



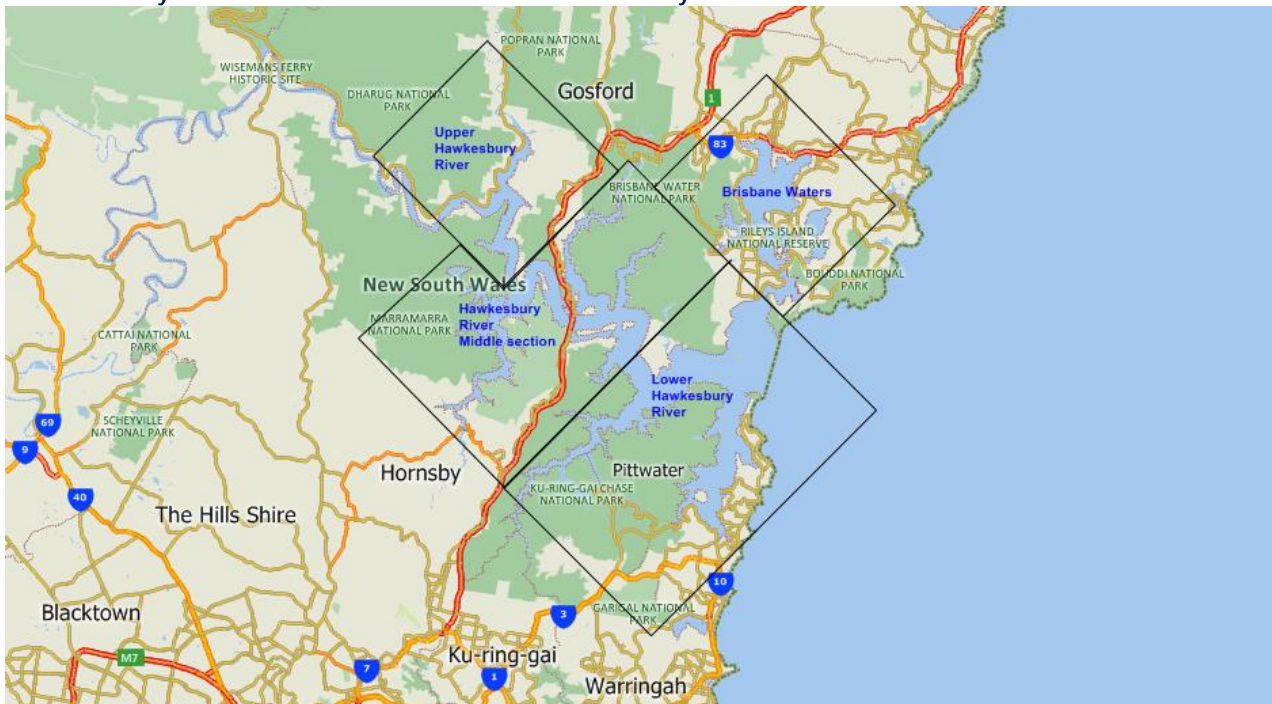
Beach Cleanup Data Summary

Hunter Nepean Catchment Management Authority (HNCMA) Foreshore Cleanup Program

Community Details

Timeframe	October 2012 to March 2013
Community	Hawkesbury River Communities
Organisation	Graham Johnston Training Services
Community Partners Involved	Please see list below
Contact Person/s	Graham Johnston
NRM Region	Hawkesbury-Nepean NRM
State	NSW

Hawkesbury River Areas used in this Summary



Comments

This data summary provides a baseline for the data being collected by the HNCMA foreshore cleanup program. Data collection using the Tangaroa Blue Foundation methodology began in October 2012. The aim of these data summaries is to complement the program's activity reports with statistical information on the items recovered from the river for the purpose of identifying sources of debris and identifying mitigation measures. Future data summaries will be produced on a quarterly basis and additional details of individual cleanup sites are available on request to project partners. Comments and suggestions on the content and presentation of the program's data are welcome.



Cleanup sites have been grouped into the four areas shown in the map above. The top 10 items and percentage of materials for each area are shown in the following graphs and cover the period from October 2012 to March 2013. Further descriptive detail of the effort and logistics involved in these cleanups is available in the activity reports produced by Graham Johnston. These reports date back to the projects beginning and reflect the quantity and volume of debris removed from the river to date and the huge effort provided by the schools and groups engaged by the project.

Although there may be a small amount of marine debris incursion in the lower Hawkesbury this is disregarded as most of the debris is assumed to be sourced from the river surrounds and activities.

Items originating from the oyster farming industry do not show up in the data for the period covered in this summary but do constitute a significant volume of debris over time. Oyster farmers are actively supporting the project in the removal of these items through hire of boats and the volunteering of their time.



Images of aquaculture items collected since March.
The data for these will be included in the June data summary.



Beach Cleanup Data Summary

Hawkesbury River and Brisbane Waters Project to March 2013

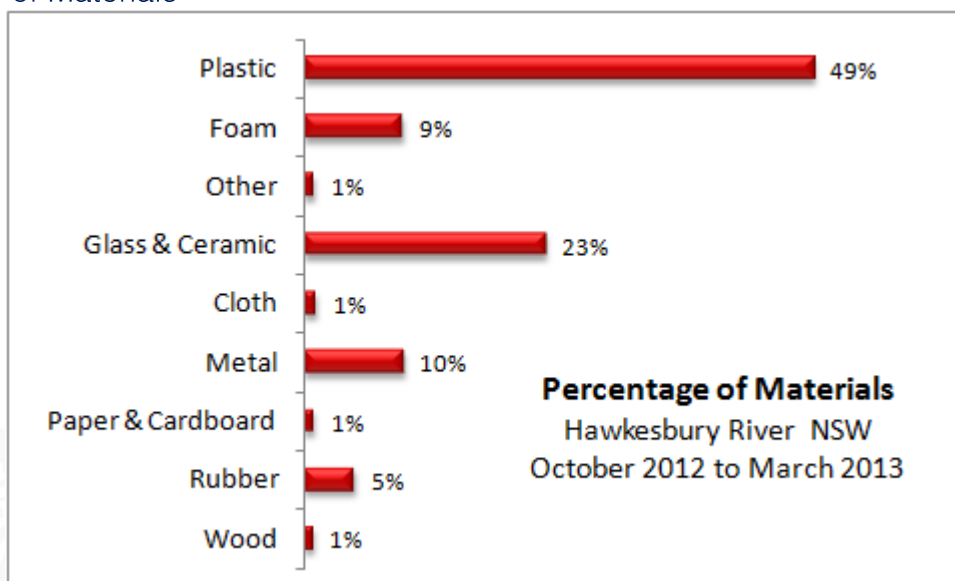
Total Items Collected

Quarter	Oct-Dec2012	Jan-Mar2013	Apr-Jun2013	Jul-Sept2013	Total
Total Items	10958	16719			27677

Top 10 Items



Percentage of Materials



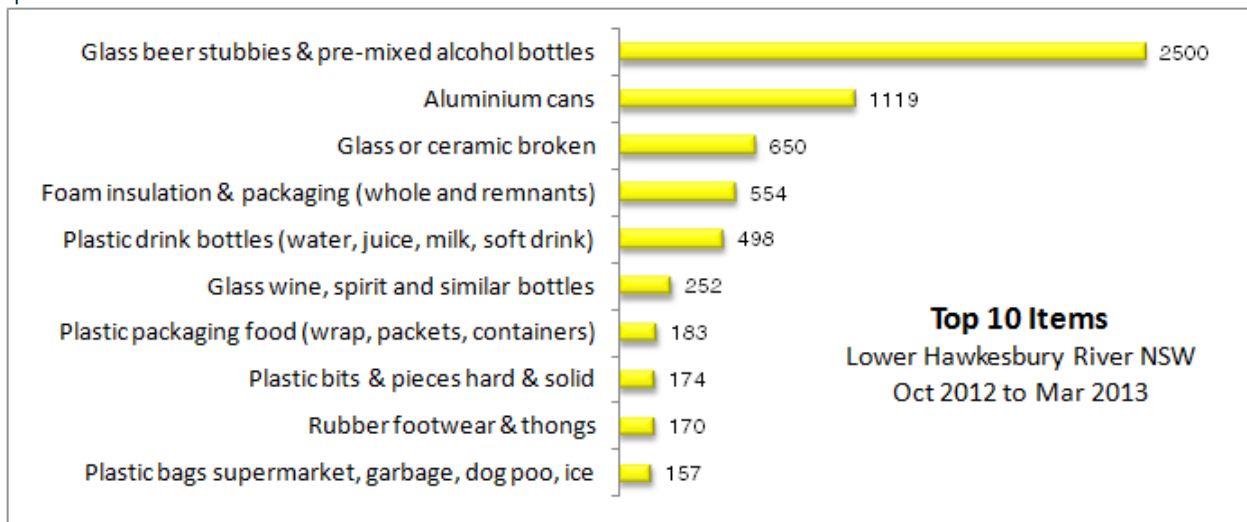


Beach Cleanup Data Summary
Lower Hawkesbury River

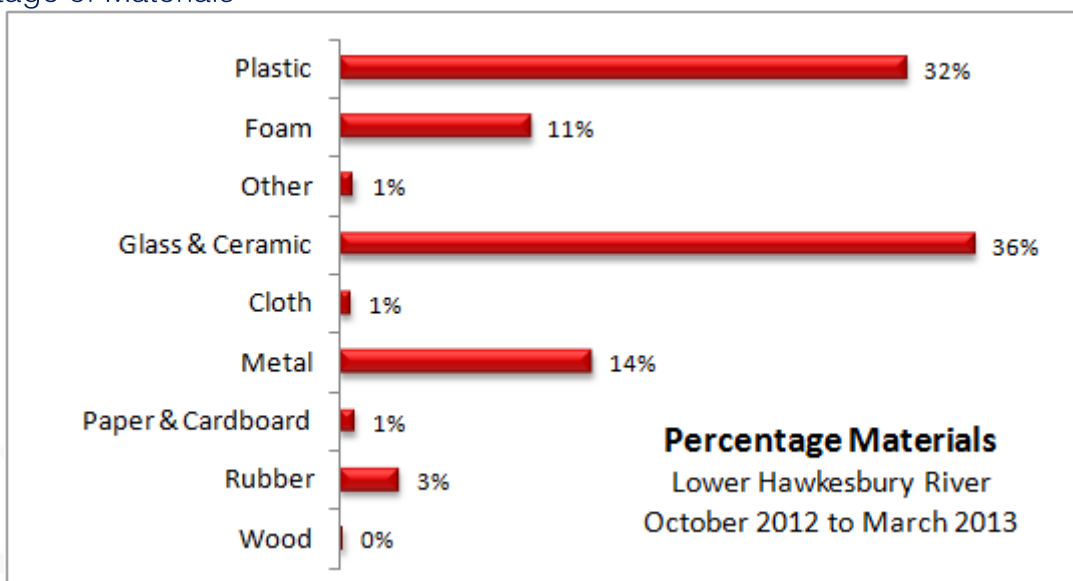
Total Items Collected

Quarter	Oct-Dec2012	Jan-Mar2013	Apr-Jun2013	Jul-Sept2013	Total
Total Items	6136	1315			7451

Top 10 Items



Percentage of Materials



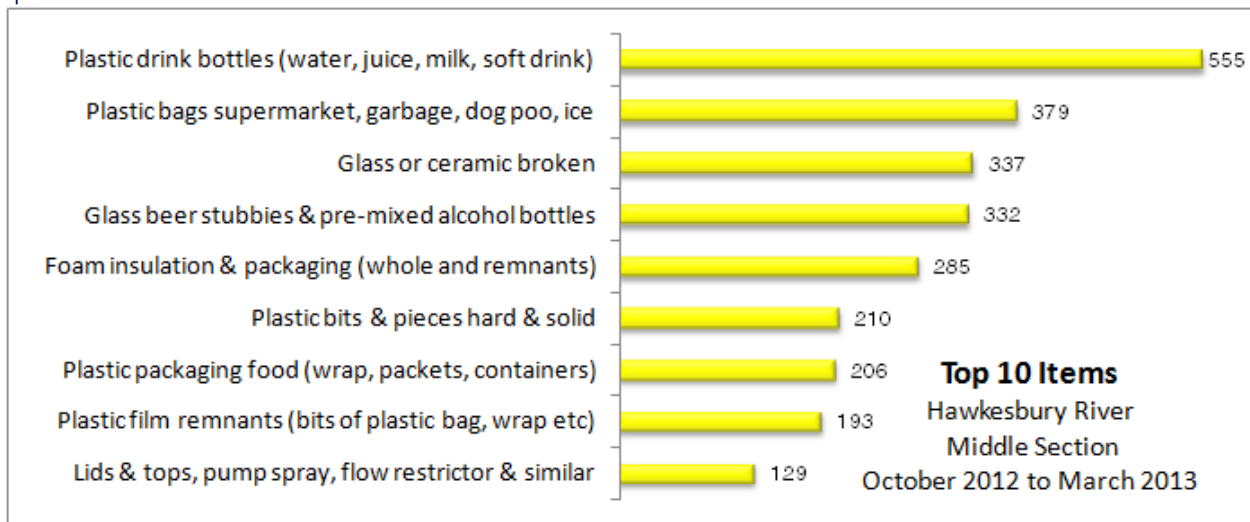


Beach Cleanup Data Summary
Hawkesbury River Middle Section

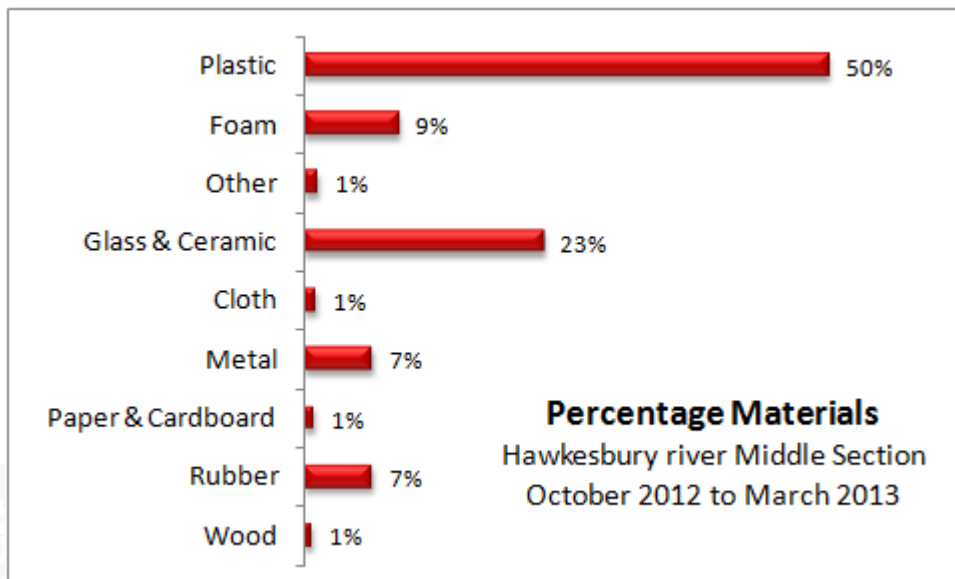
Total Items Collected

Quarter	Oct-Dec2012	Jan-Mar2013	Apr-Jun2013	Jul-Sept2013	Total
Total Items	1983	5096			7079

Top 10 Items



Percentage of Materials



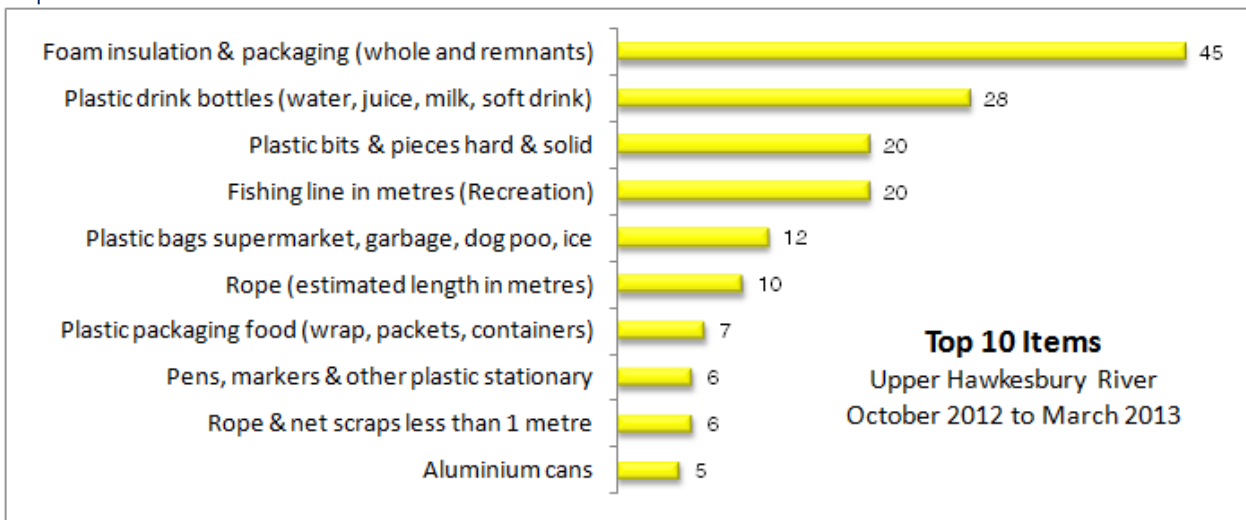


Beach Cleanup Data Summary
Upper Hawkesbury River

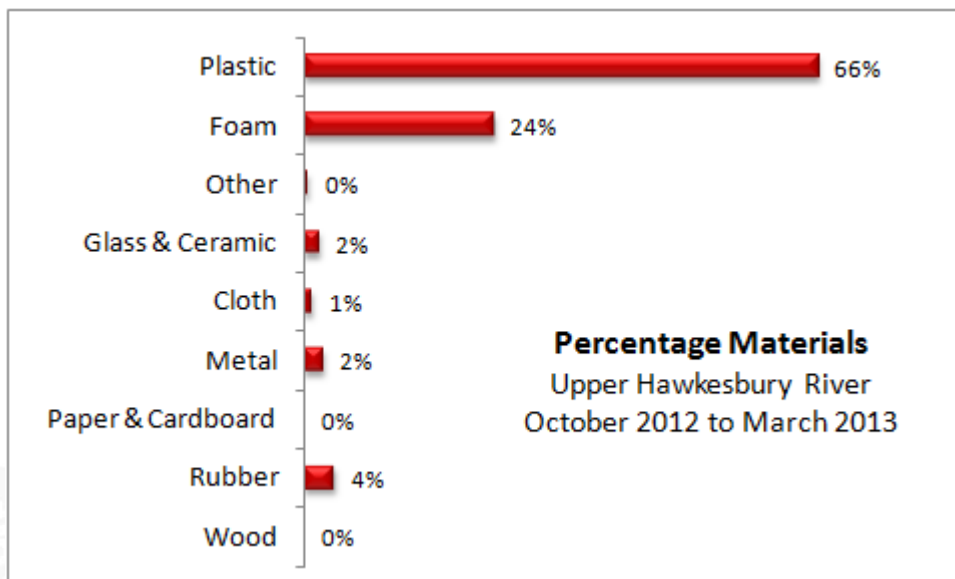
Total Items Collected

Quarter	Oct-Dec2012	Jan-Mar2013	Apr-Jun2013	Jul-Sept2013	Total
Total Items	205				205

Top 10 Items



Percentage of Materials



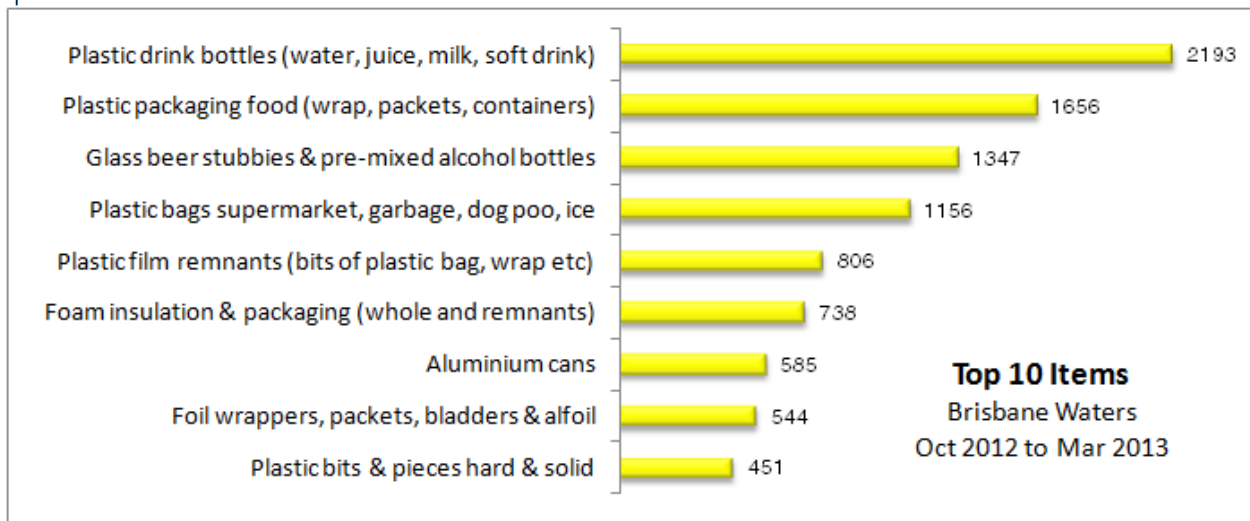


Beach Cleanup Data Summary
Brisbane Waters

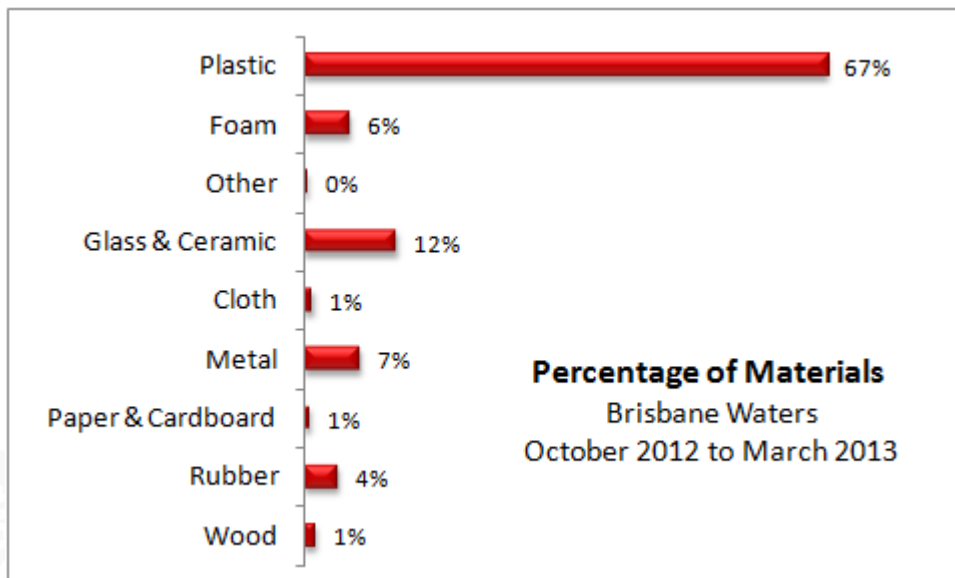
Total Items Collected

Quarter	Oct-Dec2012	Jan-Mar2013	Apr-Jun2013	Jul-Sept2013	Total
Total Items	2634	16394			19028

Top 10 Items



Percentage of Materials





Full List of recorded Items - Hawkesbury River and Brisbane Waters October 2012 to March 2013

Item	Total		Total
Glass beer stubbies & pre-mixed alcohol bottles	4183	Tetra packs & drink cartons	45
Plastic drink bottles (water, juice, milk, soft drink)	3274	Plastic bottles, drums, jerrycans & buckets over 4 litres	45
Plastic packaging food (wrap, packets, containers)	2052	Synthetic cardboard (corflute) signs & packaging	38
Aluminium cans	1833	Personal care & pharmaceutical packaging	35
Plastic bags supermarket, garbage, dog poo, ice	1704	Newspaper, magazines & brochures	34
Foam insulation & packaging (whole and remnants)	1622	Metal Fishing Items (sinkers, lures, hooks, traps, pots)	27
Glass or ceramic broken	1395	Plastic furniture outdoor & camping	27
Plastic film remnants (bits of plastic bag, wrap etc)	1080	Metal scrap & remnants	22
Plastic bits & pieces hard & solid	855	Plastic sheeting (tarpaulin, woven bags, pallet wrap)	16
Lids & tops, pump spray, flow restrictor & similar	644	Tape adhesive, electrical, duct, hazard marker & rolls	15
Foil wrappers, packets, bladders & alfoil	628	Plastic pipe PVC, irrigation & reticulation	15
Foam cups, food packs & trays	608	Toothbrushes, brushes & combs, hair ties etc	12
Glass wine, spirit and similar bottles	563	Wire, metal stakes & pipes	10
Bait & tackle bags & packaging	519	Fishing net over 1 metre in metres	7
Rubber balloons, balls & toys, elastic straps & bands	479	Wooden confection sticks, pencils, matches etc	7
Straws, confection sticks, cups, plates & cutlery	410	Strapping band whole (record as single item)	6
Rubber footwear & thongs	399	Syringes medical	6
Rubber remnants	370	Foam sponge sheeting (mattress & similar)	6
Cigarette butts & filters	343	Remnants burnt plastic	6
Glass jars & sauce bottles	314	Metal building & trades materials, fixings & fittings	6
Wooden Fishing Items	300	Recreation & outdoor equipment	5
Bleach & cleaner bottles	280	Boat parts, wreckage & remnants	5
Toys, party poppers, ribbons, clips & similar	228	Metal marine engine & boat parts & fittings	5
Commercial fishing remnants (float, pot, crate bits)	215	Brooms, brushes & paint brushes	4
Plastic containers non food (oil, sealant, chemical)	215	Metal outdoor equipment, implements, furniture	4
Cloth, clothing, hats & towels	200	Plastic housewares, tablewares, house fittings	4
Tins under 4 litres (food, drink tins and similar)	185	Canvas, sailcloth & hessian materials	3
Cigarette lighters	182	Cylume glow sticks	3
Rope & net scraps less than 1 metre	159	Appliances, electronics & batteries	3
Pens, markers & other plastic stationary	154	Plastic buoys and floats	3
Fishing line in metres (Recreation)	154	Gas & volatile liquid capsules & cans	2
Paper & cardboard packaging	149	Glassware & ceramic items	2
Aerosol cans	138	Plastic vehicle parts	2
Binding, thread, string & cord (natural fibre)	131	Plastic tubes & hoses	2
Processed timber, pallets & other wood	123	Plastic electrical cable, connectors & fittings	2
Bait containers & lids, bait savers	119	Metal drums, cans & buckets over 4 litres	2
Shoes leather & fabric	118	Building & trades materials, fixings & fittings	2
Fibreglass fragments	104	Medical waste	2
Plastic wrap non food (bubble wrap etc)	103	White goods	1



Strapping band scraps	102	Drug paraphernalia	1
Commercial fishing traps, pots & intact parts	97	Fluorescent light tubes and bulbs	1
Metal bottle caps, lids & pull tabs	83	Rubber sheeting	1
Baskets, crates & trays	83	Metal signs and sheeting	1
Recreation fishing items (lures, floats, rods, reels)	71	Plastic gardening items, implements & fittings	1
Rope (estimated length in metres)	69	Plastic oddments	1
Sanitary (tissues, nappies, condoms, cotton buds)	66	Gas bottles	1
Foam buoys		Admin cleanup data not recorded	0
Rubber buffers, tyres, seals & similar	60		
		95	27677

Record of Cleanups and Results

Admin Record - Gosford Shire Sites

Site	Cleanup Date	Total Items	Length of Beach Cleaned	Rangers/ Volunteers	Total Hours
Patonga Creek	18/10/2012	1691	200	26	104
Patonga Creek	26/10/2012	702	40	20	60
Patonga Creek	30/11/2012	2377	10	8	16
Spectacle Island	28/03/2013	379	800	9	31.5
Spectacle Island	21/02/2013	429	800	10	30
Wondabyne Railway Station					
Mullet Creek	15/11/2012	301	300	10	40
Little Wobby	28/11/2012	794	6000	8	28
Ettalong Beach	28/04/2012	359	50	5	0.3
Woy Woy Channel	13/03/2013	1414	400	12	48
Pelican Island	7/12/2012	1217	200	27	67.5
Woy Woy Bay & Pelican Island	27/03/2013	6250	1000	25	125
Pelican Island, Woy Woy Channel & Saratoga Island	14/12/2012	1058	250	10	25
Waterfall Bay	28/02/2013	544	150	10	22.5
Pumpkin Creek Foreshore & Mangroves	17/10/2012	205	600	8	24
Saratoga Island	13/02/2013	869	600	11	55
Mangrove Island, Saratoga Island & Paddy's Channel	28/02/2013	1499	400	25	75
Rileys & Mangrove Island	15/03/2013	2422	400	30	120
Patonga Creek	18/10/2012	1691	200	26	104
Gosford Totals		22510	12200	254	871.8



Admin Record - Hornsby Shire

Site	Cleanup Date	Total Items	Length of Beach Cleaned	Rangers/ Volunteers	Total Hours
Parsley Bay & Cowan Creek	6/03/2013	0*		6	21
Apple Tree Bay to Smiths Creek	14/12/2012	146	8	10	30
Cowan Creek & Jerusalem Bay	30/10/2012	102	6000	8	24
Lower Hawkesbury River & Cowan Creek	4/01/2013	706	15000	11	44
Lower Hawkesbury River & Cowan Creek	24/01/2013	609	850	17	102
Lower Hawkesbury River & Cowan Creek	11/10/2012	650	1200	20	60
Green Point Hawkesbury River	3/12/2012	104	30	10	20
Long Island Hawkesbury River	12/12/2012	174	40	10	40
Sandbrook Channel	26/11/2012	272	400	7	31.5
Kangaroo Point	20/02/2013	799	200	9	9
Southern foreshore freeway bridge to Milson Island	21/03/2013	520	2000	6	24
Pumpkin Point	20/03/2013	279	300	10	40
Upper Berowra Creek Eastern Foreshore	7/11/2012	338	3500	3	9
Lion Island	29/11/2012	468	2000	6	21
Hornsby Totals		5167	31528	136	487.5

Admin Record - Pittwater Shire and Lion Island Nature reserve

Site	Cleanup Date	Total Items	Length of Beach Cleaned	Rangers/ Volunteers	Total Hours
West Head Bays and Beaches	7/03/2013	0*		3	12
Lion Island	29/11/2012	468	2000	6	21
Pittwater, Lion Is Totals		468	2000	9	33
Project Totals to Date		27677	43728	390	1359.3

* Where data is unable to be collected the cleanup is registered and shown as 0 items



Data Summary Record - Sites by Geographical Area

Site	Cleanup Date	Total Items	Weight Kg	Percentage of Plastic*
Brisbane Waters				
Ettalong Beach**	28/04/2012	359		93%
Mangrove Island, Saratoga Island & Paddy's Channel	28/02/2013	1499	250	73%
Pelican Island	7/12/2012	1217	400	48%
Pelican Island, Woy Woy Channel & Saratoga Island	14/12/2012	1058	250	47%
Rileys & Mangrove Island	15/03/2013	2422	2000	68%
Saratoga Island	13/02/2013	869	200	60%
Waterfall Bay	28/02/2013	544	60	73%
Woy Woy Bay & Pelican Island	27/03/2013	6250	2260	70%
Woy Woy Channel	13/03/2013	1414	250	75%
Totals/ Averages		15632	5670	68%
Lower Hawkesbury River				
Apple Tree Bay to Smiths Creek	14/12/2012	146	20	54%
Cowan Creek & Jerusalem Bay	30/10/2012	102	8	34%
Lion Island	29/11/2012	468	100	69%
Lower Hawkesbury River & Cowan Creek	11/10/2012	650	72	70%
Lower Hawkesbury River & Cowan Creek	4/01/2013	706	120	64%
Lower Hawkesbury River & Cowan Creek	24/01/2013	609	90	63%
Parsley Bay & Cowan Creek	6/03/2013	0	220	
Patonga Creek	18/10/2012	1691	288	19%
Patonga Creek	26/10/2012	702	210	12%
Patonga Creek	30/11/2012	2377	500	4%
West Head Bays and Beaches	7/03/2013	0	40	
Totals/ Averages		7451	1668	43%
Hawkesbury River Mid Section				
Green Point Hawkesbury River	3/12/2012	104	100	50%
Kangaroo Point	20/02/2013	799	180	77%
Little Wobby	28/11/2012	794	70	63%
Long Island Hawkesbury River	12/12/2012	174	400	49%
Pumpkin Point	20/03/2013	279	250	71%
Sandbrook Channel	26/11/2012	272	65	42%
Southern foreshore freeway bridge to Milson Island	21/03/2013	520	450	79%
Spectacle Island	21/02/2013	429	400	67%



Spectacle Island	28/03/2013	379	42	76%
Upper Berowra Creek Eastern Foreshore	7/11/2012	338	90	51%
Wondabyne Railway Station Mullet Creek	15/11/2012	301	105	41%
Totals/ Averages		4389	2152	61%
Upper Hawkesbury River				
Pumpkin Creek Foreshore & Mangroves	17/10/2012	205	115	90%
Totals/ Averages		205	115	90%
Project Totals/ Averages to Date		27677	9605	58%

* The plastic percentage figure in this column is the sum of plastic and foam materials

** The Ettalong Beach cleanup was not part of the current project

Participating Community Partners

Brisbane Waters Secondary College
 Father Chris O'Rileys Youth off the Streets
 Graham Johnston Training Services
 Hawkesbury Nepean Catchment Management Authority (HNCMA)
 HNCMA Foreshore Cleanup Program
 MacMasters Surf Lifesaving Club
 Rolland Hassall School Parramatta
 The Coast Christian School
 The Croft Special Education Unit
 The Glen (Aboriginal Men's Health Centre)
 Waratah Special Needs School

Further Information

For further information about your data or information about developing a Community Marine Debris Activity Plan please contact

Heidi Taylor - heidi@tangaroablue.org Wally Smith - wally@tangaroablue.org

<http://www.tangaroablue.org/>

Thank you for your efforts!



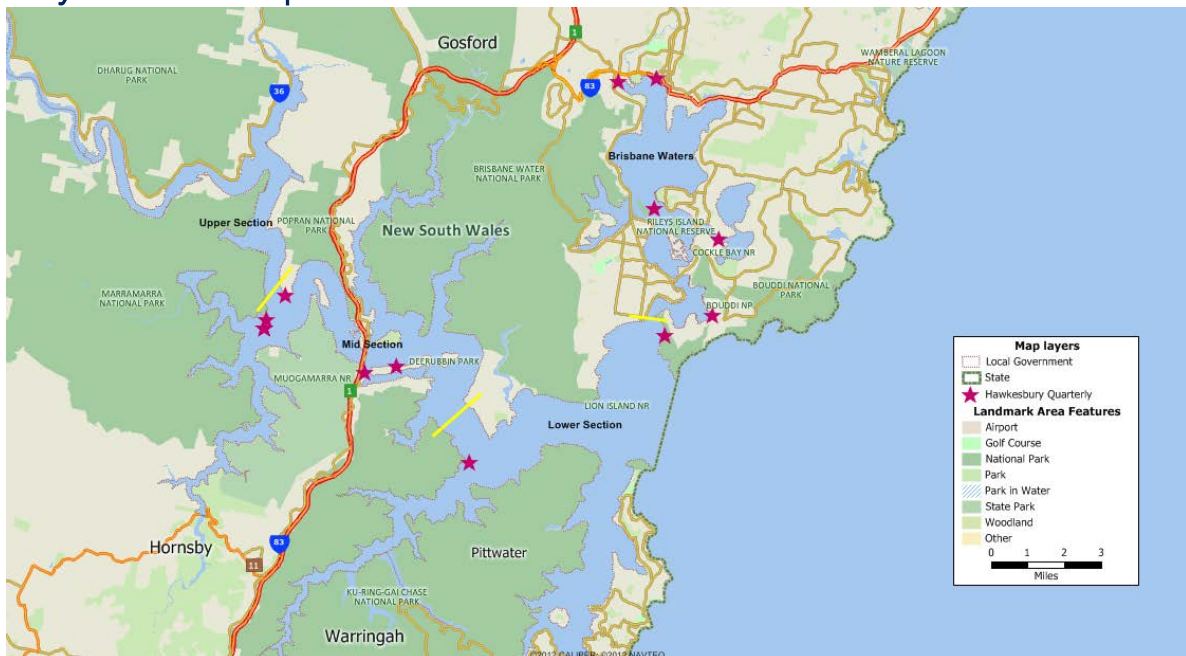
Clean-up Data Summary

Hunter Nepean Catchment Management Authority (HNCMA) Foreshore Cleanup Programme

Activity Details

Timeframe	April to June 2013
Activity Description	Ongoing foreshore clean-ups are conducted in the Hawkesbury and Brisbane Waters system, by school, youth and community organisations.
Data arrangement	For the purpose of this summary the Hawkesbury river below Wisemans Ferry is divided into three sections - lower, mid and upper - with Brisbane waters making up a fourth section.
Stakeholders	Hawkesbury Nepean & Hunter CMA, Fisheries, Hornsby & Gosford Council, Brisbane Waters & Ku-ring-gai Chase National Parks
Coordinator	Graham Johnston 0411184642 jonomacs@bigpond.com
NRM Region	Hawkesbury-Nepean NRM
Shires	Gosford City Council Hornsby Shire Council Pittwater Council
State	NSW

Activity locations April – June 2013



Note: Map points the approximate location of the clean-up runs. Yellow lines indicate the boundaries of the sections of river used for the purposes of this summary.

Comments

The summary is now organised on a monthly basis with comparisons between the current and previous quarters. Plastic packaging – especially plastic drink bottles and food packaging - is showing up as the biggest contributor in terms of the numbers of items collected.



Clean-up Data Summary

Whole of Project Summary April to June 2013

Clean-up totals 2013

	Jan-Mar		Apr-Jun		Jul-Sep		Oct-Dec		River section Totals	
	Items	Clean-ups	Items	Clean-ups	Items	Clean-ups	Items	Clean-ups	Items	Clean-ups
Lower Hawkesbury	1315	4	1388	1					2703	5
Mid Hawkesbury	3159*	6	12855	7					16014	13
Upper Hawkesbury	0	0	0	0					0	0
Brisbane waters	13911	8	15122	9					29033	17
Total for Quarter	18385	18	29365	17	0	0	0	0	47750	35

*This figure has been amended to account for a totalling error in the previous summary

Item Categories – Share of Quarterly Total and Trend for Each Category

Item category	Oct-Dec12	Jan-Mar13	Apr-Jun13	Category Trend
Plastic Consumer Items	3%	6%	7%	
Plastic Packaging Items	15%	41%	36%	
Plastic Fishing Items	5%	6%	14%	
Plastic Remnants	5%	9%	10%	
Plastic Industrial, Commercial, Shipping & Miscellaneous	0%	0%	0%	
Foam Items	7%	9%	11%	
Other Materials	1%	1%	0%	
Glass, Ceramic & Construction Items	42%	12%	11%	
Cloth Items	1%	1%	1%	
Metal Items	16%	7%	4%	
Paper & Cardboard items	1%	1%	0%	
Rubber Items	4%	5%	5%	
Wood items	0%	2%	1%	

Note: Item categories are those used in the arrangement of the Data Sheet and Marine Debris Identification Manual. The above table identifies which categories have the greater share of the total within each quarter. The green trend line gives the trend for each individual category over time. (The trend line is constructed from the actual values. If these values are not enough to register as a percentage the trend is still shown.)

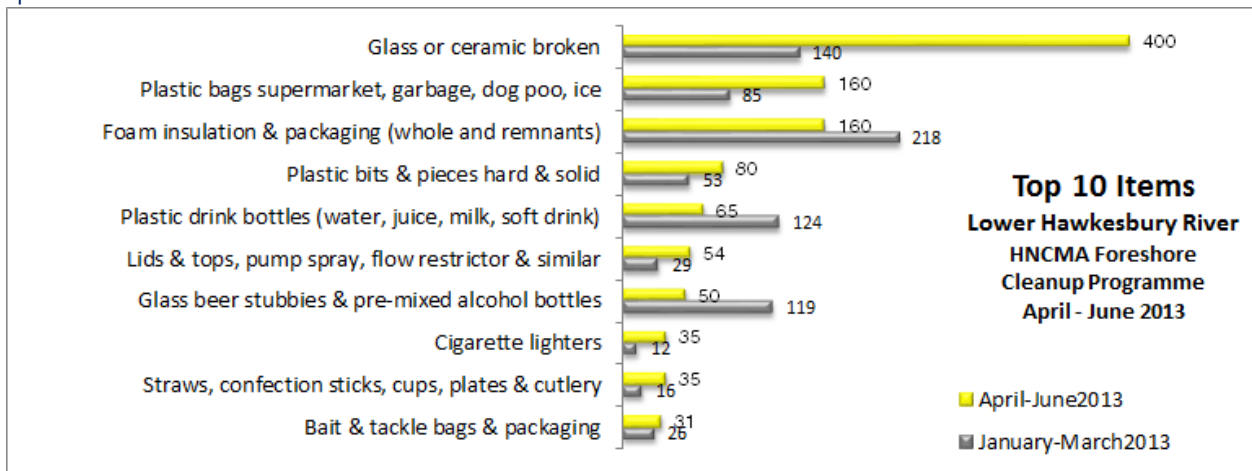


Lower Hawkesbury River

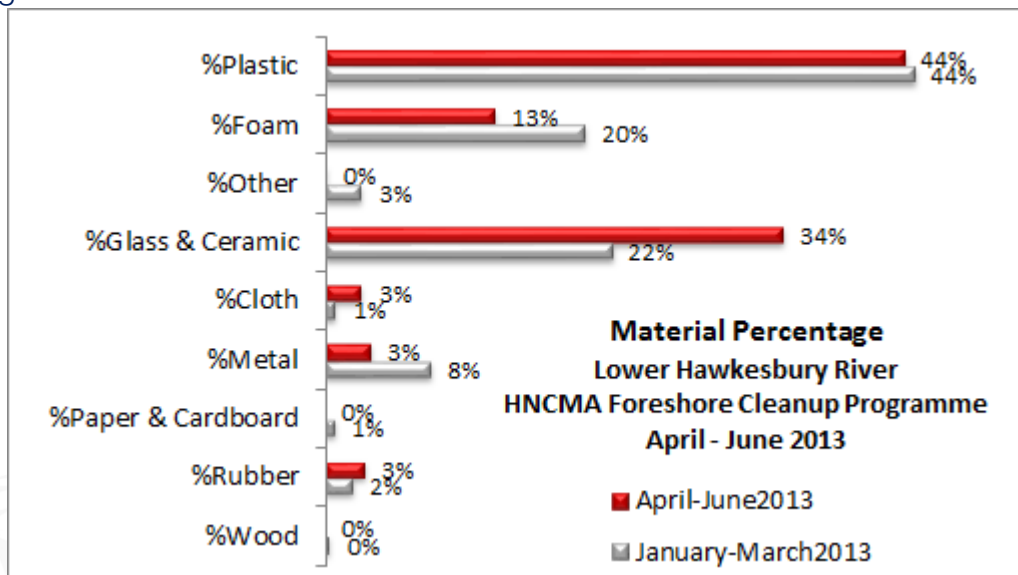
Total Items Collected

Quarter	Jan-Mar2013	Apr-Jun2013	Jul-Sept2013	Oct-Dec2013	Total
Total Items	1315	1388			2703

Top 10 Items



Percentage of Materials



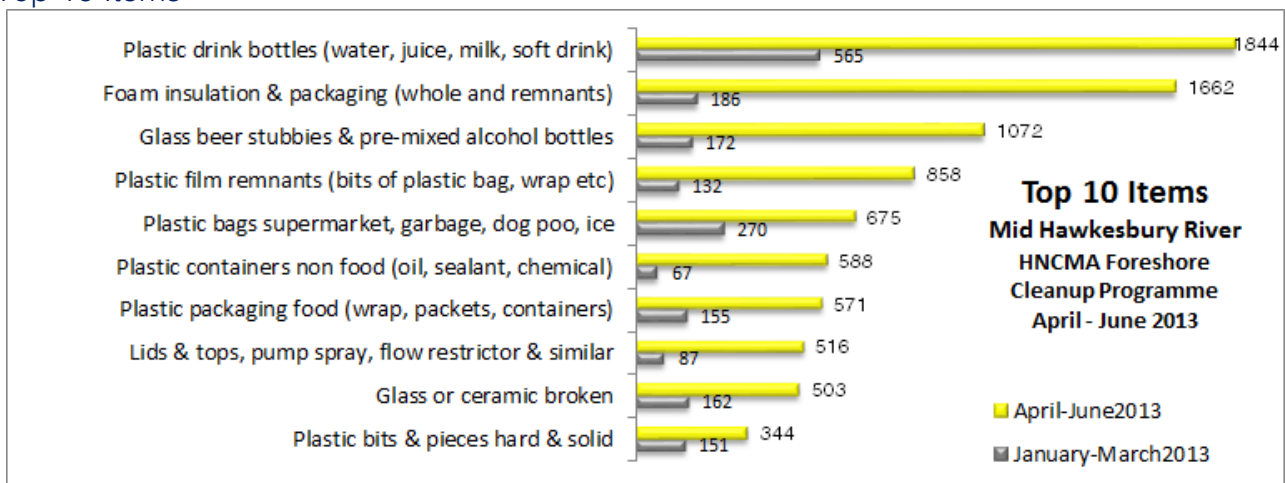


Mid Hawkesbury River

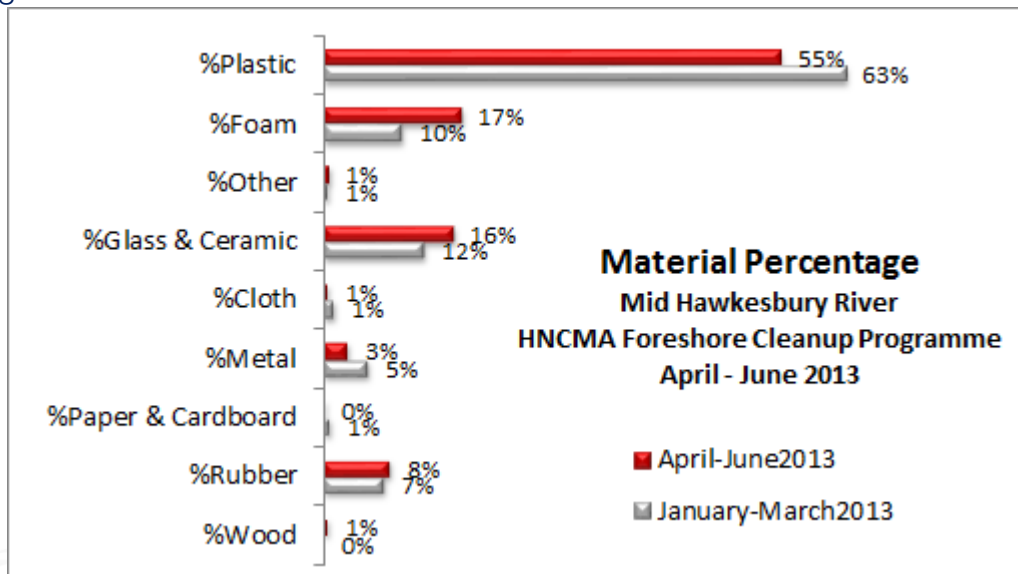
Total Items Collected

Quarter	Jan-Mar2013	Apr-Jun2013	Jul-Sept2013	Oct-Dec2013	Total
Total Items	3159	12855			16014

Top 10 Items



Percentage of Materials



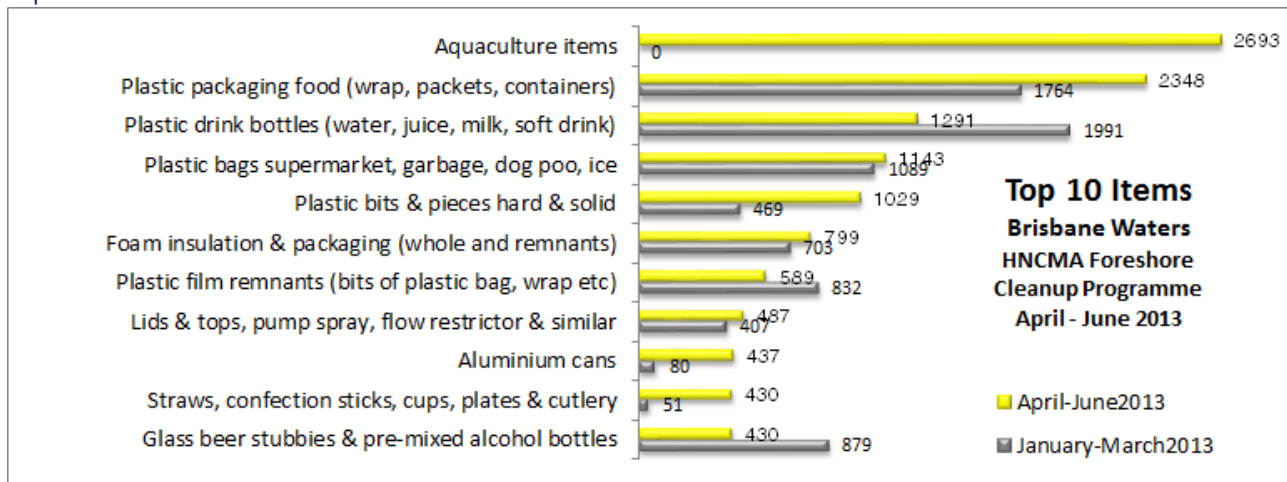


Brisbane Waters

Total Items Collected

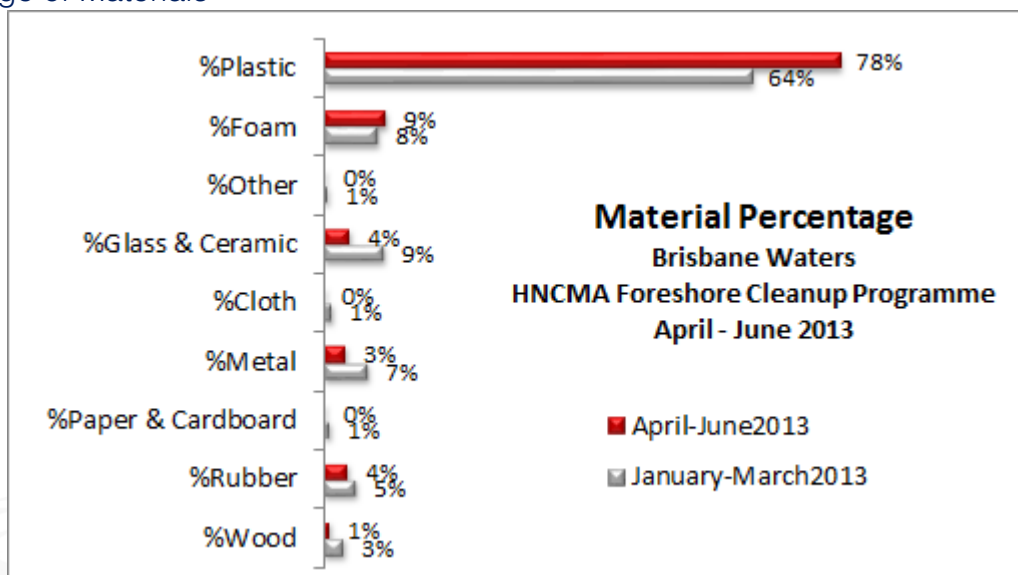
Quarter	Jan-Mar2013	Apr-Jun2013	Jul-Sept2013	Oct-Dec2013	Total
Total Items	13911	15122			29033

Top 10 Items



Note: Aquaculture items are usually stored at or near the site for bulk removal at a later date. Therefore they can appear infrequently but in large numbers in the data.

Percentage of Materials





Full List of recorded Items - Hawkesbury River and Brisbane Waters April to June 2013

Item	Total	Item	Total
Plastic drink bottles (water, juice, milk, soft drink)	3200	Foam buoys	33
Plastic packaging food (wrap, packets, containers)	2943	Cyalume glow sticks	32
Aquaculture items	2694	Wire, metal stakes & pipes	16
Foam insulation & packaging (whole and remnants)	2621	Municipal activities (tree guard, barrier fence etc)	16
Plastic bags supermarket, garbage, dog poo, ice	1978	Strapping band scraps	15
Glass beer stubbies & pre-mixed alcohol bottles	1552	Plastic bottles, drums, jerrycans & buckets over 4 litres	14
Plastic bits & pieces hard & solid	1453	Plastic sheeting (tarpaulin, woven bags, pallet wrap)	13
Plastic film remnants (bits of plastic bag, wrap etc)	1447	Metal bottle caps, lids & pull tabs	13
Glass or ceramic broken	1216	Brooms, brushes & paint brushes	12
Lids & tops, pump spray, flow restrictor & similar	1057	Metal signs and sheeting	12
Aluminium cans	690	Boat parts, wreckage & remnants	10
Rubber balloons, balls & toys, elastic straps & bands	674	Fibreglass fragments	9
Plastic containers non food (oil, sealant, chemical)	645	Foam sponge sheeting (mattress & similar)	8
Straws, confection sticks, cups, plates & cutlery	621	Toothbrushes, brushes & combs, hair ties etc	8
Foam cups, food packs & trays	590	Recreation & outdoor equipment	8
Bait & tackle bags & packaging	572	Syringes medical	7
Rubber remnants	535	Plastic furniture outdoor & camping	7
Cigarette butts & filters	497	Plastic pipe PVC, irrigation & reticulation	6
Toys, party poppers, ribbons, clips & similar	377	Newspaper, magazines & brochures	6
Bait containers & lids, bait savers	351	Tetra packs & drink cartons	6
Cigarette lighters	308	Metal drums, cans & buckets over 4 litres	6
Rubber footwear & thongs	286	Organic materials	5
Plastic wrap non-food (bubble wrap etc)	270	Canvas, sailcloth & hessian materials	5
Glass wine, spirit and similar bottles	248	Remnants burnt plastic	5
Processed timber, pallets & other wood	228	Synthetic cardboard (corflute) signs & packaging	4
Bleach & cleaner bottles	221	Plastic oddments	4



Glass jars & sauce bottles	215	Plastic buoys and floats	3
Personal care & pharmaceutical packaging	174	Mesh bags (vegetable, oyster & mussel bags)	3
Pens, markers & other plastic stationary	143	Wooden confection sticks, pencils, matches etc.	3
Rubber buffers, tyres, seals & similar	116	Carpet & lino household, boat deck & padding	2
Shoes leather & fabric	115	Metal unspecified	2
Cloth, clothing, hats & towels	107	Commercial fishing traps, pots & intact parts	2
Recreation fishing items (lures, floats, rods, reels)	107	Metal bicycle, shopping trolley and similar	2
Foil wrappers, packets, bladders & alfoil	103	Drug paraphernalia	2
Aerosol cans	95	Marine safety, survival & boating equipment	1
Rope & net scraps less than 1 metre	88	Appliances, electronics & batteries	1
Baskets, crates & trays	70	Metal motor vehicle parts & batteries	1
Metal Fishing Items (Sinkers, lures, hooks, traps, pots)	64	Gas bottles	1
Commercial fishing remnants (float, pot, crate bits)	53	Wooden Fishing Items	1
Binding, thread, string & cord (natural fibre)	48	Construction material (brick, cement, pipe)	1
Tins under 4 litres (food, drink tins and similar)	44	Fluorescent light tubes and bulbs	1
Metal scrap & remnants	44	Plastic gardening items, implements & fittings	1
Rope (estimated length in metres)	42	Fishing net over 1 metre in metres	1
Paper & cardboard packaging	41	Medical waste	1
Fishing line in metres (Recreation)	38	Metal outdoor equipment, implements, furniture	1
Metal building & trades materials, fixings & fittings	37	Plastic housewares, tablewares, house fittings	1
Strapping band whole (record as single item)	35	Sanitary (tissues, nappies, condoms, cotton buds)	1
			29365



Record of Clean-ups and Results

Admin Record - Gosford Shire Sites

Site	Clean-up Date	Total Items	Length of Beach Cleaned	Rangers/Volunteers	Total Hours
<i>Hardy's Bay</i>	6/04/2013	708	500	1	2
<i>Gosford Foreshore</i>	7/04/2013	368	100	1	1
<i>Hardy's Bay</i>	8/04/2013	1177	500	1	4
<i>Mangrove Nature Strip, West Gosford</i>	10/04/2013	2172	500	9	16
<i>Pelican Island</i>	11/04/2013	3028	400	10	40
<i>Gosford Foreshore</i>	21/04/2013	238	100	1	1
<i>Tallow Beach</i>	17/05/2013	766	400	8	16
<i>Bar Point</i>	20/05/2013	2088	1000	14	70
<i>Empire Bay Channel</i>	6/06/2013	1452	450	7	21
<i>Pelican Island</i>	18/06/2013	5213	1000	34	102
Gosford Totals	10	17210	4950	86	273

Italicised entries were clean-ups conducted by community volunteers (4) and OCCI (1)

Admin Record - Hornsby Shire Sites

Site	Clean-up Date	Total Items	Length of Beach Cleaned	Rangers/Volunteers	Total Hours
<i>Bar Point & Milson Island</i>	3/04/2013	1058	300	9	36
<i>Bar Point, Bar Island, Merves Wharf, Long Island</i>	8/04/2013	1632	1000	22	110
<i>Sandbrook Channel & South Bank, Long Island</i>	13/05/2013	2708	2000	12	36
<i>Lower Hawkesbury River & Cowan Creek</i>	14/05/2013	1388	600	10	40
<i>Lower Berowra Creek, Bar Island & Fisherman's Point</i>	16/05/2013	3129	400	10	50
<i>Kangaroo Point, Long Island & Little Wobby</i>	29/05/2013	1255	1000	9	36
<i>Fishermans Point</i>	12/06/2013	985	2000	7	19
Hornsby Totals	7	12155	7300	79	327

Project Totals **17** **29365** **12250** **165** **600**



Data Summary Record - Sites by River Section

Site	Clean-up Date	Total Items	Weight Kg	Percentage of Plastic*
Brisbane Waters				
Pelican Island	11/04/2013	3028	1500	97%
Tallow Beach	17/05/2013	766	160	81%
Empire Bay Channel	6/06/2013	1452	80	75%
Pelican Island	18/06/2013	5213	3250	69%
<i>Hardy's Bay</i>	6/04/2013	708	8	90%
<i>Gosford Foreshore</i>	7/04/2013	368		97%
<i>Hardy's Bay</i>	8/04/2013	1177	24.5	93%
<i>Mangrove Nature Strip, West Gosford</i>	10/04/2013	2172	52.25	99%
<i>Gosford Foreshore</i>	21/04/2013	238	5	83%
Totals/ Averages	9	15122	5079.75	87%
<i>Italicised entries were clean-ups conducted by community volunteers (4) and OCCI (1)</i>				
Lower Hawkesbury River				
Lower Hawkesbury River & Cowan Creek	14/05/2013	1388	300	56%
Totals/ Averages	1	1388	300	56%
Hawkesbury River Mid-Section				
Bar Point & Milson Island	3/04/2013	1058	320	56%
Bar Point, Bar Island, Merves Wharf, Long Island	8/04/2013	1632	2500	52%
Sandbrook Channel & South Bank, Long Island	13/05/2013	2708	1000	76%
Lower Berowra Creek, Bar Island & Fisherman's Point	16/05/2013	3129	1150	85%
Bar Point	20/05/2013	2088	835	61%
Kangaroo Point, Long Island & Little Wobby	29/05/2013	1255	70	84%
Fishermans Point	12/06/2013	985	45	87%
Totals/ Averages	7	12855	5920	72%
Upper Hawkesbury River				
No clean-ups this quarter				
Totals/ Averages				
Project Totals/ Averages to Date	17	29365	11299.75	72%

* The plastic percentage figure in this column is the sum of plastic and foam materials



Participating Organisations April – June 2013

With Graham Johnson

Brisbane Waters Secondary College
Dimension Data
Gosford City Council
Graham Johnston Training Services
Hunter - Central Rivers Catchment Management Authority
Lucy Wicks, Liberal Candidate
Macmasters Beach Surf Club
NSW National Parks and Wildlife Service
Rolland Hassall School Parramatta
The Glen (Aboriginal Men's Health Centre)

Other clean-up activity

Community Volunteers
Ocean & Coastal Care Initiatives (OCCI)

Ongoing support

Brisbane Waters National Park
Brisbane Waters Oyster Growers
Gosford City Council
Hornsby Shire Council
Ku-ring-gai Chase National Park
Pittwater Council
Hawkesbury River Oyster Growers
Tangaroa Blue Foundation

Further Information

For further information about your data or information about developing a Community Marine Debris Activity Plan please contact

Heidi Taylor - heidi@tangaroablue.org Wally Smith - wally@tangaroablue.org

<http://www.tangaroablue.org/>

Thank you for your efforts!