the liquid wastes generated.	<input type="checkbox"/> Will Use <input checked="" type="checkbox"/> Will Not Use
If this BMP will not be used, provide brief explanation:	
<i>Will not generate liquid waste.</i>	
11. Vehicle and Equipment Cleaning, Fueling, and Maintenance	
Prevent pollutants in storm water from vehicle and equipment cleaning, fueling and maintenance by using off-site facilities when feasible, performing work in designated areas only, using spill pads under vehicles and equipment, checking for leaks and spills, and containing and cleaning up spills immediately.	<input checked="" type="checkbox"/> Will Use <input type="checkbox"/> Will Not Use
If this BMP will not be used, provide brief explanation:	
12. Hazardous Waste Management	
Prevent or reduce the discharge of pollutants to storm water from hazardous waste through proper material use and waste disposal.	<input type="checkbox"/> Will Use <input checked="" type="checkbox"/> Will Not Use
If this BMP will not be used, provide brief explanation:	
<i>Will not generate hazardous waste.</i>	
13. Contaminated Soil Management	
Contain contaminated material soil by surrounding with impermeable lined berms or cover exposed contaminated material with plastic sheets. Contaminated soil should be disposed of properly in accordance with all applicable regulations.	<input type="checkbox"/> Will Use <input checked="" type="checkbox"/> Will Not Use
If this BMP will not be used, provide brief explanation:	
<i>No known contamination at site.</i>	

PANNAKAADAL TI KASO (CASE STUDY) 2: BARO A PAGSANGGA A PADER (RETAINING WALL) (KATEGORYA 1A)

Appendix B

SITE DIAGRAM

Provide a drawing of your site below or attach another map. Include the building outlines, property boundary or fence line, the limits of where your work will be located, flow arrows indicating direction of storm water runoff, location of BMPs, and any storm drains within 50 feet of your property. The drawing does not need to be to scale.



PANNAKAADAL TI KASO (CASE STUDY) 2: BARO A PANGSANGGA A PADER (RETAINING WALL) (KATEGORIA 1A)

Appendix B

PROJECT SCHEDULE

Use the table below or attach a separate project schedule to this ESCP. Project schedules must establish a sequence of all planned actions and activities on the project site, including, but not limited to, all land disturbing activities, the implementation of the BMPs identified in the project ESCP, scheduled inspections and maintenance of BMPs, and the removal of temporary BMPs. The project schedule shall include specific dates or project milestones i.e. install BMPs – 1 day, clear & grub - 2 days, construction – 2 weeks, stabilize disturbed areas – 1 day, remove BMPs – after vegetation is 90% established.

PROJECT SCHEDULE	
Action	Timeline or Date
Notify the Department of Planning and Permitting of Project Start Date - 768-8132 or dpp.npdes@honorolulu.gov	2 weeks before starting work
<i>Install BMPs</i>	<i>1 day</i>
<i>Clear site</i>	<i>1 day</i>
<i>Construct wall</i>	<i>1-5 day</i>
<i>Plant grass</i>	<i>1 day</i>
<i>Remove BMPs after grass is established</i>	<i>1 day</i>

RAIN RESPONSE PLAN

The following will be performed when severe rain is forecast:

- Temporarily suspend land disturbing activities including clearing, grubbing, grading and trenching.
- Inspect all BMPs and maintain as needed.
- Reinstall BMPs that were removed due to active work in the area.
- If a severe storm is expected, remove inlet protection devices to prevent flooding on surrounding streets.
- Cover or relocate material stockpiles and liquid material containers to avoid contact with rainwater.
- Place spill pans or oil-only spill pads under construction vehicles to prevent runoff from contacting any spilled petroleum products. Properly dispose of any accumulated oily water after the rain event.
- Re-inspect project site after the rain event and replace or maintain BMPs as needed.

Other: (please specify)

PANNAKAADAL TI KASO (CASE STUDY) 2: BARO A PANGSANGGA A PADER (RETAINING WALL) (KATEGORIA 1A)

Appendix B

ESCP CERTIFICATION

Construction Site Project Name: Mr. Smith's New Retaining Wall
 Physical Site Address: 1234 O'ahu Street
 Building Permit Application Number: 2018-00-0000

- 1) By signing, you acknowledge that erosion prevention, sediment control, and good housekeeping BMPs in this ESCP are mandatory conditions of your building and/or grading permit and are subject to inspection and enforcement by the Department of Planning and Permitting, in accordance with Section 20-3-7 of the Rules Related to Water Quality.
- 2) If the proposed land disturbing work will be performed in the city sidewalk or right-of-way and/or best management practices installed in the sidewalk area (area between the property line and edge of pavement), the owner is responsible for obtaining a Permit for Street Usage from the Department of Transportation Services, 650 S. King Street, 2nd Floor, Honolulu, Hawaii, 96813.
- 3) The owner is responsible for installing appropriate barricades, flashers, and signage for pedestrian and vehicular safety, and removing the inlet protection(s) before a storm event to prevent flooding of the road and after the project site is completely stabilized.

John Smith

John Smith

4/4/2019

Owner / Authorized Agent Name*

(*Provide Letter Designating Authorized Agent Form if different from owner)

Signature

Date

Check this box to designate the person below as the ESCP Coordinator. If this box is checked, Appendix A is not required to submit, unless revising, or adding a new ESCP Coordinator to inspect this project.

Jane Doe

Jane Doe

4/4/2019

ESCP Coordinator Name

(if different from owner/ authorized agent)

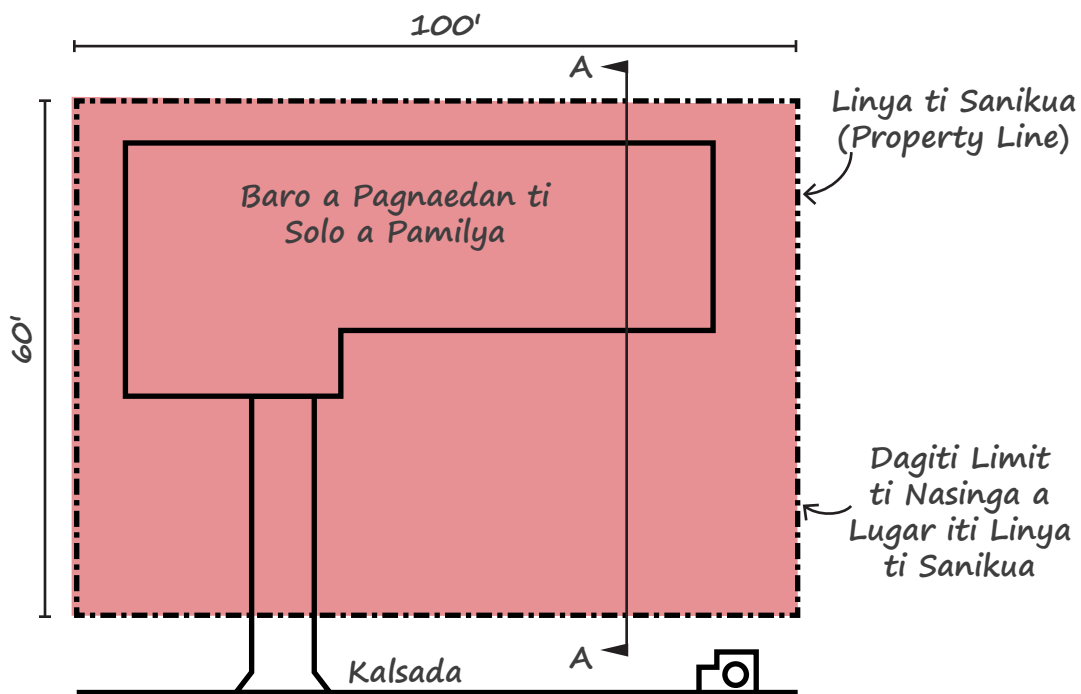
Signature

Date

Certification #: 1111 Phone: 808-2222 Email: jane.doe@email.com

Mailing Address: 5678 Island Way, Honolulu, HI 96855

PANNAKAADAL TI KASO (CASE STUDY) 3: BARO A PAGNAEDAN TI SOLO A PAMILYA (KATEGORYA 1B)



NASINGA A LUGAR (DISTURBED AREA) View ti Plano a Saan a Naka-scale

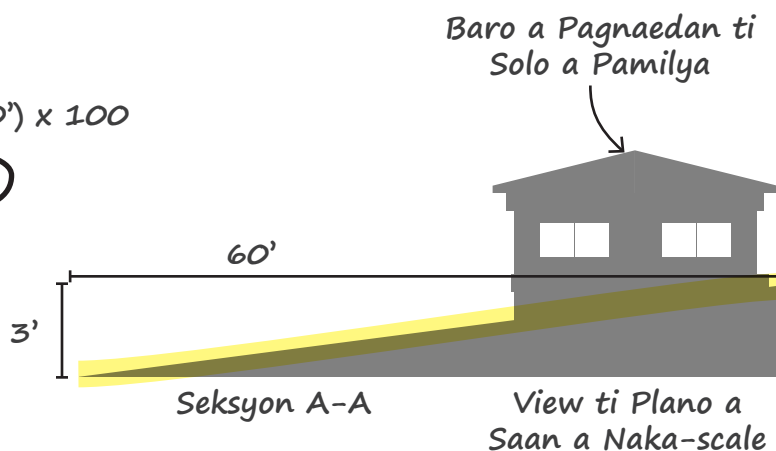
Masinganto ti sibubukel a lote.

$$\begin{aligned}
 \text{Kabuklan Nasinga a Lugar} &= \text{Kalawa ti Lote} \\
 &= 60' \times 100' \\
 &= 6,000 \text{ Kuadrado a Kadapan (Square Feet)}
 \end{aligned}$$

SAKLAW

Ti elevation change lugar ti proyekto ket 3' iti horizontal a distansya a 60'.

$$\begin{aligned}
 \% \text{ Slope} &= (3' \div 60') \times 100 \\
 &= 5\%
 \end{aligned}$$



PANNAKAADAL TI KASO (CASE STUDY) 3: BARO A PAGNAEDAN TI SOLO A PAMILYA (KATEGORYA 1B)

Appendix B



City and County of Honolulu

Erosion and Sediment Control Plan Small Project Template for Categories 1A, 1B and 2

Construction Site Project Name: Mr. Smith's New Single-Family Dwelling
 Physical Site Address: 1234 O'ahu Street
 Building Permit Application Number: 2018-00-0000
 Disturbed Area (square-feet)*: 6,000 sq. ft.

*Disturbed area includes the project area, construction access on unpaved surfaces, and storage/ staging area(s).

Instructions:

Use this template to prepare an Erosion and Sediment Control Plan (ESCP) for projects under the City and County of Honolulu, Department of Planning and Permitting (DPP) Categories 1A, 1B, and 2. This ESCP may be prepared and must be signed by the property owner or an authorized agent designated by the owner. Submit a completed ESCP with the building permit application and keep a copy of the approved ESCP on the job site at all times. Any changes to the approved ESCP must be approved by the DPP.

Refer to the guidance booklet "How to Prepare Erosion and Sediment Control Plan for Small Construction Projects" available on DPP's website @ www.honolulu.dpp.org for more information on each BMP below. Select the BMPs which will be used at the site and if not used, provide a brief explanation for why it is not needed or impracticable for the site.

Designate a certified ESCP coordinator for the project by providing the information on page 6 of this template or sending written notice to DPP (the form is available on DPP's website). The ESCP coordinator is responsible for performing inspections before construction starts and at least once every 30 days until permanent stabilization is in place.

I. EROSION PREVENTION BMPs: practices that prevent erosion from occurring.	
1. Permanent Stabilization (REQUIRED)	
Prior to closing of any permit(s) permanent stabilization must be in place which includes the following requirements:	
<ul style="list-style-type: none"> • All exposed disturbed areas must be permanently stabilized with ground covering such as vegetation, gravel, or pavers; • Rain gutters, downspouts, and channelized flows must be installed and functioning as designed; • In seeded areas, grass or vegetation must cover at least 90 percent of the disturbed soils or must be temporary stabilized while it is growing; • Temporary measures, such as sediment barriers, should be removed when permanent measures are in place; • All paved surfaces must be clean; and • Storm drain inlet filters must be removed after all cleanup activities have been completed. 	
2. Slope Management and Protection (Category 1B and 2 only)	
Areas disturbed on a slope greater than 15% must be protected when work is inactive for seven (7) days or more.	
	<p>To find the slope, divide the vertical height of your slope by the horizontal length of your slope and multiply by 100. For example, if your slope measures 3 feet vertically, and 10 feet horizontally, your slope would be $3 / 10 \times 100 = 30\%$.</p>
	Check if will be used:
1. Rolled erosion control products	<input type="checkbox"/>
2. Hydraulic mulch or hydroseed	<input type="checkbox"/>
3. Hydraulic or bonded fiber matrix	<input type="checkbox"/>
4. Planting and/ or vegetation providing at least 70% surface cover	<input type="checkbox"/>
5. Other: (please specify)	<input type="checkbox"/>
	<input checked="" type="checkbox"/> Will Not Use
If this BMP will not be used, provide brief explanation:	
<u>Slopes are less than 15%.</u>	

PANNAKAADAL TI KASO (CASE STUDY) 3: BARO A PAGNAEDAN TI SOLO A PAMILYA (KATEGORYA 1B)

Appendix B

3. Temporary Stabilization (Category 1B and 2 only)

Use one or more of the following to protect disturbed areas that will not be worked on within 14 days: Check if will be used:

- | | |
|--|--|
| 1. Rolled erosion control products | <input type="checkbox"/> |
| 2. Hydraulic mulch or hydroseed | <input type="checkbox"/> |
| 3. Hydraulic or bonded fiber matrix | <input type="checkbox"/> |
| 4. Planting and/or vegetation providing at least 70% surface cover | <input type="checkbox"/> |
| 5. Other: (please specify) | <input type="checkbox"/> |
| | <input checked="" type="checkbox"/> Will Not Use |

If this BMP will not be used, provide brief explanation:

Do not anticipate delays of 14 days or more.

II. SEDIMENT CONTROL BMPs: practices to prevent soil and sediment from leaving the project site and entering storm drains during rain events.

1. Perimeter Controls

Sediment fences or barriers shall be used at the perimeter of all disturbed areas where there is potential for runoff to flow off the project site. Barriers may include gravel bags, sand bags, fiber rolls, silt fences, compost socks, or an equivalent BMP that intercepts runoff.

- Will Use
 Will Not Use

If this BMP will not be used, provide brief explanation:

2. Storm Drain Inlet Protection

Inlet protection is required over storm drains that may receive runoff from your site unless those inlets drain to a sediment basin or trap. Inlet protection should be removed during severe storm events to prevent flooding.

- Will Use
 Will Not Use

If this BMP will not be used, provide brief explanation:

III. GOOD HOUSEKEEPING BMPs: practices that prevent pollution by limiting or reducing potential pollutants at their source.

1. BMP and Site Maintenance (REQUIRED)

Regularly inspect and maintain BMPs to ensure continued performance.

2. Dust Control

Use one of the following to control dust: Check if will be used:

- | | |
|--|---------------------------------------|
| 1. Mulching to a depth of one inch or more | <input type="checkbox"/> |
| 2. Sprinkling exposed soils with water to maintain moistness | <input checked="" type="checkbox"/> |
| 3. Vertical dust barriers | <input type="checkbox"/> |
| | <input type="checkbox"/> Will Not Use |

If this BMP will not be used, provide brief explanation:

3. Concrete Waste Management

Conduct washout off-site or perform onsite in a designated area, away from water bodies, channels, or storm drains. Construct and maintain washout to contain all liquid and concrete waste generated.

- Will Use
 Will Not Use

If this BMP will not be used, provide brief explanation:

4. Stockpile Management

Locate stockpiles away from drainage ways or other areas of concentrated flows. Use a barrier around stockpiles and cover if they will not be actively used within seven (7) days.

- Will Use
 Will Not Use

If this BMP will not be used, provide brief explanation:

5. Vehicle Tracking Control

Restrict vehicle traffic to properly designated areas and remove sediment from vehicle tires prior to exiting the project site. All sediments that are tracked or discharged off-site must be swept or vacuumed at the end of each day.

- Will Use
 Will Not Use

If this BMP will not be used, provide brief explanation:

PANNAKAADAL TI KASO (CASE STUDY) 3: BARO A PAGNAEDAN TI SOLO A PAMILYA (KATEGORYA 1B)

Appendix B

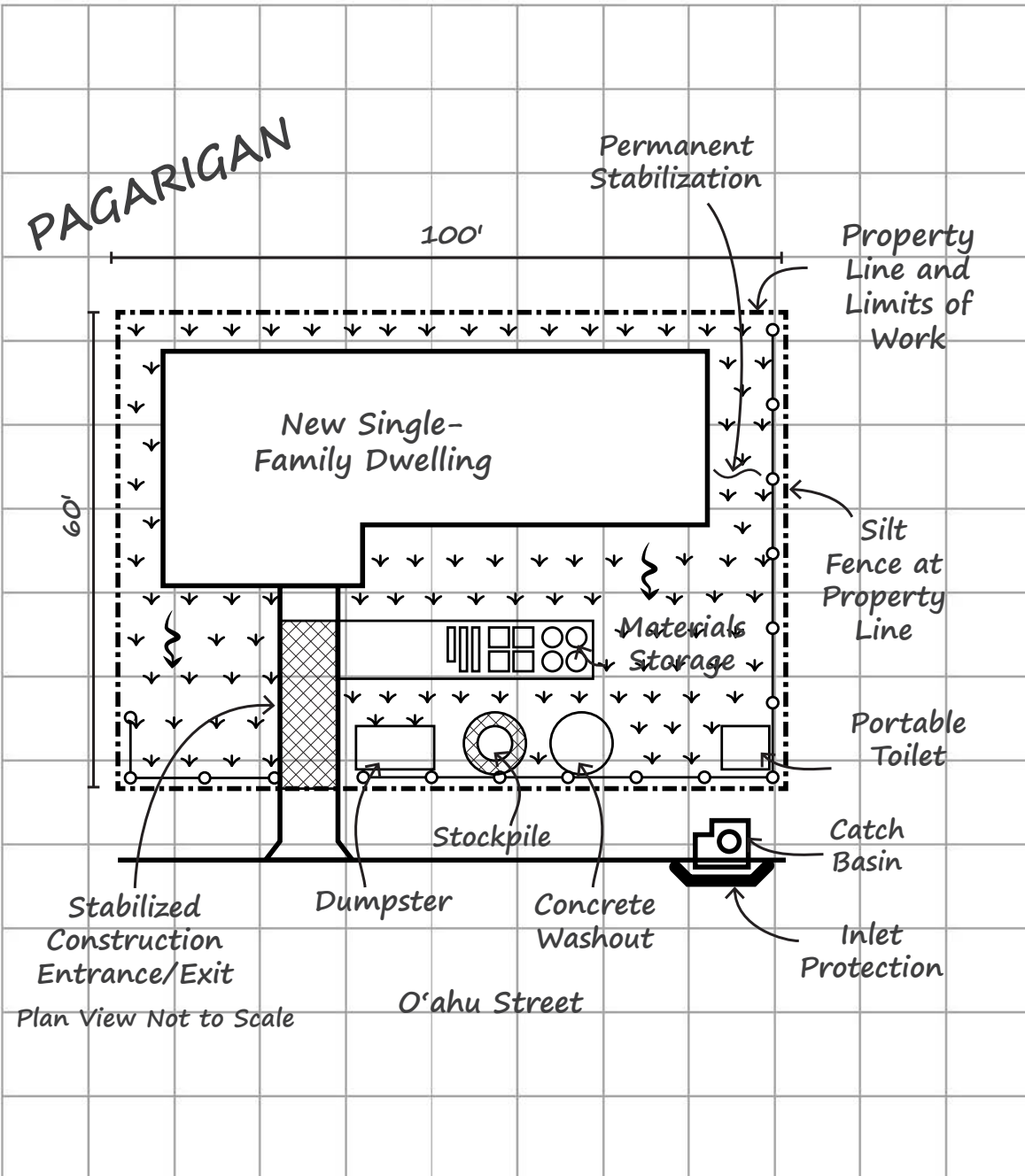
6. Material Delivery, Storage and Use Management	
Minimize the storage of potential pollutants onsite, store materials in a designated area, and install secondary containment. Do not store materials in buffer areas, near areas of concentrated flow, or areas abutting the City storm drainage system, receiving waters, or drainage improvements that discharge off-site.	<input checked="" type="checkbox"/> Will Use <input type="checkbox"/> Will Not Use
If this BMP will not be used, provide brief explanation:	
7. Spill Prevention and Control	
Keep ample supply of cleanup materials onsite. Clean up spills immediately, using dry clean-up methods where possible, and dispose of used materials properly.	<input checked="" type="checkbox"/> Will Use <input type="checkbox"/> Will Not Use
If this BMP will not be used, provide brief explanation:	
8. Solid Waste Management	
Provide designated waste collection areas for solid waste or construction and demolition waste, collect trash daily, and dispose at authorized disposal areas.	<input checked="" type="checkbox"/> Will Use <input type="checkbox"/> Will Not Use
If this BMP will not be used, provide brief explanation:	
9. Portable Toilets (Sanitary/ Septic Waste Management)	
Temporary and portable sanitary and septic waste systems shall be mounted or staked in, well-maintained and scheduled for regular waste disposal and servicing.	<input checked="" type="checkbox"/> Will Use <input type="checkbox"/> Will Not Use
If this BMP will not be used, provide brief explanation:	
10. Liquid Waste Management BMPs	
Contain liquid wastes in a holding pit, sediment basin, roll-off bin, or portable tank of sufficient volume to contain the liquid wastes generated.	<input type="checkbox"/> Will Use <input checked="" type="checkbox"/> Will Not Use
If this BMP will not be used, provide brief explanation:	
<i>Will not generate liquid waste.</i>	
11. Vehicle and Equipment Cleaning, Fueling, and Maintenance	
Prevent pollutants in storm water from vehicle and equipment cleaning, fueling and maintenance by using off-site facilities when feasible, performing work in designated areas only, using spill pads under vehicles and equipment, checking for leaks and spills, and containing and cleaning up spills immediately.	<input checked="" type="checkbox"/> Will Use <input type="checkbox"/> Will Not Use
If this BMP will not be used, provide brief explanation:	
12. Hazardous Waste Management	
Prevent or reduce the discharge of pollutants to storm water from hazardous waste through proper material use and waste disposal.	<input checked="" type="checkbox"/> Will Use <input type="checkbox"/> Will Not Use
If this BMP will not be used, provide brief explanation:	
13. Contaminated Soil Management	
Contain contaminated material soil by surrounding with impermeable lined berms or cover exposed contaminated material with plastic sheets. Contaminated soil should be disposed of properly in accordance with all applicable regulations.	<input type="checkbox"/> Will Use <input checked="" type="checkbox"/> Will Not Use
If this BMP will not be used, provide brief explanation:	
<i>No known contamination on site.</i>	

PANNAKAADAL TI KASO (CASE STUDY) 3: BARO A PAGNAEDAN TI SOLO A PAMILYA (KATEGORYA 1B)

Appendix B

SITE DIAGRAM

Provide a drawing of your site below or attach another map. Include the building outlines, property boundary or fence line, the limits of where your work will be located, flow arrows indicating direction of storm water runoff, location of BMPs, and any storm drains within 50 feet of your property. The drawing does not need to be to scale.



PANNAKAADAL TI KASO (CASE STUDY) 3: BARO A PAGNAEDAN TI SOLO A PAMILYA (KATEGORYA 1B)

Appendix B

PROJECT SCHEDULE

Use the table below or attach a separate project schedule to this ESCP. Project schedules must establish a sequence of all planned actions and activities on the project site, including, but not limited to, all land disturbing activities, the implementation of the BMPs identified in the project ESCP, scheduled inspections and maintenance of BMPs, and the removal of temporary BMPs. The project schedule shall include specific dates or project milestones i.e. install BMPs – 1 day, clear & grub - 2 days, construction – 2 weeks, stabilize disturbed areas – 1 day, remove BMPs – after vegetation is 90% established.

PROJECT SCHEDULE	
Action	Timeline or Date
Notify the Department of Planning and Permitting of Project Start Date - 768-8132 or dpp.npdes@honolulu.gov	2 weeks before starting work
<i>Install BMPs</i>	<i>1 day</i>
<i>Clear site</i>	<i>3 day</i>
<i>Construct house</i>	<i>4 months</i>
<i>Plant grass and landscaping</i>	<i>2 weeks</i>
<i>Remove BMPs after grass and landscaping is established</i>	<i>1 day</i>

RAIN RESPONSE PLAN

The following will be performed when severe rain is forecast:
<ul style="list-style-type: none"> Temporarily suspend land disturbing activities including clearing, grubbing, grading and trenching. Inspect all BMPs and maintain as needed. Reinstall BMPs that were removed due to active work in the area. If a severe storm is expected, remove inlet protection devices to prevent flooding on surrounding streets. Cover or relocate material stockpiles and liquid material containers to avoid contact with rainwater. Place spill pans or oil-only spill pads under construction vehicles to prevent runoff from contacting any spilled petroleum products. Properly dispose of any accumulated oily water after the rain event. Re-inspect project site after the rain event and replace or maintain BMPs as needed.
Other: (please specify)

PANNAKAADAL TI KASO (CASE STUDY) 3: BARO A PAGNAEDAN TI SOLO A PAMILYA (KATEGORYA 1B)

Appendix B

ESCP CERTIFICATION

Construction Site Project Name: Mr. Smith's New Single-Family Dwelling
 Physical Site Address: 1234 O'ahu Street
 Building Permit Application Number: 2018-00-0000

- 1) By signing, you acknowledge that erosion prevention, sediment control, and good housekeeping BMPs in this ESCP are mandatory conditions of your building and/or grading permit and are subject to inspection and enforcement by the Department of Planning and Permitting, in accordance with Section 20-3-7 of the Rules Related to Water Quality.
- 2) If the proposed land disturbing work will be performed in the city sidewalk or right-of-way and/or best management practices installed in the sidewalk area (area between the property line and edge of pavement), the owner is responsible for obtaining a Permit for Street Usage from the Department of Transportation Services, 650 S. King Street, 2nd Floor, Honolulu, Hawaii, 96813.
- 3) The owner is responsible for installing appropriate barricades, flashers, and signage for pedestrian and vehicular safety, and removing the inlet protection(s) before a storm event to prevent flooding of the road and after the project site is completely stabilized.

John Smith

Owner / Authorized Agent Name*
(*Provide Letter Designating Authorized Agent Form if different from owner)

John Smith

Signature

4/4/2019

Date

Check this box to designate the person below as the ESCP Coordinator. If this box is checked, Appendix A is not required to submit, unless revising, or adding a new ESCP Coordinator to inspect this project.

Jane Doe

ESCP Coordinator Name
(if different from owner/ authorized agent)

Jane Doe

Signature

4/4/2019

Date

Certification #: 1111 Phone: 808-2222 Email: jane.doe@email.com

Mailing Address: 5678 Island Way, Honolulu, HI 96855

SAMPOL A FORM TI INSPEKSYON

Appendix C

City and County of Honolulu



PAGARIGIAN

Construction Site BMPs Inspection Checklist For CCH Category 1A, 1B, 2, 3, and 4 and Trenching Projects

General Information		
Project Name:	Mr. Smith's New Single-Family Dwelling	
ESCP Coordinator:	Ms. Jane Doe	
Location:	1234 O'ahu Street	
Owner/Authorized Agent:	John Smith	
Contractor:	ABC Contracting	
1. City Permit (check all that apply)	Building #: <input checked="" type="checkbox"/> BP#123456 Exp. Date: 08/16/2019 Grubbing #: <input type="checkbox"/> Exp. Date: <input type="checkbox"/> Trenching #: <input type="checkbox"/> Exp. Date: <input type="checkbox"/>	
2. Other Permits (list all):		
Inspection Type		
<input type="checkbox"/> Pre-construction inspection	<input checked="" type="checkbox"/> Regular Monthly Inspection (Category 1A, 1B, 2)	
	<input type="checkbox"/> Regular Weekly Inspection (Category 3, 4, Trenching)	
	<input type="checkbox"/> Re-inspection	
Project Phase (check all that apply)		
<input type="checkbox"/> Mobilization / Demolition	<input type="checkbox"/> Grubbing / Clearing	
<input checked="" type="checkbox"/> Building Construction	<input type="checkbox"/> Final Grading	
	<input checked="" type="checkbox"/> Infrastructure / Utilities	
Records Review (If "No" is checked for any of the following columns, complete Deficiencies / Corrective Action Report on page 3.)		
Pre-Construction Inspection	Available at Site	Complete, Signed, and Current
Weekly or Monthly Construction Inspections	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Erosion and Sediment Control Plan (ESCP)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

SAMPOL A FORM TI INSPEKSYON

Appendix C

Construction BMP Inspection Results (Mark the BMPs that are required per Plan for each column)

Construction BMP	Erosion Prevention		Sediment Control		Good Housekeeping	
	Installed / Maintained	Number of Deficiencies	Installed / Maintained	Number of Deficiencies	Installed / Maintained	Number of Deficiencies
<input checked="" type="checkbox"/> Project Planning and Design	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	2	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	4
<input checked="" type="checkbox"/> Project Scheduling	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	1	<input type="checkbox"/> Y <input type="checkbox"/> N	
<input checked="" type="checkbox"/> Slope Management and Protection	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	1	<input type="checkbox"/> Y <input type="checkbox"/> N		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	2
<input checked="" type="checkbox"/> Temporary Stabilization	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	1
<input checked="" type="checkbox"/> Permanent Stabilization	<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
<input type="checkbox"/> Diversion BMPs to divert runoff from upstream areas around disturbed areas	<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	2
<input type="checkbox"/> Velocity Dissipation Devices	<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N	
<input type="checkbox"/> Other:	<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N	
<input checked="" type="checkbox"/> BMP and Site Maintenance	<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
<input type="checkbox"/> Dust Control	<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N	
<input checked="" type="checkbox"/> Material Delivery, Storage, and Use BMPs	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	2
<input checked="" type="checkbox"/> Stockpiling Management	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	1
<input checked="" type="checkbox"/> Spill Prevention and Control	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
<input checked="" type="checkbox"/> Solid Waste Management	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	2
<input type="checkbox"/> Hazardous Waste Management	<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N	
<input type="checkbox"/> Contaminated Soil Management	<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N	
<input checked="" type="checkbox"/> Concrete Waste Management	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
<input checked="" type="checkbox"/> Sanitary / Septic Waste Management	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
<input type="checkbox"/> Liquid Waste Management	<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N	
<input type="checkbox"/> Vehicle & Equipment Cleaning	<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N	
<input type="checkbox"/> Vehicle & Equipment Fueling	<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N	
<input type="checkbox"/> Vehicle & Equipment Maintenance	<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N	
<input checked="" type="checkbox"/> Vehicle Tracking Control	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	2
<input checked="" type="checkbox"/> Stabilized Construction Entrance and Exit	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	2
<input type="checkbox"/> Dewatering Operations BMPs.	<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N	
<input type="checkbox"/> Other:	<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N	

PANANGKON

SAMPOL A FORM TI INSPEKSYON

Appendix C

Deficiencies / Corrective Action Reports					
Item No.	Location	Description of Deficiency	Date Corrected	Action Taken	ESCP amendment required (Y/N)
1	Front Driveway of Property	Sediment Tracking onto Roadway	8/16/18	Swept Roadway. Added BMIPs	Y
2	Sidewalk Area	Unprotected Soil Stockpiles on Sidewalk	8/16/18	Protected Stockpile	Y
3	East Side of Property	Sediment Discharge onto Roadway	8/16/18	Swept Roadway. Added BMIPs	Y
4	Southwest Corner of Property	Unprotected Exposed Slope	8/16/18	Swept Roadway. Added BMIPs	Y

PAGPAPRIGANGAN

Ms. Jane Doe

ESCP Coordinator

Jane Doe

Signature

4/4/2019

Date

SAMPOL A FORM TI INSPEKSYON

Appendix C

Deficiencies / Corrective Action Reports (attach additional pages as needed)

Photo # 1



Photo # 2



PANGARIGAN

Taken By: Jane Doe Date: 4/4/2019
 Description: 1234 O'ahu Street

Comments:
 Sediment tracking onto roadway. Recommend sweeping road to remove any dirt tracked and installing entrance protection with gravel or other means to prevent tracking. Recommend installing perimeter and slope protection BMPs.

Status: Completed Priority: High

Corrected by (initials) JD Date: 4/4/2019

Comments:
 Swept roadway and installed biosock along perimeter. Placed down 6" layer of gravel with blanket filter fabric lining underneath at entrance.

Rev. 7/30/2018

Taken By: Jane Doe Date: 4/4/2019
 Description: 1234 O'ahu Street

Comments:
 Illegal unprotected stockpile stored on sidewalk. Recommend moving stockpile onto property and protecting with perimeter control and possibly covering material.

Status: Completed Priority: High

Corrected by (initials) JD Date: 4/4/2019

Comments:
 Swept roadway and moved stockpile onto property. Installed biosock around stockpile and covered with tarp.



Page 4 of 4

SAMPOL A FORM TI INSPEKSYON

PAGGARRIGIGANAN

Appendix C

Deficiencies / Corrective Action Reports (attach additional pages as needed)

Photo # 1	Photo # 2
	
<p>Taken By: Jane Doe Date: 4/4/2019</p> <p>Description: New single-family dwelling at 1234 O'ahu Street</p> <p>Comments: Lack of perimeter control BMPs and evidence of sediment discharge onto roadway. Recommend installing sediment control BMPs at perimeter and protecting exposed soil. Sweep and remove soil residue off road. Remove construction materials and store properly.</p> <p>Status: Completed Priority: High</p> <p>Corrected by (initials): JD Date: 4/4/2019</p> <p>Comments: Swept roadway and installed bio-sock and silt fence at perimeter. Removed construction materials and disposed properly.</p>	<p>Taken By: Jane Doe Date: 4/4/2019</p> <p>Description: New single-family dwelling at 1234 O'ahu Street</p> <p>Comments: No slope protection and lack of BMPs at perimeter, signs of sediment discharge onto sidewalk. Recommend protecting slope with matting and install sediment control BMPs at perimeter. Sweep and remove soil off sidewalk. Remove construction materials off sidewalk and store properly. Clean inlet.</p> <p>Status: Completed Priority: High</p> <p>Corrected by (initials): JD Date: 4/4/2019</p> <p>Comments: Swept sidewalk and cleaned inlet of debris and sediment. In stalled silt fence at the bottom of slope and placed matting over slope. Removed construction materials and disposed properly.</p>

DAGITI KONTAK TI DEPARTAMENTO TI PANAGPLANO KEN PANAGPALUBOS

Dagiti Mainaig a Salsaludsod iti Storm Water Building Permit 768-8230

Dagiti Mainaig a Salsaludsod iti Storm Water Grading Permit 768-8216 wenno 768-8217

ONLINE NGA IMPORMASYON KEN DAGITI RESOURCES TI TRAINING

Training iti Sertipikasyon ti Tagakoordina iti Plano a Panangkontrol iti Panagreggay ken Arinsaed: q-r.to/DPP-SWQ



Dagiti Form/Template:

www.honoluludpp.org/ApplicationsForms/StormwaterQuality.aspx

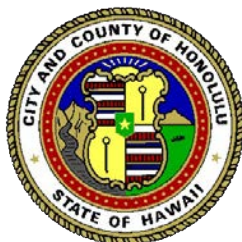
DAGITI GUNGGUNA TI BANUAR TI AGLAWLAW (ENVIRONMENTAL HERO) KEN NAIMBAG A KARRUBA (GOOD NEIGHBOR)

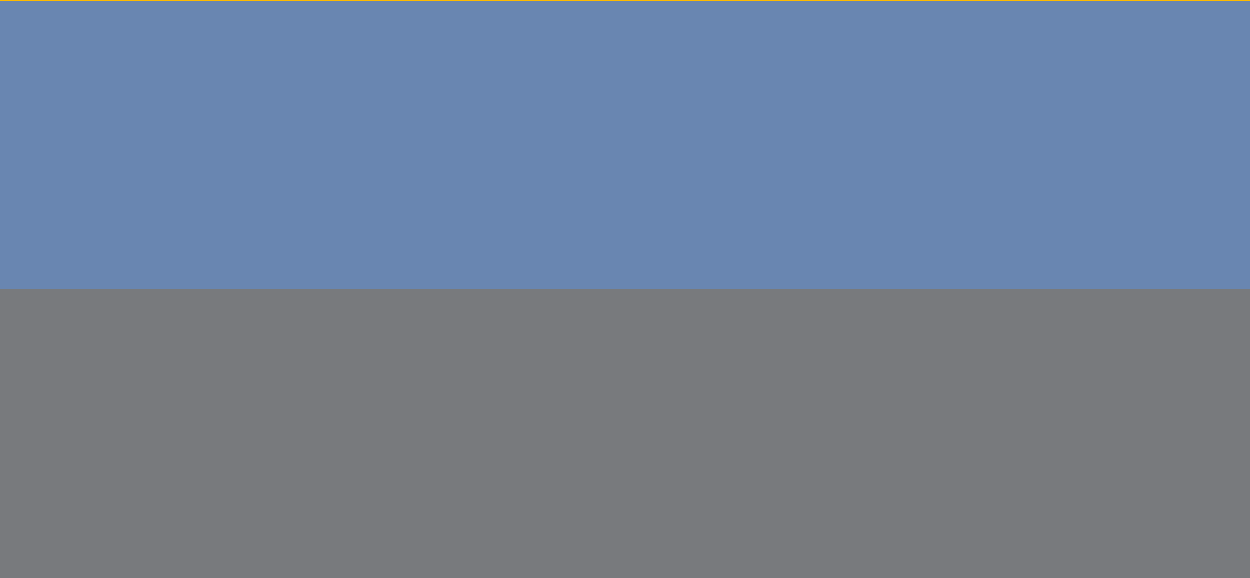
Tunggal dua a tawen ti Departamento ti Pannakamentenar ti Pasilidad (Department of Facility Maintenance) ti Siyudad ken County ti Honolulu, Sangay ti Kalidad ti Danum ti Bagyo (Storm Water Quality) ket mangpli iti maysa a kontraktor ti konstraksyon para iti Environmental Hero Award ken maysa a developer para iti Good Neighbor Award.

Pilien ti Siyudad dagiti magunggunaan maibasar iti data ti inspeksyon ti site a mangipakita iti naisangsangayan a panangipursige ti negosyo (business' outstanding efforts) a mangipatungpal kadagiti regulasyon ti danum ti bagyo kadagiti proyektoda.

Dagiti immunan a napadayawan a negnegosyo ket saanda laeng a saysayaaten dagiti proyektoda, no diket ti sibubukel a sangakarrubaan babaen iti panangpartuat kadagiti epektibo a sistema tapno maliklikan ti panagayus ti site, panangited iti naiget a training iti tao ken panangipakita iti epektibo a panangliklik iti polusyon.

Dagiti mapili a negnegosyo ket maipakita iti nadumaduma a patalastas ken maimbitaran iti seremonya a pangbigbig a personalda a mapagayanan babaen iti opisina ti Mayor.





BE AN EVERYDAY
CLEAN WATER

