**HOME SURVEY** Name of data collector: Date:

Did you recycle? \_\_\_\_\_\_\_\_\_\_ How many items were recycled? \_\_\_\_\_\_\_\_\_\_

|  |  |  |
| --- | --- | --- |
| **Categories** | **Tally** | **Totals** |
| **Beverage bottles:** e.g. water, juice, soda, including six pack rings. |  |  |
| **Non-beverage bottles:** detergent, bleach, milk, soaps, motor oil bottles, etc |  |  |
| **Food packaging:** e.g. candy, chips. |  |  |
| **Clear Plastic wrap & sandwich bags:** |  |  |
| **Shopping Bags** |  |  |
| **Foam items:** e.g. foam cups, foam food trays, packing peanuts, foam pieces. |  |  |
| **Utensils, straws and cups.** |  |  |
| **Personal hygiene:** e.g. tampons, razors, band aides, diapers, condoms. |  |  |
| **Medicine bottles** |  |  |
| **Smoking paraphernalia:** e.g. cig. butts, cigar tips, disposable lighters. |  |  |
| **Plastic pipe** |  |  |
| **Toys** |  |  |
| **Plastic fragments** (including bottle caps) |  |  |
|  |  |  |
| Recycling Number Tallies | Brand Name Tallies |  |
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**Street Survey Setup & Protocol (Page 1)**

**Pre-trip planning:**

* Arrange students in groups of 3-5, assign them group names or numbers.
* Assign roles:
  + **Collectors**: should give the recorder *three data points* before depositing the trash. You can have students practice in the classroom with the three important data points.
    - Example: “Beverage bottle, recycling #1, brand name Aquafina”
    - Example: “Bottle cap, no recycling #, no brand name”
  + **Recorders**: record data from collectors on **Data Sheets**, prompt collectors if they forget what data to provide.
  + **Bag/bucket holders**: remain at fixed point next to recorder and assist with data or sorting if appropriate/necessary.
* Complete the **Street Characterization Sheet** with as much info as possible.
* With **Data Sheets** and distributed bags/buckets, send groups to their locations. You should walk back and forth to different groups offering advice and ensuring data is filled out.
* *Safety is a priority. Do not touch or lift potentially hazardous or large, heavy items. Notify your local officials if such items are encountered.*

**Street Characterization Sheet**

Before any data collection begins, the **Street Characterization Sheet** should be completed for each street site. On this data sheet you will note:

* GPS coordinates in decimal degrees at the beginning and end of your street site.
* Street characteristics (e.g. nearest garbage bin, presence of a sewer drain, stop lights); surrounding land-use characteristics that may influence the delivery of debris to the site (e.g. retail stores, construction areas, food vendors).

**You will need the following supplies in order to complete your surveys:**

Digital camera (optional) Chalk

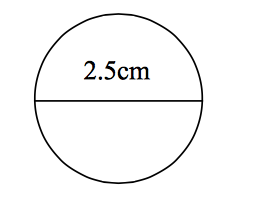
50 Meters measuring tape Work gloves

Clipboards for data sheets Pencils

Trash bag or bucket Data sheets

**Street Survey Setup & Protocol (Page 2)**

**Street Transect Setup**

1. BEFORE arriving at the site, take into consideration when the site has the least foot traffic, if possible.
2. ONCE ARRIVED
   1. Measure your 50 m street site and divide the 50 m into segments. Measure your 50-m street site and divide the 50 m into segments so that each group is balanced between safety/supervision concerns and the amount of site that a team can reasonably cover in the time available. For more data, you can measure two 50-meter sites.
   2. Mark the beginning and end of your street site (50-m), with chalk and mark Segments with chalk.
   3. Number each section (left to right) from 1 to 10. Each 10-m segment should run from the curb to the property boundary.
3. In order to cover the entire site from the curb to the property boundary, decide whether you will traverse the survey area parallel or perpendicular to the curb. Surveyors should traverse the survey area in a pre-determined walking pattern until the entire site is cleared of debris.
4. Record on your Data Sheet counts of debris items that measure over 2.5 cm, or 1 inch (bottle cap size) see Figure 1.

*Figure 1. Minimum debris size to be counted. \*This size is required to keep surveyors counting the same size items and to help keep the survey results uniform.*

1. Take photos of your street site and some of the debris items.

**STREET SURVEY** Name of data collector: Date:

Transect Sampled (in 50m area e.g. 20m-40m): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |
| --- | --- | --- |
| **Categories** | **Tally** | **Totals** |
| **Beverage bottles:** e.g. water, juice, soda, including six pack rings. |  |  |
| **Non-beverage bottles:** detergent, bleach, milk, soaps, motor oil bottles, etc. |  |  |
| **Food packaging:** e.g. candy, chips. |  |  |
| **Clear Plastic wrap & sandwich bags:** |  |  |
| **Shopping Bags** |  |  |
| **Foam items:** e.g. foam cups, foam food trays, packing peanuts, foam pieces. |  |  |
| **Utensils, straws and cups.** |  |  |
| **Personal hygiene:** e.g. tampons, razors, band aides, diapers, condoms. |  |  |
| **Medicine bottles** |  |  |
| **Smoking paraphernalia:** e.g. cig. butts, cigar tips, disposable lighters. |  |  |
| **Plastic pipe** |  |  |
| **Toys** |  |  |
| **Plastic fragments** (including bottle caps) |  |  |
|  |  |  |
| Recycling Number Tallies | Brand Name Tallies |  |
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**Street Characterization Sheet**

Location: (City, State)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_Time\_\_\_\_\_\_\_\_\_\_

Street Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

School or Organization:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name of Team Leader:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Length of Street Sampled:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Width of Street Sampled:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Notes (including description, landmarks, possible litter producing sources, etc.):

**Beach Survey**

**Pre-trip planning:**

* Arrange students in groups of 3-5, assign them group names or numbers.
* Assign roles:
  + **Collectors**: should give the recorder *three data points* before depositing the trash. You can have students practice in the classroom with the three important data points.
    - Example: “Beverage bottle, recycling #1, brand name Aquafina”
    - Example: “Bottle cap, no recycling #, no brand name”
  + **Recorders**: record data from collectors on **Data Sheets**, prompt collectors if they forget what data to provide.
  + **Bag/bucket holders**: remain at fixed point next to recorder and assist with data or sorting if appropriate/necessary.
* Complete the **Street Characterization Sheet** with as much info as possible.
* With **Data Sheets** and distributed bags/buckets, send groups to their locations. You should walk back and forth to different groups offering advice and ensuring data is filled out.
* *Safety is a priority. Do not touch or lift potentially hazardous or large, heavy items. Notify your local officials if such items are encountered.*

**You will need the following supplies in order to complete your surveys:**

Digital camera (optional) Trash bag or bucket

Pencils Data sheets

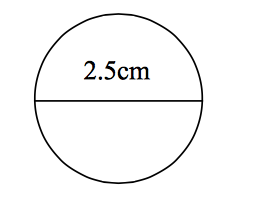
Clipboards for data sheets Work gloves

Flag markers or stakes 50-100 Meters measuring tape

Hand-held GPS unit or (FREE) Command Compass App Extra Lengths of Rope 50-m (optional)

First aid kit (with sunscreen, bug spray, drinking water)

**Beach Transect Setup**

1. BEFORE arriving at the site, check local tide tables and plan to arrive at your site during low tide.
2. ONCE ARRIVED
   1. Measure your 100-m shoreline site and divide the 100 m into 10-m segments. There should be 10 of them.
   2. Mark the beginning and end of your shoreline site (100-m), perhaps with flags or stakes. (Remember to pick up these markers at the end of your survey to make sure they do not become marine debris.)
   3. Mark Segments with rope or other markers, stakes, rocks, a line drawn in the sand.
   4. Number each section (left to right) from 1 to 10. Each 10-m segment should run from the water’s edge to the back of the shoreline.
   5. The back of the shoreline is where the primary substrate (e.g., sand) changes (e.g., sand becomes gravel) or at the first barrier (e.g., vegetation line).
3. In order to cover the entire site from water’s edge to the back of the shoreline, decide whether you will traverse the survey area parallel or perpendicular to the water. Surveyors should traverse the survey area in a pre-determined walking pattern until the entire site is cleared of marine debris.
4. Record on your Marine Debris Data Sheet counts of debris items that measure over 2.5 cm, or 1 inch (bottle cap size) see Figure 1.

*2.5cmFigure 1. Minimum debris size to be counted. \*This size is required to keep surveyors counting the same size items and to help keep the survey results uniform.*

1. Take photos of your shoreline site and some of the debris items.

**Shoreline Characterization Sheet**

Location: (City, State)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_Time\_\_\_\_\_\_\_\_\_\_

Shoreline Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Time of Last High Tide:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

School or Organization:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name of Team Leader:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Length of Beach Sampled:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Width of Beach Sampled:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

GPS Coordinates

|  |  |  |
| --- | --- | --- |
| (GPS Coordinates) UTM Zone | Easting | Northing |
| Transect Beginning: |  |  |
| Transect Ending: |  |  |

Notes: (including description, landmarks, fishing activity, etc.)

**BEACH SURVEY** Name of data collector: Date:

Transect Sampled (in 100m area e.g. 20m-40m): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |
| --- | --- | --- |
| **Categories** | **Tally** | **Totals** |
| **Beverage bottles:** e.g. water, juice, soda, including six pack rings. |  |  |
| **Non-beverage bottles:** detergent, bleach, milk, soaps, motor oil bottles, etc. |  |  |
| **Food packaging:** e.g. candy, chips. |  |  |
| **Clear Plastic wrap & sandwich bags:** |  |  |
| **Shopping Bags** |  |  |
| **Foam items:** e.g. foam cups, foam food trays, packing peanuts, foam pieces. |  |  |
| **Utensils, straws and cups.** |  |  |
| **Personal hygiene:** e.g. tampons, razors, band aides, diapers, condoms. |  |  |
| **Medicine bottles** |  |  |
| **Smoking paraphernalia:** e.g. cig. butts, cigar tips, disposable lighters. |  |  |
| **Plastic pipe** |  |  |
| **Toys** |  |  |
| **Plastic fragments** (including bottle caps) |  |  |
|  |  |  |
| Recycling Number Tallies | Brand Name Tallies |  |
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